

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

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-001-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEX (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cu, Ni, Mn, Hg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3332)	Total Alkalinity and Bicarbonate (5010C)	Carbon Dioxide (5010C)	(RSC-175) Methane	
1	GW001-202	4-16-2020	1231	7				2	1	1*	1	1	1			
2																
3																
4																
5																
6																


COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

TB202- 57

SAMPLER(S): J. Messenger

COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5603

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Joshua Messenger	4-16-2020	1800	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		



225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1925

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-002-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14900

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

ITEM

SAMPLE IDENTIFIER

DATE COLLECTED

TIME COLLECTED

Total Number of bottles

VOCs (8260C)

BTEX (8260C)

ED8 (8260C)

(8011)

Total (AsPb,Ca,K,Mg) (6020A/6010C)

Dissolved Fe, Mn (6010C)

Chloride, bromide, sulfate (300.0)

Nitrate-Nitrite (353.2)

Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)

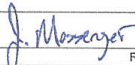
Carbon Dioxide (RSK-175)

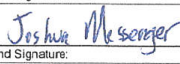
Methane (RSK-175)

COMMENTS

1	GW002-202	4-17-2020	1212	7				2	1	1*	1	1	1				
2	GW002-602	4-17-2020	1212	7				2	1	1*	1	1	1				
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

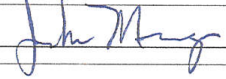
SAMPLER(S):


RELINQUISHED BY:


DATE
4-17-2020

TIME
1600

COURIER AND SHIPPING NUMBER:
FedEx 7702 6243 0562

RECEIVED BY:



DATE
4-17-2020


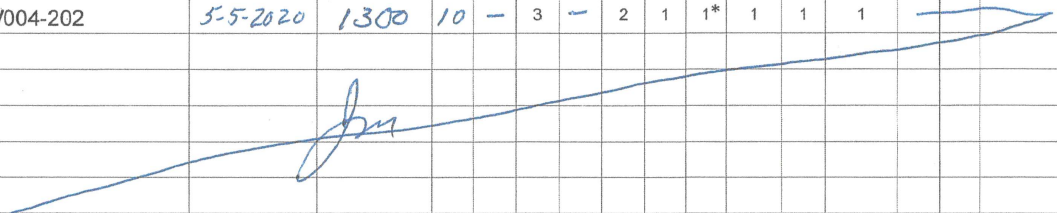
TIME
1600


Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111

E-4-2


September 2020


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-003-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (8SK-175)	Comments
1	GW003-202	4-30-2020	1330	10	—	3	—	2	1	1*	1	1	1		
2	GW003-602	4-30-2020	1330	10	—	3	—	2	1	1*	1	1	1		
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1807B-752 SAMPLER(S): D. Schmeelk															
RELINQUISHED BY:				DATE:				TIME:				COURIER AND SHIPPING NUMBER: FedEx 7703 6032 7081 TB202- 85			
Printed Name and Signature: D. Schmeelk				DATE: 4-30-2020				TIME: 1700				RECEIVED BY:			
Printed Name and Signature:				DATE:				TIME:				RECEIVED BY:			
Printed Name and Signature:				DATE:				TIME:				RECEIVED BY:			
Printed Name and Signature:				DATE:				TIME:				RECEIVED BY:			


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-004-202</div>			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	ED8	Total (As, Pb, Cd, Cu, Ni, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide (SM2320B)	RSK-175 Methane	COMMENTS
1	GW004-202	5-5-2020	1300	10	-	3	-	2	1	1*	1	1	1		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
<div style="text-align: center;"> <p><i>Pump: 1807B-752</i></p> <p style="text-align: right;">TB202- <i>88</i></p> </div>															
SAMPLER(S): <i>D. Schmeck</i>								COURIER AND SHIPPING NUMBER: FedEx <i>7703 9357 1105</i>							
RELINQUISHED BY:								RECEIVED BY:							
DATE: 5-5-2020 TIME: 1600															
Printed Name and Signature: <i>Dylan Schmeck</i>								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

 <div>225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 594-7000 Fax No. (410) 771-1625</div>		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-005-202					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)			
ANALYSIS REQUIRED (Specify number of bottles)														COMMENTS			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As,Pb,Ca,K,Mg,Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)			Methane (RSK-175)	(RSK-175)
1	GW005-202	4-16-2020	1041	24	9	6	3	3*	1	1	1					Please see Comments for requested MS/MSD analytes	
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe																	
SAMPLER(S): J. Messenger										COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5717							
RELINQUISHED BY:										RECEIVED BY:							
DATE										DATE							
TIME										TIME							
Printed Name and Signature: Joshua Messenger John Meyer										Printed Name and Signature:							
4-16-2020 1900																	
Printed Name and Signature:										Printed Name and Signature:							
Printed Name and Signature:										Printed Name and Signature:							

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-006-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)								
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS			
					VOCs	(8260C) BTEX	(8260C) BTEXN	ED8	(8011)	Total (As, Pb, Cd, Cu, Ni, Mn)	(6020A/6010C) Dissolved Fe, Mn	(6010C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(333.2) Alkalinity (Total, Carbonate, and Bicarbonate)		(SM/220B) Carbon Dioxide	(RSK-175) Methane	(RSK-175)
1	GW006-202	4-24-2020	0908	10	-	3	-	2	1	1*	1	1	1					
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
<p>Pump SN# 1808-402</p> <p>7702 4271 7138 TB202- 77</p> <p>SAMPLER(S): D. Schneelk</p> <p>COURIER AND SHIPPING NUMBER: FedEx 7702 4271 7138</p> <p>RELINQUISHED BY: DATE: 4-24-2020 TIME: 1630</p> <p>RECEIVED BY: DATE: TIME:</p> <p>Printed Name and Signature: D. Schneelk</p> <p>Printed Name and Signature:</p> <p>Printed Name and Signature:</p> <p>Printed Name and Signature:</p>																		

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-007-202</div>										
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)										
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258														
ANALYSIS REQUIRED (Specify number of bottles)																						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDS (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	(6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS					
1	GW007-202	4-24-2020	1228	7				2	1	1*	1	1	1									
2																						
3																						
4																						
5																						
6																						
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered <div style="text-align: center; font-size: 1.2em;">pump: 18076-752</div> <div style="text-align: right; font-size: 1.2em;">7702 4271 7403 TB202-76</div>																						
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx <i>7702 4270 3922-X</i>																		
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:											DATE		TIME	
Printed Name and Signature: <i>Joshua Messenger</i>				DATE: <i>4-24-2020</i>		TIME: <i>1630</i>		Printed Name and Signature:											DATE:		TIME:	
Printed Name and Signature:				DATE:		TIME:		Printed Name and Signature:											DATE:		TIME:	
Printed Name and Signature:				DATE:		TIME:		Printed Name and Signature:											DATE:		TIME:	

		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-008-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)						
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258														
ANALYSIS REQUIRED (Specify number of bottles)														COMMENTS		
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	8TEX (8260C)	8TEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			Carbon Dioxide (RSC-175)
1	GW008-202	04-16-2020	1110	10	-	3	-	2	1	1*	1	1	1			
2	GW008-602	04-16-2020	1110	10	-	3	-	2	1	1*	1	1	1			
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
TB202-58																
SAMPLER(S): <i>G. Begaye</i>				COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5934												
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME					
Printed Name and Signature: <i>Galveston Begaye</i>				4-16-2020	1900	Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:										



225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 594-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-009-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Mn, Mg) (6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (PSC-175)	Methane (PSC-175)	
1	GW009-202	4-16-2020	1141	10	-	3	-	2	1	1*	1	1	1				
2	GW009-602	4-16-2020	1141	10	-	3	-	2	1	1*	1	1	1				
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered


SAMPLER(S): J. Messenger

COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5577

TB202-53

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Joshua Messenger John Messenger	4-16-2020	1900	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		

EA [®]		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-010-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)					
PROJECT SITE AND PHASE: ST 106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	ED8 (8011)	Total (As, Pb, Cd, Ni, Mn, Mg) (6010C)	Dissolved Fe, Mn (6020A/6010C)	(6010C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite (3532)	Alkalinity (Total Carbonate and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS	
1	GW010-202	4-24-2020	1321	10	-	3	-	2	1	1*	1	1	1				
2	GW010-602	4-24-2020	1321	10	-	3	-	2	1	1*	1	1	1				
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
<div style="display: flex; justify-content: space-between;"> <div> <p>Pump SN # 1808-402</p> <p>SAMPLER(S): <u>D. Schmeelk</u></p> <p>RELINQUISHED BY: <u>D. Schmeelk</u> <i>[Signature]</i></p> <p>Printed Name and Signature: <u>D. Schmeelk</u> <i>[Signature]</i></p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p> </div> <div> <p>7702 4271 7675 TB202- 78</p> <p>COURIER AND SHIPPING NUMBER: FedEx <u>7702 4270 4311</u> <i>[Signature]</i></p> <p>RECEIVED BY: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p> </div> </div>																	



225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
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PROJECT NAME:
Kirtland AFB Bulk Fuels
Facility

PROJECT NUMBER:
62599DM01

PROJECT SITE AND PHASE:
ST106/SS111

CHAIN-OF-CUSTODY RECORD

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

Lab PO Number: 14800

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

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

COC NUMBER
COC-011-202

YEAR: 2020

QUARTER: 2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
					VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cu, Ni, Mn, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)			
1	GW011-202	4-17-2020	1113	10	-	3	-	2	1	1*	1	1	1					
2																		
3																		
4																		
5																		
6																		

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

TB202-64

SAMPLER(S): J. Messenger

RELINQUISHED BY: J. Messenger

DATE: 4-17-2020

TIME: 1600

COURIER AND SHIPPING NUMBER: FedEx 7702 6243 0573

RECEIVED BY:

DATE:


TIME:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-012R-202

YEAR: 2020
QUARTER: 2 (Apr-Jun)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, Ni, Mn, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (TSK-173)	Methane (TSK-173)		
1	GW012R-202	4-23-2020	1357	24	-	9	-	6	3	3*	1	1	1		Please see Comments for requested MS/MSD analytes		
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please run MS/MSD on the following analytes only:
VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe

Pump: 1807B-752

TB202- 73

SAMPLER(S): J. Messenger

COURIER AND SHIPPING NUMBER: FedEx 7702 4270 3646

RELINQUISHED BY: DATE TIME


RECEIVED BY: DATE TIME

Printed Name and Signature: Joshua Messenger John M... 4-23-2020 1730

Printed Name and Signature:


Printed Name and Signature:

Printed Name and Signature:

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-013-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258										
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) ED8	Total (As, Pb, Cu, K, Na, Mg)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide (SM2320B)	(856-175) Methane	COMMENTS
1	GW013-202	5-1-2020	1221	10	-	3	-	2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
<div style="display: flex; justify-content: space-between;"> <div> <p>Pump SN: 1807B-752</p> <p>SAMPLER(S): D. Schmeelk</p> </div> <div> <p>COURIER AND SHIPPING NUMBER: FedEx 7703 6563 8571</p> </div> <div> <p>TB202-86</p> </div> </div>																
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME					
Printed Name and Signature:						Printed Name and Signature:										
D. Schmeelk, [Signature]				5-1-2020 1700												
Printed Name and Signature:						Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:										

EA [®]		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-014-202									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)											
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS									
				Total Number of Bottles	VOCs	(8260C)	BTEX	(8260C)	ED8	(8260C)	Dissolved Fe, Mn	(6020A/6010C)	Total (As, Pb, Cd, Ni, Hg)		Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	Carbon Dioxide	(RSK-175)	Methane
1	GW014-202	4-24-2020	1111	10	-	3	-	2	1	1*	1	1	1										
2																							
3																							
4																							
5																							
6																							
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																							
Pump SN# 1808-402 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk DATE: 4-24-2020 TIME: 1630 COURIER AND SHIPPING NUMBER: FedEx 7702 4271 7138 TB202- 77 RECEIVED BY: 7702 4270 3830 X PRINTED NAME AND SIGNATURE: D. Schmeelk DATE: 4-24-2020 TIME: 1630																							

Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-016-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS							
				Total Number of Bottles	VOCs	81EX	(8260C)	81EYN	(8260C)	ED8	(8011)	Total (As Pb, Ca, K, Na, Mg)	(6020A/6010C)	Dissolved Fe, Mn	(6010C)	Chloride, bromide, sulfate		(300.0)	Nitrate-Nitrite	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	Carbon Dioxide	(RSK-175)
1	GW016-202	4-17-2020	1333	7							2	1	1*	1	1			1						
2																								
3																								
4																								
5																								
6																								

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
J. Messenger

RELINQUISHED BY:
Joshua Messenger

DATE
4-17-2020


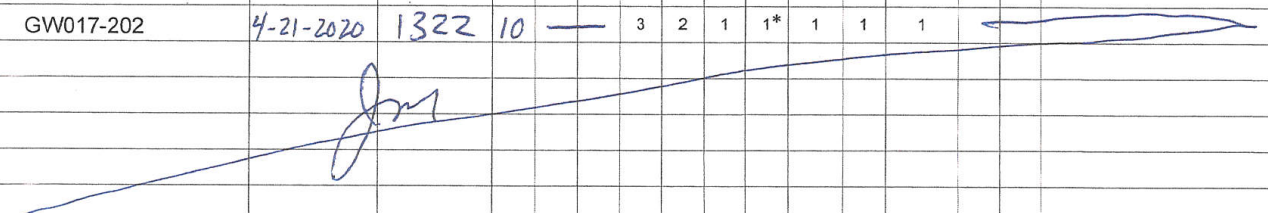
TIME
1600

COURIER AND SHIPPING NUMBER:
FedEx 7702 6243 0573

RECEIVED BY:


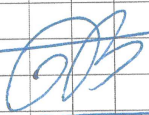

DATE


TIME

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <b style="background-color: yellow;">COC-017-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lemond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						QUARTER: 2 (Apr-Jun)			
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Cd, Ni, Mn) (6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	COMMENTS	
1	GW017-202	4-21-2020	1322	10	—	3	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>J. Messenger</i>								COURIER AND SHIPPING NUMBER: FedEx 7702 4267 4360							
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Joshua Messenger</i>				DATE: <i>4-21-2020</i>		TIME: <i>1700</i>		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							


EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-018-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)				
				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8260C)	81EX (8260C)	81EXN (8260C)	ED8 (8011)	Total (As, Pb, Ca, K, Na, Mg) (8020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3532)	(300.0)		Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320)	Carbon Dioxide (RSK-175)
1	GW018-202	5-8-2020	1625	10	—	3	2	1	1*	1	1	1				
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
<p>Pump SN: 1808-402</p> <p>SAMPLER(S): D. Schneelk</p> <p>RELINQUISHED BY: <i>[Signature]</i> DATE: 5-8-2020 TIME: 1830</p> <p>COURIER AND SHIPPING NUMBER: FedEx 7704 2395 7755 TB202- 90</p> <p>RECEIVED BY: <i>[Signature]</i> DATE: TIME:</p> <p>Printed Name and Signature: DATE: TIME:</p> <p>Printed Name and Signature: DATE: TIME:</p> <p>Printed Name and Signature: DATE: TIME:</p> <p>Printed Name and Signature: DATE: TIME:</p>																

EA [®]		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1525		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-019-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)					
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2280C)	BTEX (2290C)	EDB (9011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Total Carbonate and Bicarbonate (5M/220B)	Alkalinity (RSK-175)	Carbon Dioxide (RSK-175)	Comments
1	GW019-202	4-23-2020	1407	7			2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
<p>Pump SN # 1808402</p> <p>SAMPLER(S): D. Schmeelk</p> <p>COURIER AND SHIPPING NUMBER: FedEx 7702 4269 0425</p> <p>RELINQUISHED BY: D. Schmeelk DATE: 4-23-2020 TIME: 1730</p> <p>RECEIVED BY: _____ DATE: _____ TIME: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p>															

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625										CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility										PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111										Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)			
ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Total Carbonate, and Bicarbonate (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS					
1	GW020-202	04-28-2020	1027	7	—	—	—	2	1	1*	1	1	1	—	—	 04-28-2020					
2																					
3																					
4																					
5																					
6																					
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Pump SN: 1808-402 TB202- 80																					
SAMPLER(S): Galveston Begaye										COURIER AND SHIPPING NUMBER: FedEx 7702 4270 3830											
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:			DATE		TIME		
Printed Name and Signature: Galveston Begaye 										4/28/2020		1700		Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-021-202													
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020													
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)															
				ANALYSIS REQUIRED (Specify number of bottles)																					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(826C)	BTEXN	(826C)	EDB	Total (As, Pb, Cd, Ni, Mn)	Dissolved Fe, Mn	(6010C)	Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	Carbon Dioxide	(RSK-175)	Methane	(RSK-175)	COMMENTS	
1	GW021-202	04-06-2020	1525	7	—	—	—	—	—	2	1	1*	1	1	1	1	1	1	1	1	1	1	1	1	
2																									
3																									
4		04-06-2020																							
5																									
6																									
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																									
SAMPLER(S): <i>G. Begay</i>												COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9850													
RELINQUISHED BY:												RECEIVED BY:													
DATE: 4-6-2020 TIME: 1700												DATE: TIME:													
Printed Name and Signature: <i>Galveston Begay</i>												Printed Name and Signature:													
Printed Name and Signature:												Printed Name and Signature:													
Printed Name and Signature:												Printed Name and Signature:													
Printed Name and Signature:												Printed Name and Signature:													

Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-023-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

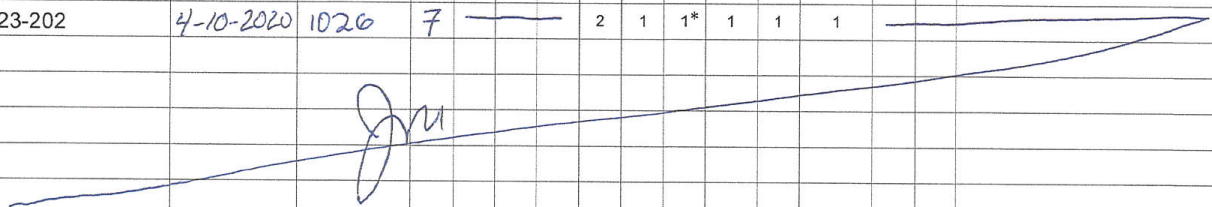
PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800


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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

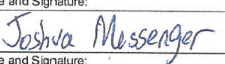
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8250C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW023-202	4-10-2020	1026	7				2	1	1*	1	1	1			
2																
3																
4																
5																
6																


COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):


COURIER AND SHIPPING NUMBER:
FedEx 7702 1539 7623

TB202-46

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature:  Joshua Messenger	4-10-2020	1400	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		



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

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

PROJECT SITE AND PHASE:
ST106/SS111

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

Lab PO Number: 14800

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

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

COC NUMBER
COC-024-202

YEAR: 2020

QUARTER: 2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs	BTEX	BTEXN	(8260C)	ED8	Total (As, Pb, Cd, K, Na, Mg) (8011)	Dissolved Fe, Mn (6020A/6010C)	(6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (352.2)	Carbon Dioxide (SM2320B) (RSK-175)	
1	GW024-202	4-20-2020	1111	7					2	1	1*	1	1	1			
2																	
3																	
4																	
5																	
6																	


COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *J. Messenger*

COURIER AND SHIPPING NUMBER: FedEx 7702 4265 7882

TB202- 65

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
<i>Joshua Messenger</i>	4-20-2020	1530			



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-026-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
					VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total (As,Pb,Ca,K,Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW026-202	4-10-2020	0755	7				2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): J. Messenger

COURIER AND SHIPPING NUMBER: FedEx 7702 1539 7623

RELINQUISHED BY: Joshua Messenger

DATE: 4-10-2020

TIME: 1400

RECEIVED BY:

DATE:

TIME:


Printed Name and Signature: Joshua Messenger


Printed Name and Signature:


Printed Name and Signature:


Printed Name and Signature:

Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111


		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1925		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-028-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST 106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)						
LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity, Carbonate, and Bicarbonate (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS	
1	GW028-202	04-10-2020	0810	10	-	3	-	2	1	1*	1	1	1			
2	GW028-602	04-10-2020	0810	10	-	3	-	2	1	1*	1	1	1			
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Bege</i>																
COURIER AND SHIPPING NUMBER: FedEx <i>7702 1539 7200</i> <i>8332</i> TB202- <i>51</i>																
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME					
Printed Name and Signature: <i>Gabe Bege</i>				4-10-2020	1400	Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:										

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-029-202														
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)														
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																		
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS										
				Total Number of Bottles	VOCs	BTEX	(B260C)	BTEXN	(B260C)	ED8	Total (As, Pb, Cd, Ni, Mn, Mg)	Dissolved Fe, Mn	(6020A/6010C)	(6010C)	Chloride, bromide, sulfate		(3000)	Nitrate-Nitrite	(353.2)	(Total Carbonate, and Bicarbonate)	Carbon Dioxide	(51623208)	Alkalinity	(RSK-175)	Methane	(RSK-175)
1	GW029-202	04-06-2020	1410	7						2	1	1*	1	1	1											
2																										
3																										
4																										
5																										
6																										
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																										
SAMPLER(S): <i>G. Begaye</i>														COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9850												
RELINQUISHED BY: <i>G. Begaye</i>														RECEIVED BY:												
Printed Name and Signature: <i>Galveston Begaye</i>														Printed Name and Signature:												
Printed Name and Signature:														Printed Name and Signature:												
Printed Name and Signature:														Printed Name and Signature:												
Printed Name and Signature:														Printed Name and Signature:												


 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1925		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-030-202					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)					
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS		
				Total Number of Bottles	VOCS (8260C)	81EX (8260C)	81EXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Mn) (6010C) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total Carbonate and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)		Methane (RSK-175)	
1	GW030-202	04-06-2020	1335	7					2	1	1*	1	1	1			
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
<div style="text-align: right;">TB202- 08</div>																	
SAMPLER(S): <i>G. Begaye</i>								COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7878									
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME			
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME			
<i>Galveston Begaye</i>				4-6-2020		1700											
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME			
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME			

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-031-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						QUARTER: 2 (Apr-Jun)			
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) BTEX (8260C) BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Na, Mg) (6020A/6010C) (3532)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5423208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS	
1	GW031-202	04-06-2020	1305	7	—	2	1	1*	1	1	1				
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
<div style="text-align: right;">TB202-08</div>															
SAMPLER(S): <i>G. Begeye</i>					COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7878										
RELINQUISHED BY:					DATE					TIME					
Printed Name and Signature: <i>Galveston Begeye</i>					DATE: <i>4-6-2020</i>					TIME: <i>1700</i>					
Printed Name and Signature:					DATE:					TIME:					
Printed Name and Signature:					DATE:					TIME:					
Printed Name and Signature:					DATE:					TIME:					


EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-032-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)						
						LAB CONTACT: Kay Hower KayHower@eurofinsUS.com				Eurofins 1 (717) 556-7258						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of bottles	VOCs (8280C)	BTEX (8280C)	EDB (8280C)	Total As,Pb,Ca,K,Mg,Mn (6011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)	
1	GW032-202	04-08-2020	0830	15				6	3	3*	1	1	1		Please see Comments for requested MS/MSD analytes	
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe																
SAMPLER(S): <i>G-Begaye</i>				RELINQUISHED BY:				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9621				TB202- 33				
Printed Name and Signature:				DATE				TIME				RECEIVED BY:				
<i>Galveston Begaye</i>				4-8-2020				1700								
Printed Name and Signature:																
Printed Name and Signature:																
Printed Name and Signature:																


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-033-202									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEN (8260C)	EDB (8011)	Disinfectant Fe, Mn (6020A/6010C) Total (As, Pb, Cd, Cr, Ni, Mn, Ag)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM2320B)	(RSK-175) Methane (RSK-175)	COMMENTS	
1	GW033-202	04-08-2020	0905	7			2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G-Begaye</i>				RELINQUISHED BY:				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9920				TB202-34			
DATE:				TIME:				RECEIVED BY:				DATE:		TIME:	
Printed Name and Signature: <i>Galeton Begaye</i>				DATE: 4-8-2020				TIME: 1700							
Printed Name and Signature:															
Printed Name and Signature:															
Printed Name and Signature:															

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-034-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)						
						LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW034-202	04-08-2020	0925	7	—	—	—	2	1	1*	1	1	1	—		
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
<div> <div> SAMPLER(S): <i>G. Begaye</i> </div> <div> RELINQUISHED BY: <i>G. Begaye</i> </div> <div> DATE: <i>4-8-2020</i> </div> <div> TIME: <i>1700</i> </div> </div> <div> COURIER AND SHIPPING NUMBER: <i>FedEx 8137 2565 9920</i> </div> <div> RECEIVED BY: </div> <div> DATE: </div> <div> TIME: </div>																

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-035-202						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS	
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)			
1	GW035-202	04-08-2020	1300	7	—				2	1	1*	1	1	1				
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 8137 2505^{D3} 9643								
RELINQUISHED BY:										RECEIVED BY:								
DATE:										DATE:								
TIME:										TIME:								
Printed Name and Signature: <i>Galveston Begaye</i>										Printed Name and Signature:								
DATE: <i>4-8-2020</i>										DATE:								
TIME: <i>1700</i>										TIME:								
Printed Name and Signature:										Printed Name and Signature:								
Printed Name and Signature:										Printed Name and Signature:								
Printed Name and Signature:										Printed Name and Signature:								


EA [®]		225 Schilling Circle Suite 400 Hunt Valley MD Tel No (410) 584-7000 Fax No (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-036-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/IEDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/IEDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)							
				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS	
				Total Number of Bottles	VOCs	BTEX	ED8	ED11	Total (As, Pb, Cd, Cu, Ni, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	(RSC-175)		Methane
1	GW036-202	04-08-2020	1235	7				2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
<div style="display: flex; justify-content: space-between;"> <div> SAMPLER(S): <i>G. Begaye</i> RELINQUISHED BY: <i>Gabeon Begaye</i> <i>[Signature]</i> 4-8-2020 1700 </div> <div> COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9643 RECEIVED BY: <i>[Signature]</i> </div> </div>																	
<div style="display: flex; justify-content: space-between;"> <div> Printed Name and Signature: Printed Name and Signature: Printed Name and Signature: Printed Name and Signature: </div> <div> DATE DATE DATE DATE </div> <div> TIME TIME TIME TIME </div> </div>																	

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-037-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7259										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8280C)	BTEX (8280C)	BTXN (8260C)	EDB (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM2320B)	(RSC-175) Methane (RSC-175)	(RSC-175)	
1	GW037-202	04-08-2020	1200	7	—	—	—	2	1	1*	1	1	1	—	—	
2	GW037-602	04-08-2020	1200	7	—	—	—	2	1	1*	1	1	1	—	—	
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>ABegaye</i>								COURIER AND SHIPPING NUMBER: FedEx 81372565 9632								
RELINQUISHED BY:								RECEIVED BY:								
DATE:								DATE:								
TIME:								TIME:								
Printed Name and Signature: <i>Galveston Begaye</i>								Printed Name and Signature:								
DATE: 4-8-2020								DATE:								
TIME: 1700								TIME:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								

CHAIN-OF-CUSTODY RECORD										COC NUMBER					
										COC-038-202					
 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@east.com EA Amanda Smith: asmith@east.com EA		YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@east.com EA		QUARTER: 2 (Apr-Jun)							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Cd, Ni, Mn, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW038-202	4-22-2020	1147	24	—	9	6	3	3*	1	1	1	—	—	Please see Comments for requested MS/MSD analytes
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe pump: 1807B-752															
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4267 5149											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Joshua Messenger				4-22-2020		1730		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-039-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)								
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS				
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As Pb, Cd, K, Na, Mg) (8020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW039-202	4-22-2020	1418	7					2	1	1*	1	1	1				
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
<p style="text-align: center;">Pump: 1807B-752</p>																		
SAMPLER(S): <i>J. Messenger</i>				RELINQUISHED BY:				DATE				TIME				COURIER AND SHIPPING NUMBER: FedEx 7702 4268 9970	TB202-72	
Printed Name and Signature:				Printed Name and Signature:				DATE				TIME				RECEIVED BY:	DATE	TIME
<i>Joshua Messenger</i>				<i>John Wang</i>				4-22-2020				1730						
Printed Name and Signature:				Printed Name and Signature:														
Printed Name and Signature:				Printed Name and Signature:														
Printed Name and Signature:				Printed Name and Signature:														

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-040-202													
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020															
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)																	
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS													
				Total Number of bottles	VOCs	(8280C)	BTEX	(8280C)	ED8	(8011)	Total (As, Pb, Cd, Cu, Ni, Mo)	(6020A/6010C)	Dissolved Fe, Mn	(6010C)	Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite	(3332)	Alkalinity (Total, Carbonate and Bicarbonate)	(5M/2320B)	Carbon Dioxide	(RSK-175)	Methane	(RSK-175)	(RSK-175)		
1	GW040-202	4-23-2020	0932	7						2	1	1*	1	1	1	1	1	1	1	1							
2																											
3																											
4																											
5																											
6																											
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																											
pump: 1807B-753																											
TB202- 75																											
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4269 0425																							
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME													
Printed Name and Signature: Joshua Messenger				4-23-2020		1730																					
Printed Name and Signature: John Mung																											
Printed Name and Signature:																											
Printed Name and Signature:																											



225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-041-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cu, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW041-202	4-9-2020	1241	7				2	1	1*	1	1	1		<div>TB202-35</div>		
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): J. Messenger

REQUISITIONED BY: J. Messenger

DATE: 4-9-2020

TIME: 1700

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9610

RECEIVED BY:

DATE:


TIME:

Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111

E-4-41

September 2020

TB202-35



225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-043-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2426 New Holland Pike Lancaster PA 17601

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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

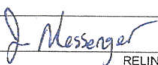
PROJECT SITE AND PHASE:
ST106/SS111

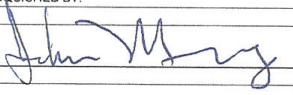
Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS
				Total Number of Bottles	VOCs	(8260C) BTEX	(8260C) BTEX	(8260C) EDB	Total (As, Pb, Cd, Ni, Mn, Mg) (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3532)	(Total, Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (53423208)	
1	GW043-202	4-9-2020	1220	7				2	1	1*	1	1	1		
2															
3															
4															
5															
6															

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):


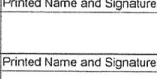
RELINQUISHED BY:


DATE
4-9-2020

TIME
1700

COURIER AND SHIPPING NUMBER:
FedEx 8137 2565 9584

TB202-38

RECEIVED BY:


DATE

TIME


Printed Name and Signature:


Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-045-202</div>										
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020										
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)												
ANALYSIS REQUIRED (Specify number of bottles)																						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(BTEX)	BTEXN	(BTEXN)	EDB	Total (As, Pb, Cd, Ni, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	(Total Carbonate, and Bicarbonate)	Alkalinity	Carbon Dioxide	(RSK-175)	Methane	(RSK-175)	COMMENTS	
1	GW045-202	4-24-2020	0847	7						2	1	1*	1	1	1							
2																						
3																						
4																						
5																						
6																						
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																						
<p style="text-align: right; margin-right: 100px;">pump: 18076-752</p>																						
SAMPLER(S): <i>J. Messenger</i>										COURIER AND SHIPPING NUMBER: FedEx <i>7702 4271 7403 TB202-76</i> 7702 4270 3922x												
RELINQUISHED BY:										RECEIVED BY:												
DATE:										DATE:												
TIME:										TIME:												
Printed Name and Signature: <i>Joshua Messenger</i>										Printed Name and Signature:												
DATE: <i>4-24-2020</i>										DATE:												
TIME: <i>1630</i>										TIME:												
Printed Name and Signature:										Printed Name and Signature:												
Printed Name and Signature:										Printed Name and Signature:												


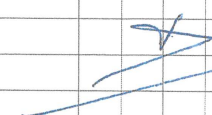
 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625										CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility										PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020	
PROJECT SITE AND PHASE: ST105/SS111										Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS						
					VOCs (8260C) BTEX (8260C)	ED8 (8260C) BTEXN (8260C)	Total (As, Pb, Cd, Na, Mg) (8011)	Dissolved Fe, Mn (6020/6010C)	Chloride, bromide, sulfate (6010C) (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)							
1	GW046-202	4-22-2020	1410	7			2	1	1*	1	1	1									
2																					
3																					
4																					
5																					
6																					


COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

TB202- 72

SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7702 42689970			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
Printed Name and Signature: D. Schmeelk		4-22-2020	1730	Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			

		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-047-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eest.com EA Amanda Smith: asmith@eest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eest.com EA				QUARTER: 2 (Apr-Jun)							
				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)														COMMENTS			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	ED8 (8011)	Total (As Pb, Ca, K, Na, Mg) (8204/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate and Bicarbonate) (353.2)			Carbon Dioxide (SM4220B) (RSK-175)	Metane (RSK-175)
1	GW047-202	4-17-2020	0917	7	—	—	—	2	1	1*	1	1	1	—	—	—	
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
TB202-63																	
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx <i>7702 6243 0562</i>													
REINQUISHED BY: _____ DATE _____ TIME _____				RECEIVED BY: _____ DATE _____ TIME _____													
Printed Name and Signature: <i>Joshua Messenger</i>				Printed Name and Signature: _____													
Printed Name and Signature: <i>John May</i>				Printed Name and Signature: _____													
Printed Name and Signature: _____				Printed Name and Signature: _____													
Printed Name and Signature: _____				Printed Name and Signature: _____													

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-048-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020		
PROJECT SITE AND PHASE: ST 106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						QUARTER: 2 (Apr-Jun)		
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	COMMENTS
1	GW048-202	4/29/2020	0911	7										
2														
3														
4														
5														
6														
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered														
Pump SN: 1807B-952 752 SAMPLER(S): D. Schneelk RELINQUISHED BY: D. Schneelk DATE: 4-29-2020 TIME: 1610 COURIER AND SHIPPING NUMBER: FedEx 7702 4270 4311 RECEIVED BY: TB202- 82														
Printed Name and Signature: D. Schneelk DATE: 4-29-2020 TIME: 1610 Printed Name and Signature: _____ DATE: _____ TIME: _____ Printed Name and Signature: _____ DATE: _____ TIME: _____ Printed Name and Signature: _____ DATE: _____ TIME: _____														



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

PROJECT NAME:
**Kirtland AFB Bulk Fuels
Facility**

PROJECT NUMBER:
62599DM01

PROJECT SITE AND PHASE:
ST106/SS111

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

Lab PO Number: 14800

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-049-202

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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs	BTEX	BTEXN	(8260C)	ED8	Total (As, Pb, Cd, Cr, Ni, Hg)	(8011)	Disolved Fe, Mn (6020A/6010C)	(6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3332)	
1	GW049-202	4-9-2020	1046	7					2	1	1*	1	1	1		
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
J. Messenger

RELINQUISHED BY:
J. Messenger

DATE
4-9-2020

TIME
1700

COURIER AND SHIPPING NUMBER:
FedEx 8137 2565 9584

RECEIVED BY:

DATE


TIME

Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111

E-4-49

September 2020

4



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-050-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

YEAR: 2020

QUARTER: 2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of bottles	VOCs	BTEX	BTEXN	EDB	Total (As, Pb, Cd, Ni, Mn)	Disolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	(RSK-175) Methane	(RSK-175)	
1	GW050-202	4-9-2020	1131	7					2	1	1*	1	1	1			
2																	
3																	
4																	
5																	
6																	


COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): J. Messenger

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9595

TB202-37

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: J. Messenger	4-9-2020	1700	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-051-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

YEAR:
2020

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

QUARTER:
2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs	BTEX	(8260C)	BTEXN	(8260C)	EDB	Total (As, Pb, Cd, Cr, Ni, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	
1	GW051-202	4-9-2020	1109	7					2	1	1*	1	1	1			
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
J. Messenger

RELINQUISHED BY:
Joshua Messenger

DATE
4-9-2020

TIME
1700

COURIER AND SHIPPING NUMBER:
FedEx 8137 2565 9595

RECEIVED BY:

DATE

TIME

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:


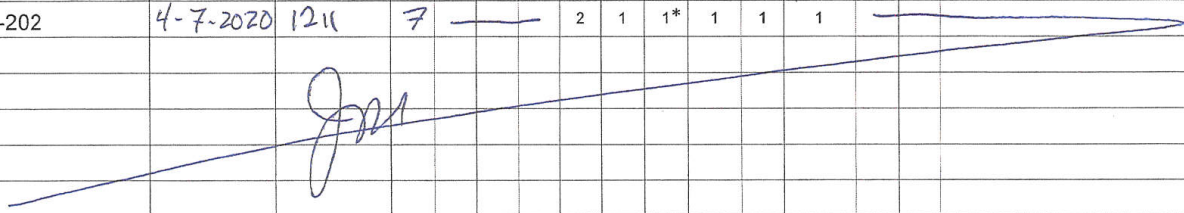

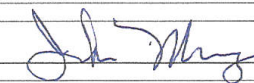
Printed Name and Signature:


EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-052-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)					
						LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	ED8 (8260C)	Total (As, Pb, Cd, Ni, Mn) (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M/2320B)		Carbon Dioxide (RSK-175)
1	GW052-202	4-8-2020	0821	7			2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
<div> <div>SAMPLER(S): J. Messenger</div> <div>RELINQUISHED BY: Joshua Messenger</div> <div>DATE: 4-8-2020</div> <div>TIME: 1700</div> </div> <div> <div>COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9702</div> <div>TB202- 25</div> </div>															
<div> <div>Printed Name and Signature: Joshua Messenger</div> <div>Printed Name and Signature: John M...</div> <div>Printed Name and Signature:</div> <div>Printed Name and Signature:</div> </div> <div> <div>RECEIVED BY:</div> <div>DATE:</div> <div>TIME:</div> <div>DATE:</div> <div>TIME:</div> </div>															

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-053-202					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/IEDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/IEDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS					
				Total Number of Bottles	VOCs	BTEX	(8260C)	BTEXN	(8260C)	EDB	(8011)	Total (As, Pb, Cd, Cr, Ni, Hg)	Dissolved Fe, Mn (6020A/6010C)		(6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(Total Carbonate, and Bicarbonate)	Alkalinity (SM23208)
1	GW053-202	4-8-2020	0846	7	—	—	—	—	—	2	1	1*	1	1	1	—	—	—	—
2																			
3																			
4																			
5																			
6																			
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																			
SAMPLER(S): <i>J. Messenger</i>				RELINQUISHED BY: <i>Joshua Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9702				TB202-25							
DATE: 4-8-2020				TIME: 1700				RECEIVED BY: <i>John M...</i>				DATE: 4-8-2020							
Printed Name and Signature: <i>Joshua Messenger</i>				Printed Name and Signature: <i>John M...</i>				Printed Name and Signature:				Printed Name and Signature:							
Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:							
Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:							

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-054-202									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020											
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS									
				Total Number of Bottles	VOCs	BTEX	(B26C)	BTEXN	(B26C)	EDB	Total (As, Pb, Ca, K, Na, Mg)	(B20A/B20C)	Dissolved Fe, Mn		(6010C)	Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide (SM2320B)	(RSK-175) Methane	(RSK-175)
1	GW054-202	4-8-2020	0911	7					2	1	1*	1	1	1									
2																							
3																							
4																							
5																							
6																							
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																							
SAMPLER(S): J. Messenger												COURIER AND SHIPPING NUMBER: TB202-26											
RELINQUISHED BY:												RECEIVED BY:											
DATE												DATE											
TIME												TIME											
Printed Name and Signature: Joshua Messenger												Printed Name and Signature:											
4-8-2020												1700											
Printed Name and Signature:												Printed Name and Signature:											
Printed Name and Signature:												Printed Name and Signature:											
Printed Name and Signature:												Printed Name and Signature:											

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-055-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST109/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS
					VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (3542/208)	Carbon Dioxide (RSK-175)	
1	GW055-202	4-7-2020	1146	7	—	2	1	1*	1	1	1				
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
TB202- 22															
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9827											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Joshua Messenger				4-7-2020		1700		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER <div style="background-color: yellow; padding: 2px; text-align: center;">COC-057-202</div>											
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020									
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2 (Apr-Jun)											
				ANALYSIS REQUIRED (Specify number of bottles)							COMMENTS						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCS (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mn) (6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	COMMENTS	
1	GW057-202	4-7-2020	1211	7	—	—	—	2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): 										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9827							
RELINQUISHED BY:										RECEIVED BY:							
DATE: 4-7-2020 TIME: 1700																	
Printed Name and Signature: Joshua Messenger 										Printed Name and Signature:							
Printed Name and Signature:										Printed Name and Signature:							
Printed Name and Signature:										Printed Name and Signature:							



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

PROJECT NAME:
Kirtland AFB Bulk Fuels
Facility

PROJECT NUMBER:
62599DM01

PROJECT SITE AND PHASE:
ST106/SS111

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

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

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

COC NUMBER
COC-058-202

YEAR: 2020

QUARTER: 2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8280C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total (As Pb, Ca, K, Na, Mg) (8020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity and Bicarbonate (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW058-202	4-9-2020	0841	7				2	1	1*	1	1	1				
2	GW058-602	4-9-2020	0841	7				2	1	1*	1	1	1				
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): J. Messenger

RELINQUISHED BY: Joshua Messenger John Messenger

DATE: 4-9-2020


TIME: 1700

COURIER AND SHIPPING NUMBER: FedEx 8137 2585 9600


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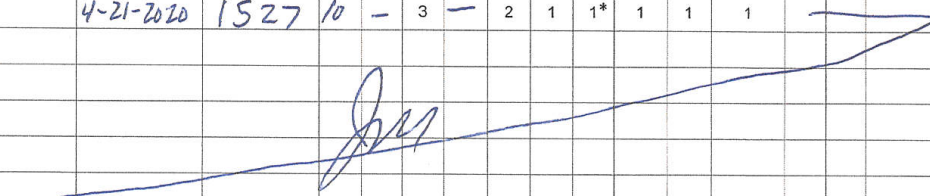
DATE:

TIME:


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER				
												COC-059-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01	LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/IEDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA			YEAR: 2020								
					FAX AND MAIL REPORTS/IEDD TO: Pam Moss: pmoss@eaest.com EA			QUARTER: 2 (Apr-Jun)								
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(BTEXN)	EDB	Total (As, Pb, Cd, Cr, Ni, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide (SM2320B)	(RSK-175) Methane	COMMENTS
1	GW059-202	5-6-2020	1340	10	—	3	—	2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Associated with ER202-03 Pump: 1807B-902 <div style="text-align: right;">TB202- 89</div>																
SAMPLER(S): <u>D. Schmealk</u>				COURIER AND SHIPPING NUMBER: <u>FedEx 7704 0158 1592</u>												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: <u>Dylan Schmealk</u>				5-6-2020		1630										
Printed Name and Signature:																
Printed Name and Signature:																
Printed Name and Signature:																


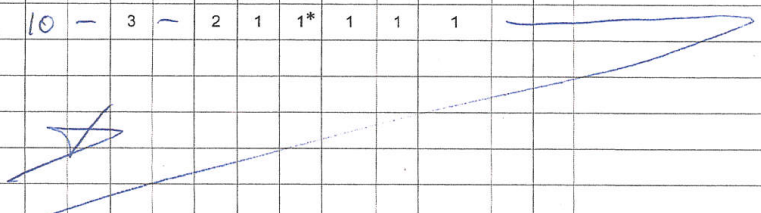
CHAIN-OF-CUSTODY RECORD										COC NUMBER	
										COC-060-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DIM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258					
ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs	BTEX	(BTEXN)	(BTEXN)	(BTEXN)	Total (As, Pb, Cd, Cr, Ni, Mn)	COMMENTS
1	GW060-202	4-20-2020	1216	10	—	3	—	2	1	1*	
2											
3											
4											
5											
6											
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered											
SAMPLER(S): J. Messenger										COURIER AND SHIPPING NUMBER: FedEx 7702 4265 7518	
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:			DATE	TIME	
Printed Name and Signature: Joshua Messenger				4-20-2020	1530	Printed Name and Signature:					
Printed Name and Signature:						Printed Name and Signature:					
Printed Name and Signature:						Printed Name and Signature:					
Printed Name and Signature:						Printed Name and Signature:					

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-061-202																	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA																	
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS							
				Total Number of Bottles	VOCs	BTEX	(8260C)	(8260C)	BTEXN	(8260C)	ED8	(8011)	Total (As, Pb, Cd, Na, Mg)	(6010C)	Dissolved Fe, Mn		Chloride, bromide, sulfate	Nitrate-Nitrite	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	Carbon Dioxide	(RSK-175)
1	GW061-202	4-27-2020	1256	10	-	3	-	2	1	1*	1	1	1										
2																							
3																							
4																							
5																							
6																							
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																							
SAMPLER(S): <i>D. Schmeeckle</i>																							
RELINQUISHED BY: <i>D. Schmeeckle</i>												COURIER AND SHIPPING NUMBER: FedEx <i>5702 4270 3922</i>											
DATE: 4-27-2020												TIME: 1630											
RECEIVED BY: <i>D. Schmeeckle</i>												DATE:											
TIME:												DATE:											
DATE:												TIME:											
DATE:												TIME:											
DATE:												TIME:											
DATE:												TIME:											

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-062-202</div>				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)				
PROJECT SITE AND PHASE: ST 106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) BTEX	ED8 (8260C) BTEXN	ED8 (8260C) BTEXN	Total (As Pb, Cd, Ni, Mn) (6011) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (354.2)	Carbon Dioxide (SM2320B)	(TSK-175) Methane (TSK-175)	COMMENTS	
1	GW062-202	4-21-2020	1527	10	-	3	-	2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>J. Messenger</i>										TB202-69						
RELINQUISHED BY: _____ DATE _____ TIME _____										COURIER AND SHIPPING NUMBER: FedEx 7702 4267 5105						
RECEIVED BY: _____ DATE _____ TIME _____																
Printed Name and Signature: <i>Joshua Messenger</i> <i>John M...</i> 4-21-2020 1700																
Printed Name and Signature: _____																
Printed Name and Signature: _____																
Printed Name and Signature: _____																


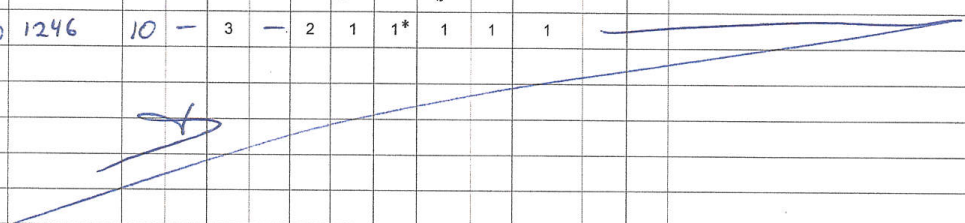
EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-063-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020		QUARTER: 2 (Apr-Jun)			
PROJECT SITE AND PHASE: ST 106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2060C)	BTEX (2060C)	BTXN (2060C)	EDB (2011)	Total (As, Pb, Cd, K, Na, Mg) (2020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (352.208)	Carbon Dioxide (RSK-175)	Comments
1	GW063-202	5-19-2020	1055	10	-	3	-	2	1	1*	1	1	1		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
TB202-9091															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7705 0008 4848											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schmeelk				5-19-2020		1430		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER									
												COC-064-202									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020									
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)											
ANALYSIS REQUIRED (Specify number of bottles)																					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS					
1	GW064-202	5-19-2020	1020	10	-	3	-	2	1	1*	1	1	1								
2																					
3																					
4																					
5																					
6																					
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																					
SAMPLER(S): D. Schneelk										COURIER AND SHIPPING NUMBER: FedEx 7705 0008 4848											
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schneelk										5-19-2020		1430		Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-065-202</div>				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)				
PROJECT SITE AND PHASE: ST 106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (AsPb,Ca,K,Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5220B)	Carbon Dioxide (RSK-175)	Mercury (RSK-175)	
1	GW065-202	4-22-2020	0938	10	-	3	-	2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): D. Schmeelk								COURIER AND SHIPPING NUMBER: FedEx 7702 4267 4863								
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: D. Schmeelk				4-22-2020		1730		Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-066-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/IEDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	(Total Carbonate and Bicarbonate)		Carbon Dioxide (SM23208)
1	GW066-202	4-22-2020	1210	10	-	3	-	2	1	1*	1	1	1		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
TB202- 71															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7702 4267 4863											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: D. Schmeelk				4-22-2020	1730	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-067-202									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020											
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)													
						LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS							
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)								
1	GW067-202	4-21-2020	1020	10	-	3	-	2	1	1*	1	1	1										
2																							
3																							
4																							
5																							
6																							
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																							
SAMPLER(S): D. Schmeelk				RELINQUISHED BY:				COURIER AND SHIPPING NUMBER: FedEx 7702 4267 5105				TB202-69											
Printed Name and Signature:				DATE				TIME				RECEIVED BY:				DATE				TIME			
D. Schmeelk				4-21-2020				1700															
Printed Name and Signature:																							
Printed Name and Signature:																							
Printed Name and Signature:																							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-068-202											
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020											
PROJECT SITE AND PHASE: ST 106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)													
PROJECT SITE AND PHASE:		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																	
ANALYSIS REQUIRED (Specify number of bottles)																							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cd, Na, Mg) (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSC-175)	COMMENTS									
1	GW068-202	4-20-2020	1246	10	3	1	2	1	1*	1	1	1											
2																							
3																							
4																							
5																							
6																							
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																							
<div style="text-align: right;">TB202- 67</div>																							
SAMPLER(S): <u>D. Schmeelk</u>				COURIER AND SHIPPING NUMBER: FedEx 7702 4265 7518																			
RELINQUISHED BY:				DATE				TIME				RECEIVED BY:				DATE				TIME			
Printed Name and Signature:				DATE				TIME				Printed Name and Signature:				DATE				TIME			
<u>D. Schmeelk</u>				4-20-2020				1530															
Printed Name and Signature:				DATE				TIME				Printed Name and Signature:				DATE				TIME			
Printed Name and Signature:				DATE				TIME				Printed Name and Signature:				DATE				TIME			

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-069-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)					
				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Mn, Mg) (6020/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity / Total Carbonate, and Bicarbonate (SM2320B)	Carbon Dioxide (RSK-175)	Comments
1	GW069-202	4-23-2020	1202	10	-	3	-	2	1	1*	1	1	1		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
pump: 1807B-752															
TB202- 74															
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4269 0414											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Joshua Messenger				4-23-2020		1730		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-070-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmrith@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR: 2020

QUARTER: 2 (Apr-Jun)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS
					VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW070-202	4-16-2020	0901	7				2	1	1*	1	1	1			
2	GW070-602	4-16-2020	0901	7				2	1	1*	1	1	1			
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): J. Messenger

COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5636

RELINQUISHED BY: Joshua Messenger

DATE: 4-16-2020

TIME: 1900

RECEIVED BY:

DATE:

TIME:


Printed Name and Signature:


Printed Name and Signature:


Printed Name and Signature:

Printed Name and Signature:


EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-071-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com Amanda Smith: asmith@eaest.com				EA		YEAR: 2020		
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com				EA		QUARTER: 2 (Apr-Jun)				
				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTX (8260C)	BTXN (8260C)	ED8 (8011)	Total (As Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	(Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (rSC-175)	Methane (rSC-175)	COMMENTS
1	GW071-202	4-16-2020	1001	7				2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
TB202-57																
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5603												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: Joshua Messenger				4-16-2020		1900		Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								

		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-072-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)								
				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258														
ANALYSIS REQUIRED (Specify number of bottles)														COMMENTS				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8260C)	(8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)			Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)
1	GW072-202	4-16-2020	0933	7					2	1	1*	1	1	1				
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
TB202-56																		
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4261 6036														
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME				
Printed Name and Signature: Joshua Messenger				4-16-2020		1900		Printed Name and Signature:										
Printed Name and Signature:								Printed Name and Signature:										
Printed Name and Signature:								Printed Name and Signature:										
Printed Name and Signature:								Printed Name and Signature:										

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 594-7000 Fax No. (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-073-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020		
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)				
		Lab CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	ED8	Total (As, Pb, Cd, Cr, Ni, Mn, Mg)	Disolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total Carbonate and Bicarbonate)	Carbon Dioxide	COMMENTS
1	GW073-202	4-30-2020	0919	7				2	1	1*	1	1	1	
2														
3														
4														
5														
6														
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered														
Pump SN: 1807B-752 SAMPLER(S): D. Schmeelk														
RELINQUISHED BY: D. Schmeelk										COURIER AND SHIPPING NUMBER: FedEx 7703 6032 7070				
DATE: 4-30-2020 TIME: 1700										RECEIVED BY:				
Printed Name and Signature: D. Schmeelk										Printed Name and Signature:				
Printed Name and Signature:										Printed Name and Signature:				
Printed Name and Signature:										Printed Name and Signature:				
Printed Name and Signature:										Printed Name and Signature:				


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PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)								
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
ANALYSIS REQUIRED (Specify number of bottles)																				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(8260C)	BTEXN	(8260C)	BTEX	Total (As, Pb, Cd, Cr, Ni, Mn, Mg) (8011)	EDB	(6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS	
1	GW074-202	4-30-2020	1111	7						2	1	1*	1	1	1					
2																				
3																				
4																				
5																				
6																				
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																				
Pump SN: 1807B-792 752 SAMPLER(S): D. Schneelk																				
RELINQUISHED BY:										COURIER AND SHIPPING NUMBER: FedEx 7703 6032 7070 TB202-84										
DATE TIME										RECEIVED BY:										
Printed Name and Signature: D. Schneelk										Printed Name and Signature:										
DATE TIME: 4-30-2020 1700										Printed Name and Signature:										
Printed Name and Signature:										Printed Name and Signature:										
Printed Name and Signature:										Printed Name and Signature:										

EA 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625										CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-075-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility			PROJECT NUMBER: 62599DM01			LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601					FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA					YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111			Lab PO Number: 14800					LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258					QUARTER: 2 (Apr-Jun)								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS						
					VOCS (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As Pb, Cd, Cu, Ni, Mn, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (3523/208)	Carbon Dioxide (RSK-175)		Methane (RSK-175)					
1	GW075-202	4-20-2020	1035	7	—	2	1	1*	1	1	1										
2																					
3																					
4																					
5																					
6																					
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																					
TB202- 66																					
SAMPLER(S): D. Schneelk										COURIER AND SHIPPING NUMBER: FedEx 7702 4265 7974											
RELINQUISHED BY:										RECEIVED BY:											
DATE										DATE											
TIME										TIME											
Printed Name and Signature: D. Schneelk										Printed Name and Signature:											
4-20-2020 1530										Printed Name and Signature:											
Printed Name and Signature:										Printed Name and Signature:											
Printed Name and Signature:										Printed Name and Signature:											


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-076-202</div>							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)									
ANALYSIS REQUIRED (Specify number of bottles)																			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(2260C)	BTEXN	(2260C)	EDB	Total (As, Pb, Cu, K, Na, Mg)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	Methane	COMMENTS	
1	GW076-202	04-28-2020	1407	10	-	3	-	2	1	1*	1	1	1	1	1				
2																			
3																			
4																			
5																			
6																			
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered														<i>note: Alkalinity only half volume (~150mL)</i>					
Pump SN: 1808-402														TB202- 80					
SAMPLER(S): <i>Galveston Begaye</i>										COURIER AND SHIPPING NUMBER: <i>FedEx 7702 4270 3830</i>									
RELINQUISHED BY:										DATE				TIME					
Printed Name and Signature: <i>Galveston Begaye</i>										DATE: <i>4/28/2020</i>				TIME: <i>1700</i>					
Printed Name and Signature:																			
Printed Name and Signature:																			
Printed Name and Signature:																			

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-077-202										
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020												
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS										
				Total Number of Bottles	VOCs	(8260C)	BTEX	(8260C)	BTEXN	(8260C)	ED8	(8011)	Total (As, Pb, Cd, Ni, Mg)		Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	Carbon Dioxide	(RSK-175) Methane	(RSK-175)		
1	GW077-202	4-27-2020	1015	10	-	3	-	2	1	1*	1	1	1											
2																								
3																								
4																								
5																								
6																								
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																								
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7702 4270 3922 TB202- 79																				
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:													DATE		TIME	
Printed Name and Signature: D. Schmeelk				4-27-2020		1630																		
Printed Name and Signature:																								
Printed Name and Signature:																								
Printed Name and Signature:																								

EA [®]		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 711-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-078-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)			
PROJECT SITE AND PHASE: ST 106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) BTEX	BTXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5023200)	Carbon Dioxide (5023200)	(RSK-175) Methane (RSK-175)	COMMENTS
1	GW078-202	4-21-2020	1140	10	-	3	-	2	1	1*	1	1	1		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
<div style="text-align: right;">TB202-69</div>															
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 7702 4267 5105											
RELINQUISHED BY: _____ DATE _____ TIME _____				RECEIVED BY: _____ DATE _____ TIME _____											
Printed Name and Signature: <i>Joshua Messenger</i> <i>JH Messenger</i> 4-21-2020 1700				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: _____											


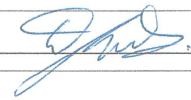
 <div>225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625</div>		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-079-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST-106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						QUARTER: 2 (Apr-Jun)			
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Carbon Dioxide (SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Methane (RSK-175)	COMMENTS
1	GW079-202	04-10-2020	1045	10	3	1	2	1	1*	1	1	1	1		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: <i>FedEx 7702 1539 7100</i> <i>TB202-51</i> <i>8332</i>					
RELINQUISHED BY:										RECEIVED BY:					
DATE										DATE					
TIME										TIME					
Printed Name and Signature:										Printed Name and Signature:					
<i>Galeton Begaye</i>															
Printed Name and Signature:										Printed Name and Signature:					
Printed Name and Signature:										Printed Name and Signature:					


EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No (410) 584-7000 Fax No (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-080-202					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eest.com EA Amanda Smith: asmith@eest.com EA				YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eest.com EA				QUARTER: 2 (Apr-Jun)									
				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258															
				ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED9 (8011)	Total (As, Pb, Cd, Cu, Ni, Mg) (8010)	Dissolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (542320B)	Carbon Dioxide (TSK-175)	Methane (TSK-175)	COMMENTS			
1	GW080-202	4-23-2020	0905	10	—	3	—	2	1	1*	1	1	1						
2																			
3																			
4																			
5																			
6																			
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																			
										TB202- 74									
SAMPLER(S): D. Schmeelk										COURIER AND SHIPPING NUMBER: FedEx 7702 4269 0414									
RELINQUISHED BY:										RECEIVED BY:				DATE				TIME	
Printed Name and Signature: D. Schmeelk										Printed Name and Signature:									
Printed Name and Signature:										Printed Name and Signature:									
Printed Name and Signature:										Printed Name and Signature:									


 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				COC-081-202							
PROJECT SITE AND PHASE: ST108/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020 QUARTER: 2 (Apr-Jun)							
ANALYSIS REQUIRED (Specify number of bottles)																			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (9011)	Total (As, Pb, Cd, K, Na, Mg) (6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (3542/208)	Carbon Dioxide (TSK-175)	Methane (TSK-175)	COMMENTS			
1	GW081-202	4-29-2020	1342	10	-	3	-	2	1	1*	1	1	1						
2																			
3																			
4																			
5																			
6																			
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Pump SN: 1807B-752 TB202- 82																			
SAMPLER(S): D. Schmeelk				RELINQUISHED BY:				DATE				TIME				COURIER AND SHIPPING NUMBER: FedEx 7702 4270 4311			
Printed Name and Signature: D. Schmeelk				Printed Name and Signature:				DATE				TIME				RECEIVED BY:			
								4-29-2020				1610							
Printed Name and Signature:				Printed Name and Signature:															
Printed Name and Signature:				Printed Name and Signature:															
Printed Name and Signature:				Printed Name and Signature:															


EA 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-082-202					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						QUARTER: 2 (Apr-Jun)					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS			
				Total Number of Bottles	VOCs	BTEX	BTXN	ED8	(8280C)	(8280C)	Total (As, Pb, Cd, Ni, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate		Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide
1	GW082-202	4/28/2020	1320	7					2	1	1*	1	1	1			
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
Pump SN# 1807B-752 SAMPLER(S): D. Schuelek RELINQUISHED BY: D. Schuelek DATE: 4-28-2020 TIME: 1700 COURIER AND SHIPPING NUMBER: FedEx 7702 4269 4270 0837 TB202- 81 RECEIVED BY: [Signature] Printed Name and Signature: _____ DATE: _____ TIME: _____ Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: _____																	

Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-084-202					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 2 (Apr-Jun)			
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS	
1	GW084-202	4-28-2020	1125	7				2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
<div style="display: flex; justify-content: space-between;"> <div> <p>Pump SN# 1807B-752</p> <p>SAMPLER(S): D. Schneelk</p> <p>RELINQUISHED BY: D. Schneelk </p> <p>DATE: 4-28-2020</p> <p>TIME: 1700</p> </div> <div> <p>COURIER AND SHIPPING NUMBER: FedEx 7702 4269 0837</p> <p>RECEIVED BY:</p> <p>DATE:</p> <p>TIME:</p> </div> </div>																	
<div style="display: flex; justify-content: space-between;"> <div> <p>Printed Name and Signature:</p> <p>Printed Name and Signature:</p> <p>Printed Name and Signature:</p> <p>Printed Name and Signature:</p> </div> <div> <p>Printed Name and Signature:</p> <p>Printed Name and Signature:</p> <p>Printed Name and Signature:</p> <p>Printed Name and Signature:</p> </div> </div>																	

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-085-202						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA						
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)						
ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C) (8260C) BTEX (8260C) BTEXN (8260C) ED8 (8011) Total (AsPh,Ca,K,Mg) (6020A/6010C) Disolved Fe, Mn (6010C) Chloride, bromide, sulfate (3000) Nitrate-Nitrite (3532) Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B) Cation Dioxide (RSK-175) Methane (RSK-175)	COMMENTS						
1	GW085-202	04-06-2020	1010	7	2	1	1*	1	1	1		
2	GW085-602	04-06-2020	1010	7	2	1	1*	1	1	1		
3												
4												
5												
6												
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered												
SAMPLER(S): <i>G. Begaye</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9860				TB202-09				
RELINQUISHED BY:		DATE		TIME		RECEIVED BY:		DATE		TIME		
Printed Name and Signature: <i>Gakston Begaye</i>		DATE: <i>4-6-2020</i>		TIME: <i>1700</i>		Printed Name and Signature:		DATE		TIME		
Printed Name and Signature:		DATE		TIME		Printed Name and Signature:		DATE		TIME		
Printed Name and Signature:		DATE		TIME		Printed Name and Signature:		DATE		TIME		

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-086-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14900				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) BTEX	(8260C) BTEXN	EDS (8011)	Total (As, Pb, Cd, Cr, Ni, Mn, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	(Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW086-202	04-06-2020	0935	7	—	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: * Dissolved Fe, Mn aliquot was field filtered															
														TB202- 11	
SAMPLER(S): <i>O. Begaye</i>								COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9849							
RELINQUISHED BY:								RECEIVED BY:							
DATE				TIME				DATE				TIME			
Printed Name and Signature: <i>Galveston Begaye</i>								Printed Name and Signature: <i>[Signature]</i>							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-087-202													
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaast.com EA Amanda Smith: asmith@eaast.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaast.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)													
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS									
				Total Number of Bottles	VOCs	BTEX	(B260C)	BTEXN	(B260C)	EDB	Total (As, Pb, Cd, Cr, Ni, Mn)	(B011)	Dissolved Fe, Mn	(B020A/B010C)	Chloride, bromide, sulfate		(B010C)	Nitrate-Nitrite	(353.2)	Total Carbonate and Bicarbonate	(SM2320B)	Alkalinity	Carbon Dioxide	(RSK-175)	Methane
1	GW087-202	04-06-2020	0900	7						2	1	1*	1	1	1										
2																									
3																									
4																									
5																									
6																									
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																									
SAMPLER(S): <i>G-Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9849															
RELINQUISHED BY:										RECEIVED BY:															
DATE:										DATE:															
TIME:										TIME:															
Printed Name and Signature: <i>Galveston Begaye</i>										Printed Name and Signature:															
Printed Name and Signature:										Printed Name and Signature:															
Printed Name and Signature:										Printed Name and Signature:															
Printed Name and Signature:										Printed Name and Signature:															

TB202-4342



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-089-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE:
ST105/SS111

Lab PO Number: 14800

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

ITEM

SAMPLE IDENTIFIER

DATE COLLECTED

TIME COLLECTED

Total Number of bottles

VOCs
(8260C)

BTEX
(8260C)

ED8
(8011)

Total (As, Pb, Cd, Cr, Ni, Mn)
(6010C)

Dissolved Fe, Mn
(6020A/6010C)

Chloride, bromide, sulfate
(300.0)

Nitrate-Nitrite
(353.2)

(Total, Carbonate, and Bicarbonate)
(SM2320B)

Carbon Dioxide
(RSK-175)

Methane
(RSK-175)

COMMENTS

1	GW089-202	04-09-2020	0930	7			2	1	1*	1	.1	1			
2															
3															
4															
5															
6															

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): G. Begaye

RELINQUISHED BY: G. Begaye

DATE: 4-9-2020

TIME: 1700

COURIER AND SHIPPING NUMBER: FedEx 81372565 9530

TB202-43

Printed Name and Signature: G. Begaye

Printed Name and Signature:

Printed Name and Signature:


Printed Name and Signature:


Printed Name and Signature:

Printed Name and Signature:


Pd

✓

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-091-202</div>												
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmilh@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA												
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)												
ANALYSIS REQUIRED (Specify number of bottles)																		
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	COMMENTS
1	GW091-202	4-8-2020	1311	7	—	—	—	—	—	—	—	—	—	—	—	—	—	
2	GW091-602	4-8-2020	1311	7	—	—	—	—	—	—	—	—	—	—	—	—	—	
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: TB202-23 FedEx 8137 2565 9724														
RELINQUISHED BY:				RECEIVED BY:														
Printed Name and Signature: <i>Joshua Messenger</i>				Printed Name and Signature:														
DATE: 4-8-2020				DATE:														
TIME: 1700				TIME:														
Printed Name and Signature:				Printed Name and Signature:														
Printed Name and Signature:				Printed Name and Signature:														
Printed Name and Signature:				Printed Name and Signature:														

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-092-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 566-7258										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (8011)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3003)	Nitrate-Nitrite (3532)	(Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	
1	GW092-202	4-8-2020	1223	7					2	1	1*	1	1	1		
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>J. Messenger</i> RELINQUISHED BY: _____ DATE _____ TIME _____								COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9713 TB202- 24 RECEIVED BY: _____ DATE _____ TIME _____								
Printed Name and Signature: <i>Joshua Messenger</i> <i>John M...</i> 4-8-2020 1700								Printed Name and Signature: _____								
Printed Name and Signature: _____								Printed Name and Signature: _____								
Printed Name and Signature: _____								Printed Name and Signature: _____								
Printed Name and Signature: _____								Printed Name and Signature: _____								


EA [®] 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-093-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)						
						LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8011)	Total (AsPb,Ca,K,Na,Mg) (8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW093-202	4-8-2020	1249	7	---	---	2	1	1*	1	1	1				
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): J. Messenger																
COURIER AND SHIPPING NUMBER: TB202-24																
RELINQUISHED BY: DATE TIME																
Printed Name and Signature: J. Messenger 4-8-2020 1700																
RECEIVED BY: DATE TIME																
Printed Name and Signature:																
Printed Name and Signature:																
Printed Name and Signature:																
Printed Name and Signature:																

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No. (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER <div style="background-color: yellow; padding: 2px; text-align: center;">COC-094-202</div>		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2 (Apr-Jun)		

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As Pb, Cd, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		(RSK-175)
1	GW094-202	4-21-2020	0917	7				2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 7702 4267 4360				TB202-68	
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME		
<i>Joshua Messenger</i>		4-21-2020	1700						
Printed Name and Signature:				Printed Name and Signature:					
Printed Name and Signature:				Printed Name and Signature:					
Printed Name and Signature:				Printed Name and Signature:					



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-095-202

YEAR: 2020
QUARTER: 2 (Apr-Jun)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2426 New Holland Pike Lancaster PA 17601**

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

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total As,Pb,Cd,Kr,Mg (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M/2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)		
1	GW095-202	4-29-2020	1131	15				6	3	3*	1	1	1		Please see Comments for requested MS/MSD analytes		
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please run MS/MSD on the following analytes only:
VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe

Pump SN: 1807B-752

SAMPLER(S):
D. Schmeelk

RELINQUISHED BY:
D. Schmeelk

DATE
4-29-2020

TIME
1610

COURIER AND SHIPPING NUMBER:
FedEx 7702 4271 7539

RECEIVED BY:

DATE

TIME

Printed Name and Signature:
D. Schmeelk

Printed Name and Signature:



Printed Name and Signature:


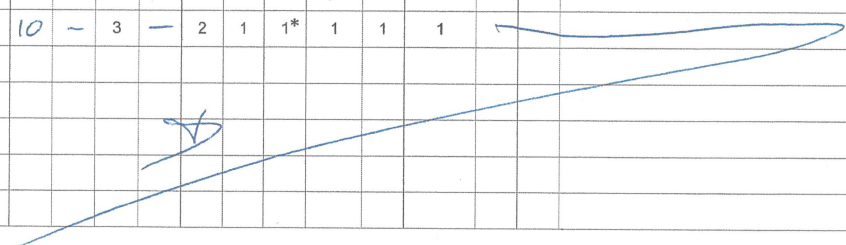



Printed Name and Signature:



Printed Name and Signature:



Printed Name and Signature:

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-096-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaast.com EA Amanda Smith: asmith@eaast.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaast.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower Kay.Hower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)		Carbon Dioxide (SM2320B)
1	GW096-202	5-8-2020	1300	7	—	—	—	2	1	1*	1	1	1	—	—
2	GW096-602	5-8-2020	1300	7	—	—	—	2	1	1*	1	1	1	—	—
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
<p>Pump SN: 1808-402</p> <p>SAMPLER(S): D. Schmeelk</p> <p>RELINQUISHED BY: D. Schmeelk DATE: 5-8-2020 TIME: 1830</p> <p>COURIER AND SHIPPING NUMBER: FedEx 7704 2395 7755 TB202- 90</p> <p>RECEIVED BY: _____ DATE: _____ TIME: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p>															


 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-097-202																																				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020																																				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 2 (Apr-Jun)																																		
				ANALYSIS REQUIRED (Specify number of bottles)																																												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cd, Cu, Ni, Mn) (8011)	Disolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5623/208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS																																	
1	GW097-202	5-1-2020	1739	10	3	2	1	1*	1	1	1																																					
2																																																
3																																																
4																																																
5																																																
6																																																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																																																
<div style="display: flex; justify-content: space-between;"> <div> <p>Pump SN: 1807B-752</p> <p>SAMPLER(S): <i>D. Schuelelk</i></p> </div> <div> <p>TB202-86</p> <p>COURIER AND SHIPPING NUMBER: FedEx 7703 6563 8571</p> </div> </div> <table border="1" style="width: 100%;"> <tr> <th colspan="2">RELINQUISHED BY:</th> <th>DATE</th> <th>TIME</th> <th colspan="2">RECEIVED BY:</th> <th>DATE</th> <th>TIME</th> </tr> <tr> <td colspan="2"> Printed Name and Signature: <i>D. Schuelelk</i> </td> <td>5-1-2020</td> <td>1700</td> <td colspan="2"> Printed Name and Signature: </td> <td></td> <td></td> </tr> <tr> <td colspan="2"> Printed Name and Signature: </td> <td></td> <td></td> <td colspan="2"> Printed Name and Signature: </td> <td></td> <td></td> </tr> <tr> <td colspan="2"> Printed Name and Signature: </td> <td></td> <td></td> <td colspan="2"> Printed Name and Signature: </td> <td></td> <td></td> </tr> </table>																	RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME	Printed Name and Signature: <i>D. Schuelelk</i>		5-1-2020	1700	Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME																																									
Printed Name and Signature: <i>D. Schuelelk</i>		5-1-2020	1700	Printed Name and Signature:																																												
Printed Name and Signature:				Printed Name and Signature:																																												
Printed Name and Signature:				Printed Name and Signature:																																												

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-098-202</div>																																				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020																																				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)																																						
ANALYSIS REQUIRED (Specify number of bottles)																																																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(8260C) BTEX	(8260C) BTEXN	(8260C) EDB	Total (As, Pb, Cd, Ni, Mn, Mg) (8011)	Dissolved Fe, Mn (6020A/6010C)	(6010C) Chloride, bromide, sulfate	(3532) Nitrate-Nitrite	(3532) Alkalinity (Total, Carbonate, and Bicarbonate)	(5M2320B) Carbon Dioxide (RSK-175)	(RSK-175) Methane	COMMENTS																																
1	GW098-202	5-1-2020	0946	10	-	3	-	2	1	1*	1	1	1																																			
2																																																
3																																																
4																																																
5																																																
6																																																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																																																
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <p>Pump SN: 1807B-752</p> <p>SAMPLER(S): <u>D. Schweelk</u></p> </div> <div> <p>COURIER AND SHIPPING NUMBER: <u>FedEx 7703 6563 8571</u></p> </div> <div> <p>TB202-86</p> </div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">RELINQUISHED BY:</th> <th>DATE</th> <th>TIME</th> <th colspan="2">RECEIVED BY:</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td colspan="2"> Printed Name and Signature: <u>D. Schweelk</u>  </td> <td>5-1-2020</td> <td>1700</td> <td colspan="2"> Printed Name and Signature: </td> <td></td> <td></td> </tr> <tr> <td colspan="2"> Printed Name and Signature: </td> <td></td> <td></td> <td colspan="2"> Printed Name and Signature: </td> <td></td> <td></td> </tr> <tr> <td colspan="2"> Printed Name and Signature: </td> <td></td> <td></td> <td colspan="2"> Printed Name and Signature: </td> <td></td> <td></td> </tr> </tbody> </table>																	RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME	Printed Name and Signature: <u>D. Schweelk</u> 		5-1-2020	1700	Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME																																									
Printed Name and Signature: <u>D. Schweelk</u> 		5-1-2020	1700	Printed Name and Signature:																																												
Printed Name and Signature:				Printed Name and Signature:																																												
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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-099-202						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 2 (Apr-Jun)				
ANALYSIS REQUIRED (Specify number of bottles)																		
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As Pb,Ca,Na,Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM4230B)	Methane (TSK-175)	TSK-175	COMMENTS	
1	GW099-202	5-5-2020	1111	10	-	3	-	2	1	1*	1	1	1					
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered <p style="text-align: center;">pump: 1807B-752</p> <p style="text-align: right;">TB202-88</p>																		
SAMPLER(S): <i>D. Schmeck</i>										COURIER AND SHIPPING NUMBER: FedEx <i>7703 9351 1105</i>								
RELINQUISHED BY:										RECEIVED BY:								
DATE TIME										DATE TIME								
Printed Name and Signature: <i>Dylan Schmeck</i>										Printed Name and Signature:								
DATE TIME: <i>5-5-2020 1600</i>										DATE TIME:								
Printed Name and Signature:										Printed Name and Signature:								
Printed Name and Signature:										Printed Name and Signature:								
Printed Name and Signature:										Printed Name and Signature:								

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-100-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 2 (Apr-Jun)		
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As/Pb/Ca/K/Mg) (8020A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS	
1	GW100-202	5-5-2020	0930	10	—	3	—	2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump: 1807B-752																
SAMPLER(S): <u>D. Schmeltz</u>				COURIER AND SHIPPING NUMBER: FedEx 7703 9351 1105												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: <u>Dylan Schmeltz</u>				5-5-2020		1600										
Printed Name and Signature:																
Printed Name and Signature:																
Printed Name and Signature:																

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-101-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCS (8260C)	BTEX (8260C)	BTEN (8260C)	EDB (8011)	Total (As,Pb,Ca,K,Na,Mg) (8200A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (52220B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW101-202	5-4-2020	1023	10	-	3	-	2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
<p>Pump SN: 1807B-752</p> <p>SAMPLER(S): <i>G. Begay</i></p> <p>RELINQUISHED BY: <i>G. Begay</i> DATE: 5-4-2020 TIME: 1700</p> <p>Printed Name and Signature: <i>G. Begay</i></p> <p>COURIER AND SHIPPING NUMBER: FedEx 7703 8194 4159 TB202- 87</p> <p>RECEIVED BY: _____ DATE: _____ TIME: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p> <p>Printed Name and Signature: _____</p>																

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <b style="background-color: yellow;">COC-102-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)			


ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cu, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW102-202	5-4-2020	1226	10	-	3	-	2	1	1*	1	1	1			
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered


SAMPLER(S): Pump SN: 1807B-752 D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7703 8194 4159				TB202-87	
RELINQUISHED BY:		DATE		TIME		RECEIVED BY:		DATE	
Printed Name and Signature: D. Schmeelk		5-4-2020		1700		Printed Name and Signature:		DATE	
Printed Name and Signature:		DATE		TIME		Printed Name and Signature:		DATE	
Printed Name and Signature:		DATE		TIME		Printed Name and Signature:		DATE	

15


CHAIN-OF-CUSTODY RECORD												COC NUMBER			
												COC-104-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)			
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cd, Cu, Ni, Mn) (8011)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-173)	COMMENTS	
1	GW104-202	4-16-2020	0826	7			2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
TB202-56															
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4261 6036											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Joshua Messenger				4-16-2020		1900		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1525		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-105-202										
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA										
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS	
				Total Number of Bottles	VOCs (8240C)	BTEX (8240C)	BTXN (8240C)	EDB (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (8011)	Dissolved Fe, Mn (6030A/6010C)	(6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Total Carbonate and Bicarbonate (SM2320B)		Carbon Dioxide (RSK-175)
1	GW105-202	4-8-2020	1051	7				2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9676												
RELINQUISHED BY:				RECEIVED BY:												
DATE:				DATE:												
TIME:				TIME:												
Printed Name and Signature: <i>Joshua Messenger</i>				Printed Name and Signature:												
Printed Name and Signature: <i>John M...</i>				Printed Name and Signature:												
Printed Name and Signature:				Printed Name and Signature:												
Printed Name and Signature:				Printed Name and Signature:												

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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-106-202</div>							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2 (Apr-Jun)							
				ANALYSIS REQUIRED (Specify number of bottles)							COMMENTS		
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) (8260C) BTEX (8260C) BTEX	EDB (8011)	Total (As Pb, Ca, K, Na, Mg) (8011)	Dissolved Fe, Mn (6010C) (8020A-6010C)	Chloride, Bromide, Sulfate (3000)	Nitrate-Nitrite (3332)		Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)
1	GW106-202	4-8-2020	1120	7	—	2	1	1*	1	1	1		
2	GW106-602	4-8-2020	1120	7	—	2	1	1*	1	1	1		
3													
4													
5													
6													
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered													
SAMPLER(S): <i>J. Messenger</i>				RELINQUISHED BY: <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9687				TB202- 27	
DATE: 4-8-2020 TIME: 1700				RECEIVED BY:				DATE: TIME:					
Printed Name and Signature: <i>Joshua Messenger</i>				Printed Name and Signature:				DATE: TIME:					
Printed Name and Signature:				Printed Name and Signature:				DATE: TIME:					
Printed Name and Signature:				Printed Name and Signature:				DATE: TIME:					
Printed Name and Signature:				Printed Name and Signature:				DATE: TIME:					

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 711-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-107-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020						
PROJECT SITE AND PHASE: ST 106/SS 111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7258				QUARTER: 2 (Apr-Jun)						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS				
				Total Number of Bottles	VOCs	BTEX	(220C)	BTEXN	(220C)	EDB	(8011)	Total (As, Pb, Cd, K, Na, Mg)	Dissolved Fe, Mn (6020A/6010C)		Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide
1	GW107-202	4-8-2020	1029	7						2	1	1*	1	1	1			
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
SAMPLER(S): J. Messenger										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9676								
RELINQUISHED BY: Joshua Messenger										RECEIVED BY:								
DATE: 4-8-2020										TIME: 1700								
Printed Name and Signature: Joshua Messenger										Printed Name and Signature:								
Printed Name and Signature:										Printed Name and Signature:								
Printed Name and Signature:										Printed Name and Signature:								
Printed Name and Signature:										Printed Name and Signature:								



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-149-484-202

YEAR: 2020
QUARTER: 2 (Apr-Jun)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(Total, Carbonate, and Bicarbonate) Alkalinity (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW149-484-202	04-16-2020	1300	10	-	3	-	2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Begaye*

RELINQUISHED BY: *Galveston Begaye* DATE: 4-16-2020 TIME: 1900

RECEIVED BY: *[Signature]* DATE: TIME:


Printed Name and Signature: *[Signature]* DATE: TIME:


Printed Name and Signature: DATE: TIME:

Printed Name and Signature: DATE: TIME:

Printed Name and Signature: DATE: TIME:

COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5349 TB202-52

		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1525		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-151-484-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
				ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (3542)	Carbon Dioxide (SM23208)	(RSK-175)	(RSK-175) Methane
1	GW151-484-202	04-16-2020	1030	10	—	3	—	2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
TB202-60																
SAMPLER(S): <i>G. Begue</i>				COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5967												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature:								Printed Name and Signature:								
<i>Galveston Begue</i>				04-16-2020		1900										
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-152-484-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

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

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

YEAR: 2020
QUARTER: 2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As Pb, Cd, Cr, Cu, Hg, Mn) (8020A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW152-484-202	04-16-2020	0810	10	-	3	-	2	1	1*	1	1	1			
2																
3																
4																
5																
6																


COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

TB202- 59

SAMPLER(S): G. Begaye

COURIER AND SHIPPING NUMBER: FedEx 7702 4261 6529

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Gabeaton Begaye	4-16-2020	1900	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		



225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-153-484-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE
ST106/SS111

Lab PO Number: 14800

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

YEAR: 2020

QUARTER: 2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As,Pb,Ca,K,Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Total Alkalinity (Carbonate and Bicarbonate) (SM2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	
1	GW153-484-202	04-16-2020	1355	10	-	3	-	2	1	1*	1	1	1			
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): G-Begaye

COURIER AND SHIPPING NUMBER: FedEx 7702 4261 6529

RELINQUISHED BY: DATE: 4-16-2020 TIME: 1900

RECEIVED BY: DATE: TIME:

Printed Name and Signature: Gabreton Begaye

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:


Printed Name and Signature:

Printed Name and Signature:

Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111


E-4-110


September 2020


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-201-202</div>											
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020									
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2 (Apr-Jun)											
				ANALYSIS REQUIRED (Specify number of bottles)							COMMENTS						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	8TEX (8260C)	8TEXN (8260C)	ED8 (8011)	Total (As Pb, Cd, K, Na, Mg) (6020A/6010C)	Discolored Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)	
1	GW201-202	04-07-2020	0815	7				2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9805							
RELINQUISHED BY:										RECEIVED BY:							
DATE										DATE							
TIME										TIME							
Printed Name and Signature: <i>Galveston Begaye</i>										Printed Name and Signature:							
DATE: 4-7-2020										TIME: 1700							
Printed Name and Signature:										Printed Name and Signature:							
Printed Name and Signature:										Printed Name and Signature:							
Printed Name and Signature:										Printed Name and Signature:							


EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-202-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)				
				ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Cd, Cr, Ni, Mn) (8011)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	(RSC-175)	
1	GW202-202	04-07-2020	0850	7	—	—	—	2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
TB202- 21																
SAMPLER(S): <i>G. Begame</i>								COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9816								
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: <i>Galveston Begame</i>				4-7-2020		1700		Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-203-202						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020								
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)								
				ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	E28 (8011)	Total (As, Pb, Cd, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM/3208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS				
1	GW203-202	04-07-2020	0915	7	—	—	—	2	1	1*	1	1	1	—	—	—				
2																				
3																				
4																				
5																				
6																				
COMMENTS: * Dissolved Fe, Mn aliquot was field filtered																				
TB202- 21																				
SAMPLER(S): G-Begayc										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9816										
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:			DATE		TIME	
Printed Name and Signature: Gabriela Begayc										DATE: 4-7-2020		TIME: 1700		Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						

 225 Schling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-204-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)	
ANALYSIS REQUIRED (Specify number of bottles)							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	COMMENTS
1	GW204-202	4-7-2020	1111	7	2	1	1*
2							
3							
4							
5							
6							
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered							
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9735			
RELINQUISHED BY:				RECEIVED BY:			
Printed Name and Signature: <i>Joshua Messenger</i>		DATE: 4-7-2020		TIME: 1700		DATE:	
Printed Name and Signature: <i>John M...</i>							
Printed Name and Signature:							
Printed Name and Signature:							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-205-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						QUARTER: 2 (Apr-Jun)				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Cd, Ni, Mn) (8210)	Dissolved Fe, Mn (8210C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M220B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW205-202	4-7-2020	1031	7			2	1	1*	1	1	1				
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>J. Messenger</i>								COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9746								
RELINQUISHED BY:								RECEIVED BY:								
DATE: 4-7-2020 TIME: 1700																
Printed Name and Signature: <i>Joshua Messenger</i>								Printed Name and Signature:								
Printed Name and Signature: <i>John M...</i>								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-206-202					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 2 (Apr-Jun)			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (8220A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	Alkalinity (Total, carbonate, and bicarbonate) (582320B)	Carbon Dioxide (82C-175)	Methane (82C-175)		
1	GW206-202	4-7-2020	1003	7				2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): <i>J. Messenger</i>										TB202-14							
RELINQUISHED BY: _____ DATE _____ TIME _____										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9746							
Printed Name and Signature: <i>Joshua Messenger</i>										RECEIVED BY: _____ DATE _____ TIME _____							
Printed Name and Signature: <i>John M...</i>										Printed Name and Signature: _____							
Printed Name and Signature: _____										Printed Name and Signature: _____							
Printed Name and Signature: _____										Printed Name and Signature: _____							



225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-207-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS		
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	(6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total Carbonate and Bicarbonate) (SM2320B)		Carbon Dioxide (RSC-175)	Methane (RSC-175)
1	GW207-202	4-10-2020	0853	7					2	1	1*	1	1	1			
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): J. Messenger

RELINQUISHED BY: Joshua Messenger

DATE: 4-10-2020

TIME: 1400

COURIER AND SHIPPING NUMBER: FedEx 7702 1539 7119

RECEIVED BY:

DATE:

TIME:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:


Printed Name and Signature:

EA 225 Schling Circle Suite 400 Hunt Valley, MD Tel No. (410) 594-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-208-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)					
LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258															
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	ED11 (8260C)	Disolved Fe, Mn (6020A/6010C) Total (As, Pb, Cd, Ni, Mg)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate and Bicarbonate) (5M2220B)	Carbon Dioxide (RSK-175)	COMMENTS	
1	GW208-202	4-10-2020	0921	7	—	—	2	1	1*	1	1	1			
2	GW208-602	4-10-2020	0921	7	—	—	2	1	1*	1	1	1			
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 7702 1539 7748 TB202-48											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Joshua Messenger</i>				4-10-2020		1400		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

EA®		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				COC-209-202											
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020 QUARTER: 2 (Apr-Jun)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS									
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8011)	Total (As Pb, Ca, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)		Methane (RSK-175)								
1	GW209-202	4-10-2020	0951	7				2	1	1*	1	1	1										
2																							
3																							
4																							
5																							
6																							
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																							
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: TB202-49																			
RELINQUISHED BY:				DATE				TIME				RECEIVED BY:				DATE				TIME			
Printed Name and Signature: Joshua Messenger				4-10-2020				1400				Printed Name and Signature:											
Printed Name and Signature:												Printed Name and Signature:											
Printed Name and Signature:												Printed Name and Signature:											
Printed Name and Signature:												Printed Name and Signature:											


EA [®]		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-212-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020						
PROJECT SITE AND PHASE: ST 106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS				
				Total Number of Bottles	VOCs	BTX	(a260C)	BTEN	(a260C)	ED8	(a260C)	(a260C)	Dissolved Fe, Mn (a200A/60TCC)		Total (As,Pb,Cd,Cr,Mn,Mg) (a201)	Chloride, bromide, sulfate (a200)	Nitrate-Nitrite (a200)	Alkalinity (a200)
1	GW212-202	04-08-2020	1330	7						2	1	1*	1	1	1			
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9665								
RELINQUISHED BY:										RECEIVED BY:								
Printed Name and Signature: <i>Gabeon Begaye</i>										Printed Name and Signature:								
DATE: 4-8-2020										DATE:								
TIME: 1700										TIME:								
Printed Name and Signature:										Printed Name and Signature:								
Printed Name and Signature:										Printed Name and Signature:								
Printed Name and Signature:										Printed Name and Signature:								
Printed Name and Signature:										Printed Name and Signature:								


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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-213-202											
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA											
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS		
				Total Number of Bottles	VOCs	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX	(8260C) BTEX		(8260C) BTEX	
1	GW213-202	04-08-2020	1100	7													
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): <i>G. Begay</i>																	
RELINQUISHED BY:																	
Printed Name and Signature: <i>Galveston Begay</i>				DATE: 4-8-2020				TIME: 1700				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9665					
RECEIVED BY:																	
Printed Name and Signature:																	
DATE:																	
TIME:																	
Printed Name and Signature:																	
DATE:																	
TIME:																	
Printed Name and Signature:																	
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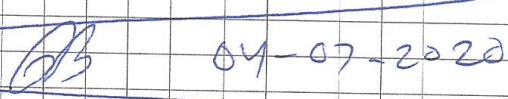
EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-214-202						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020								
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)										
LAB CONTACT: Kay Hower		KayHower@eurofinsUS.com				Eurofins				1 (717) 556-7258										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS						
				Total Number of Bottles	VOCs	BTEX	(220C)	BTEXN	(220C)	EDB	(8011)	Total (As, Pb, Cd, K, Na, Mg)	Dissolved Fe, Mn (6020A/6010C)		(6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	(Total Carbonate and Bicarbonate)	Alkalinity (SM2320B)	Carbon Dioxide (RSK-175)
1	GW214-202	04-08-2020	1040	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2																				
3																				
4																				
5																				
6																				
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																				
SAMPLER(S): G-Begaye										COURIER AND SHIPPING NUMBER: FedEx										
RELINQUISHED BY:										RECEIVED BY:										
DATE										DATE										
TIME										TIME										
Printed Name and Signature: Galveston Begaye										Printed Name and Signature:										
4-8-2020										1700										
Printed Name and Signature:										Printed Name and Signature:										
Printed Name and Signature:										Printed Name and Signature:										
Printed Name and Signature:										Printed Name and Signature:										


EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-215-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS				
				Total Number of Bottles	VOCs	BTEX	(226C)	BTEXN	(226C)	EDB	Total (As, Pb, Cd, Cr, Ni, Mn, Hg)	Dissolved Fe, Mn	Chloride, bromide, sulfate		Nitrate-Nitrite	Alkalinity	Carbon Dioxide	(RSC-175) Methane
1	GW215-202	04-08-2020	1015	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
<div style="display: flex; justify-content: space-between;"> <div> SAMPLER(S): <i>G. Begaye</i> RELINQUISHED BY: <i>Galveston Begaye</i> DATE: <i>4-8-2020</i> TIME: <i>1700</i> </div> <div> COURIER AND SHIPPING NUMBER: <i>FedEx</i> RECEIVED BY: DATE: TIME: </div> </div>																		

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-216-202										
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020										
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						QUARTER: 2 (Apr-Jun)										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS						
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As,Pb,Ca,K,Mg,Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate, and Bicarbonate) (3332)	(SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		(RSK-175)					
1	GW216-202	04-07-2020	1310	15				6	3	3*	1	1	1					Please see Comments for requested MS/MSD analytes				
2																						
3																						
4																						
5																						
6																						
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe																						
SAMPLER(S): <i>G. Begaye</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9779																		
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:											DATE		TIME	
Printed Name and Signature: <i>Gabriel Begaye</i>				4-7-2020		1700		Printed Name and Signature:														
Printed Name and Signature:								Printed Name and Signature:														
Printed Name and Signature:								Printed Name and Signature:														
Printed Name and Signature:								Printed Name and Signature:														

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-217-202									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2 (Apr-Jun)									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCS (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Cd, Ni, Mn) (6010)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (354.2/308)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW217-202	04-07-2020	1230	7	—	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begay</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9780				TB202-18							
RELINQUISHED BY:		DATE		TIME		RECEIVED BY:		DATE		TIME					
<i>Gabrielton Begay</i>		4-7-2020		1700											
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-218-202									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8011)	Total (AsPb, Ca, K, Na, Mg) (8200A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3010)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW218-202	04-07-2020	1200	7	—	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i>				RELINQUISHED BY: <i>G. Begaye</i>				DATE: 4-7-2020				TIME: 1700			
PRINTED NAME AND SIGNATURE: <i>Gabriel Begaye</i>				DATE: 4-7-2020				TIME: 1700				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9780			
RECEIVED BY: <i>Robert</i>				DATE: 4-7-2020				TIME: 1700				RECEIVED BY:			
PRINTED NAME AND SIGNATURE:				DATE:				TIME:				PRINTED NAME AND SIGNATURE:			
PRINTED NAME AND SIGNATURE:				DATE:				TIME:				PRINTED NAME AND SIGNATURE:			
PRINTED NAME AND SIGNATURE:				DATE:				TIME:				PRINTED NAME AND SIGNATURE:			


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-219-202									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Ca, K, Na, Mg) (8011)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM23208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW219-202	04-07-2020	1010	7			2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i>				RELINQUISHED BY:				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9790				TB202- 19			
Printed Name and Signature: <i>Gabeon Begaye</i>				DATE: 4-7-2020 TIME: 1700				RECEIVED BY:				DATE: TIME:			
Printed Name and Signature:				DATE: TIME:				Printed Name and Signature:				DATE: TIME:			
Printed Name and Signature:				DATE: TIME:				Printed Name and Signature:				DATE: TIME:			
Printed Name and Signature:				DATE: TIME:				Printed Name and Signature:				DATE: TIME:			

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-220-202									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	ED8 (8011)	Total (As Pb, Cd, K, Na, Mg) (6010)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	
1	GW220-202	04-07-2020	1040	7				2	1	1*	1	1	1		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i>				RELINQUISHED BY:				DATE:				TIME:			
Printed Name and Signature: <i>Gabriel Begaye</i>				DATE: 4-7-2020				TIME: 1700				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9790			
RECEIVED BY:				DATE:				TIME:				TB202- 19			
Printed Name and Signature:				DATE:				TIME:				RECEIVED BY:			
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:			
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:			
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:			


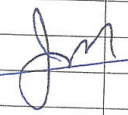
EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-221-202							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020									
				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA								QUARTER: 2 (Apr-Jun)									
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
				ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cu, Ni, Mo) (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate and Bicarbonate) (SM23208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS					
1	GW221-202	04-07-2020	1100	7				2	1	1*	1	1	1								
2																					
3																					
4																					
5																					
6																					
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																					
TB202- 20																					
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9805											
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Gabriel Begaye</i>										4-7-2020		1700		Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							


EA [®]		225 Schilling Circle Suite 400 Hunt Valley MO Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-222-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As,Pb,Ca,K,Mg) (8011)	Dissolved Fe, Mn (8020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (300.0)	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)		Carbon Dioxide (SM23208)
1	GW222-202	4-7-2020	0911	15				6	3	3*	1	1	1		Please see Comments for requested MS/MSD analytes
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe															
SAMPLER(S): J. Messenger				RELINQUISHED BY:				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9757				TB202-15			
Printed Name and Signature: Joshua Messenger				DATE: 4-7-2020				TIME: 1700				RECEIVED BY:			
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							


 225 Schling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER <b style="background-color: yellow;">COC-223-202											
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA											
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cd, K, Na, Mg) (8011)	Disolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)			
1	GW223-202	4-7-2020	0840	7				2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9768												TB202- 16	
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME			
Printed Name and Signature: <i>Joshua Messenger</i>				4-7-2020		1700		Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									


 225 Schling Circle Suite 400 Hunt Valley, MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <div style="background-color: yellow; padding: 2px; text-align: center;">COC-224-202</div>												
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020												
PROJECT SITE AND PHASE: ST 106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																		
ANALYSIS REQUIRED (Specify number of bottles)																								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(8260C)	BTEXN	(8260C)	ED8	Total (As, Pb, Cd, Ni, Mn, Mg)	Dissolved Fe, Mn	(6010C)	Chloride, bromide, sulfate	Nitrate-Nitrite	(3532)	(Total Carbonate, and Bicarbonate)	(SM2320B)	Carbon Dioxide	(RSK-175)	Metane	(RSK-175)	COMMENTS	
1	GW224-202	4-7-2020	0811	7						2	1	1*	1	1	1	1								
2																								
3																								
4																								
5																								
6																								
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																								
SAMPLER(S): <i>J. Messenger</i>												COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9768												
RELINQUISHED BY:												RECEIVED BY:												
DATE: 4-7-2020 TIME: 1700												DATE: TIME:												
Printed Name and Signature: <i>Joshua Messenger</i>												Printed Name and Signature:												
Printed Name and Signature:												Printed Name and Signature:												
Printed Name and Signature:												Printed Name and Signature:												
Printed Name and Signature:												Printed Name and Signature:												

Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-226-202							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA							
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)							
ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Disinfectant (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Comments
1	GW226-202	4-6-2020	1221	7			2	1	1*	1	1		
2													
3													
4													
5													
6													
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered													
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9941				TB202- 02					
RELINQUISHED BY:		DATE		TIME		RECEIVED BY:		DATE		TIME			
Printed Name and Signature: <i>Joshua Messenger</i>		4-6-2020		1700									
Printed Name and Signature:													
Printed Name and Signature:													
Printed Name and Signature:													

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-227-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As,Pb,Ca,K,Na,Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate, and Bicarbonate) (3332)		Carbon Dioxide (SM2320B)
1	GW227-202	4-6-2020	1150	7					2	1	1*	1	1	1	
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
<div style="display: flex; justify-content: space-between;"> <div> SAMPLER(S): <i>J. Messenger</i> RELINQUISHED BY: <i>Joshua Messenger</i> DATE: <i>4-6-2020</i> TIME: <i>1700</i> </div> <div> COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9941 RECEIVED BY: <i>John M...</i> DATE: <i>4-6-2020</i> TIME: <i>1700</i> </div> </div>															

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-229-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2 (Apr-Jun)		
ANALYSIS REQUIRED (Specify number of bottles)								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) BTEX (8260C) VOCs	(8260C) BTEX (8260C) VOCs	(8260C) BTEX (8260C) VOCs	COMMENTS
1	GW229-202	4-7-2020	1238	2				
2								
3								
4								
5								
6								
COMMENTS:								
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9735				
RELINQUISHED BY:				RECEIVED BY:				
DATE				DATE				
TIME				TIME				
Printed Name and Signature: <i>Joshua Messenger</i>				Printed Name and Signature:				
DATE: <i>4-7-2020</i>				DATE:				
TIME: <i>1700</i>				TIME:				
Printed Name and Signature:				Printed Name and Signature:				
Printed Name and Signature:				Printed Name and Signature:				



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-230-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

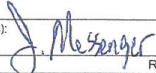
PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

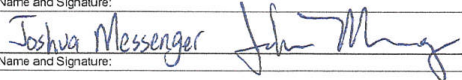
LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258


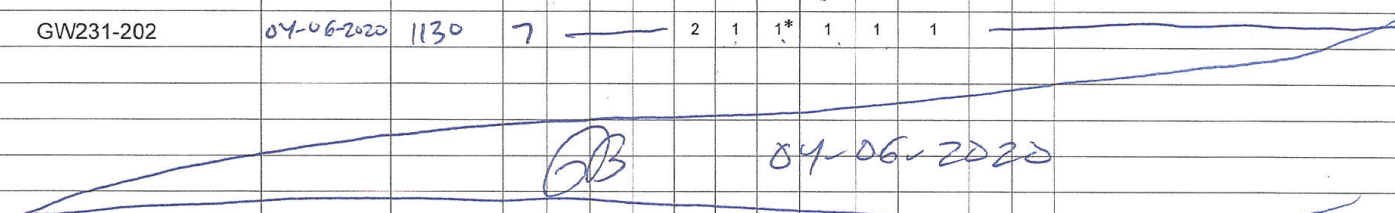
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
					VOCs (8260C)	BTEX (8260C)	ED8 (8011)	Total (As/Ph,Ca,K,Mg) (8200A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3003)	Nitrate-Nitrite (353.2)	(Total, Carbonate, and Bicarbonate) (3200)	Alkalinity (SM/220B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)	
1	GW230-202	4-10-2020	0821	7			2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	


COMMENTS: *Dissolved Fe, Mn aliquot was field filtered


SAMPLER(S):


COURIER AND SHIPPING NUMBER:
FedEx TB202-47
7702 1539 7200

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature:  Joshua Messenger	4-10-2020	1400	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-231-202									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020									
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)											
LAB CONTACT: Kay Hower		KayHower@eurofinsUS.com				Eurofins				1 (717) 556-7258											
ANALYSIS REQUIRED (Specify number of bottles)																					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(8260C)	BTEX	(8260C)	EDR	Total (As, Pb, Cd, Cu, Ni, Mn, Mg) (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS				
1	GW231-202	04-06-2020	1130	7						2	1	1*	1	1	1						
2																					
3																					
4																					
5																					
6																					
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																					
TB202-06																					
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7856											
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Galveston Begaye</i>										DATE: <i>4-6-2020</i>		TIME: <i>1700</i>		Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							
Printed Name and Signature:														Printed Name and Signature:							


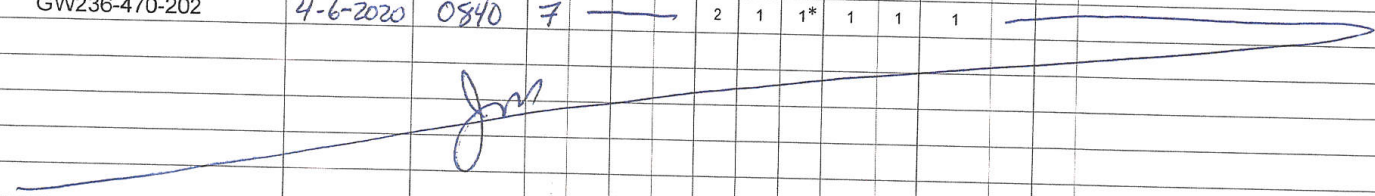
 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER					
												COC-232-202					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)							
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS	
1	GW232-202	04-06-2020	1155	7	—			2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
<div style="text-align: right;">TB202-07</div>																	
SAMPLER(S): G. Begay								COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7867									
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME						
Printed Name and Signature:						Printed Name and Signature:											
Galveston Begay				4-6-2020	1700												
Printed Name and Signature:						Printed Name and Signature:											
Printed Name and Signature:						Printed Name and Signature:											


 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-235-438-202</div>				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)				
PROJECT SITE AND PHASE: ST 106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (SM2320B)	Carbon Dioxide (826-175)	Methane (826-175)	COMMENTS
1	GW235-438-202	4-6-2020	0955	7				2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>J. Messenger</i>								COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7834								
RELINQUISHED BY:								RECEIVED BY:								
DATE: 4-6-2020 TIME: 1700								DATE: TIME:								
Printed Name and Signature: <i>Joshua Messenger</i>								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								


EA		225 Schilling Circle Suite 400 Hunt Valley MO Tel No: (410) 594-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-235-472-202		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7258								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8260C) (8260C) BTEX (8260C) BTEX	EDB (8011)	Total (As,Pb,Ca,K,Na,Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5242/20B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		(RSK-175)	
1	GW235-472-202	4-6-2020	1020	15					6	3	3*	1	1	1		Please see Comments for requested MS/MSD analytes
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe																
SAMPLER(S): J. Messenger				RELINQUISHED BY: Joshua Messenger				COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7823				TB202- 03				
Printed Name and Signature:				DATE: 4-6-2020				TIME: 1700				RECEIVED BY:				
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:				
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:				
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:				

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-235-501-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS			
				Total Number of bottles	VOCS (8260C)	BTEX (8260C)	BTXN (8260C)	ED8 (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)
1	GW235-501-202	4-6-2020	1055	7					2	1	1*	1	1	1			
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): J. Messenger																	
COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7834 TB202-04																	
RELINQUISHED BY:																	
Printed Name and Signature:		DATE		TIME		RECEIVED BY:											
Jashua Messenger		4-6-2020		1700													
Printed Name and Signature:		DATE		TIME		Printed Name and Signature:											
Printed Name and Signature:		DATE		TIME		Printed Name and Signature:											
Printed Name and Signature:		DATE		TIME		Printed Name and Signature:											

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-236-436-202																	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA																	
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)																	
ANALYSIS REQUIRED (Specify number of bottles)																							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8011)	ED8 (8260C)	BTEXN (8260C)	Total (As, Pb, Cd, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Total Carbonate and Bicarbonate (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS						
1	GW236-436-202	0820	4-6-2020	7			2	1	1*	1	1	1	1										
2																							
3																							
4																							
5																							
6																							
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																							
SAMPLER(S): <i>J. Messenger</i>								COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7845 TB202- 05															
RELINQUISHED BY:				DATE:				TIME:				RECEIVED BY:				DATE:				TIME:			
Printed Name and Signature: <i>Joshua Messenger</i>				DATE: 4-6-2020				TIME: 1700				Printed Name and Signature:				DATE:				TIME:			
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:				DATE:				TIME:			
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:				DATE:				TIME:			
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:				DATE:				TIME:			

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No (410) 584-7000 Fax No (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-236-470-202							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA							
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2 (Apr-Jun)							
ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) BTEX	ED8 (8260C) BTEXN	Total (As, Pb, Cd, Ni, Mg) (6011) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Comments
1	GW236-470-202	4-6-2020	0840	7	—	2	1	1*	1	1	1		
2													
3													
4													
5													
6													
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered													
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7845				TB202- 05					
REQUINISHED BY:				RECEIVED BY:				DATE TIME					
Printed Name and Signature: <i>Joshua Messenger</i>				Printed Name and Signature: <i>John Mung</i>				DATE TIME: 4-6-2020 1700					
Printed Name and Signature:				Printed Name and Signature:				DATE TIME:					
Printed Name and Signature:				Printed Name and Signature:				DATE TIME:					
Printed Name and Signature:				Printed Name and Signature:				DATE TIME:					

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-236-499-202				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
					VOCs	BTEX	BTEXN	ED8	Total (As, Pb, Cd, Ni, Mg)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity	Carbon Dioxide		Methane
1	GW236-499-202	4-6-2020	0910	7	2	1	1*	1	1	1						
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
<div style="text-align: right;">TB202- 06</div>																
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7856												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: <i>Joshua Messenger</i>				4-6-2020		1700										
Printed Name and Signature:																
Printed Name and Signature:																
Printed Name and Signature:																



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-240-449-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

YEAR: 2020

QUARTER: 2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs	(8260C) BTEX	(8260C) BTEXN	(8260C) EDB	(8011) Total (As,Pb,Ca,K,Na,Mg)	(6020A/6010C) Dissolved Fe, Mn	(6010C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(353.2) Alkalinity (Total, Carbonate and Bicarbonate)	(SM2320B) Carbon Dioxide	(RSK-175) Methane	
1	GW240-449-202	4-9-2020	0949	24	-	9	-	6	3	3*	1	1	1		Please see Comments for requested MS/MSD analytes	
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please run MS/MSD on the following analytes only:
VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe


Please combine these samples into one SDG and invoice SDG to 62599DM01.1017.4.14I . Sample 2 of 6

SAMPLER(S): J. Messenger

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9573

TB202-39

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Joshua Messenger	4-9-2020	1750			



225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 594-7000
Fax No: (410) 771-1025

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

PROJECT SITE AND PHASE:
ST106/SS111

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-241-428-202

YEAR:
2020

QUARTER:
2 (Apr-Jun)

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

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

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS	
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)		Methane (RSK-175)
1	GW241-428-202	4-9-2020	0811	7				2	1	1*	1	1	1			
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please combine these 5 samples into one SDG and invoice SDG to 62599DM01.1017.4.14 I . Sample 3 of 6

SAMPLER(S): J. Messenger

RELINQUISHED BY: Joshua Messenger

DATE: 4-9-2020

TIME: 1700

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9562


RECEIVED BY:

DATE:

TIME:

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-242-418-202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2 (Apr-Jun)					
						LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS
					VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	ED9 (8260C)	Total (As, Pb, Cd, Ni, Mn, Mg) (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Total Carbonate and Bicarbonate (5M2320B)	Alkalinity (5M2320B)	
1	GW242-418-202	04-06-2020	1455	7					2	1	1*	1	1	1	
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Please combine these 1 samples into one SDG and invoice SDG to 62599DM01.1017.4.14 J . Sample 1 of 6															
SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7867											TB202- 07
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Galveston Begaye				4-6-2020		1700		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

X



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

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-243-425-202

YEAR: 2020
QUARTER: 2 (Apr-Jun)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS	
				Total Number of Bottles	VOCs (8260C)	81EX (8260C)	81EXN (8260C)	ED8 (8011)	Total (As Pb, Ca, K, Na, Mg) (8011)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)		
1	GW243-425-202	04-09-2020	0830	7					2	1	1*	1	1	1				
2																		
3																		
4																		
5																		
6																		

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please combine these 5 samples into one SDG and invoice SDG to 62599DM01.1017.4.14 I . Sample 4 of 6 TB202- 40

SAMPLER(S): G. Begaye

RELINQUISHED BY: DATE: TIME: 4-9-2020 1700

Printed Name and Signature: Gabeon Begaye


COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9562

RECEIVED BY: DATE: TIME:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:



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

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

PROJECT SITE AND PHASE:
ST 106/SS111

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-244-445-202

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

YEAR: 2020

QUARTER: 2 (Apr-Jun)

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

Lab PO Number: 14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
					VOCs	(8260C) BTEX	(8260C) BTEXN	(8260C) ED8	Total (As, Pb, Cd, Cu, Ni, Mn) (8011)	Dissolved Fe, Mn (6020A/6010C)	(6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(Total, Carbonate, and Bicarbonate) (353.2)	Alkalinity (SM2208)	Carbon Dioxide (RSK-175)	
1	GW244-445-202	04-09-2020	1105	10	—	3	—	2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please combine these 5 samples into one SDG and invoice SDG to 62599DM01.1017.4.14 I . Sample 6 of 6

SAMPLER(S): G-Begaye


COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9551 TB202-41

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Gabe Began Begaye	4-9-2020	1700	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		

Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111

E-4-150

September 2020



225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 711-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-245-460-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE:
ST 106/SS111

Lab PO Number: 14800

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

YEAR: 2020

QUARTER: 2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As Pb, Ca, K, Na, Mg) (8011)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2208)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	
1	GW245-460-202	04-09-2020	1225	10	1	3	1	2	1	1*	1	1	1		
2															
3															
4															
5															
6															

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please combine these 5 samples into one SDG and invoice SDG to 62599DM01.1017.4.14 I . Sample 5 of 6 TB202-41

SAMPLER(S): 6-Begaye

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9551

RELINQUISHED BY: DATE: 4-9-2020 TIME: 1700

RECEIVED BY: DATE: TIME:



Printed Name and Signature: Gabeon Begaye

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:


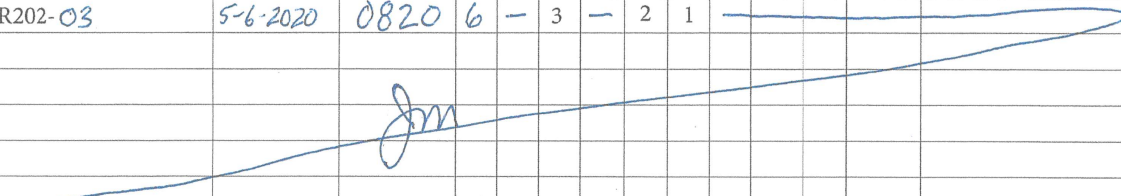
✗

 <div>225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 711-1625</div>		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-247-450-202					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)					
PROJECT SITE AND PHASE: ST106/SS111				New PO				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCS (8260C)	81EX (8260C)	81EXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2288)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS	
1	GW247-450-202	04-09-2020	1355	9	—	3	—	2	1	1*	1	—	1	—	—	—	 04-09-2020
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
Please combine these _____ samples into one SDG and invoice SDG to 62735DM02. Sample _____ of _____ TB202- 45																	
SAMPLER(S): <i>G. Begaye</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9518													
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME			
Printed Name and Signature: <i>Gabriel Begaye</i>				04-09-2020		1200											
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									

EA [®]		225 Schling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-3411-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2 (Apr-Jun)					
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS			
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	(8260C)	BTEXN (8260C)	Total (As, Pb, Cd, Ni, Mn, Mg) (6010C)	Dissolved Fe, Mn (6020A, 6010C)	Chloride, bromide, sulfate (3003)	Nitrate-Nitrite (333.2)		Alkalinity (Total Carbonate and Bicarbonate) (5423208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)
1	GW3411-202	4-24-2020	1038	7					2	1	1*	1	1	1			
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
<p style="text-align: center;">pump : 1807B - 752</p> <p style="text-align: right;">7702 4271 7403 TB202- 76</p>																	
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx <i>7702 4270 3922 X</i>													
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME						
Printed Name and Signature: <i>Joshua Messenger</i>				<i>John M...</i>	4-24-2020	1630	Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:											
Printed Name and Signature:						Printed Name and Signature:											
Printed Name and Signature:						Printed Name and Signature:											


EA										225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625										CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-ER202-01	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility					PROJECT NUMBER: 62599DM01					LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601					FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA					YEAR: 2020											
PROJECT SITE AND PHASE: ST106/SS111					LAB PO NUMBER: 14800					FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA					LAB CONTACT: Kay Hower Kay-Hower@eurofinsUS.com Eurofins 1 (717) 556-7258					QUARTER: 2											
				ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS																	
ITEM	SAMPLE IDENTIFIER				DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total As, Pb, Ca, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)															
1	ER202-01				4-22-2020	1105	6	3	2	1																					
2																															
3																															
4																															
5																															
<p>Please add Fe and Mn to total metals analysis.</p> <p>Associated with KAFB-106038</p> <p>Pump Serial Number: 1807B-752</p> <p style="text-align: right;">TB202-71</p>																															
SAMPLER(S): J. Messenger										COURIER AND SHIPPING NUMBER: 7702 4267 4863																					
RELINQUISHED BY:										RECEIVED BY:																					
DATE										DATE																					
TIME										TIME																					
Printed Name and Signature: Joshua Messenger										Printed Name and Signature:																					
4-22-2020										1730																					
Printed Name and Signature:										Printed Name and Signature:																					
Printed Name and Signature:										Printed Name and Signature:																					

EA [®]		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 594-7000 Fax No. (410) 771-1525		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-ER202-02	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2			
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (9260C) BTEX (8260C)	BTXN (8260C)	ED8 (8011)	Total As, Pb, Ca, K, Na, Mg (6020A, 6010C)	Dissolved Fe, Mn (6020A, 6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM/2320B)	COMMENTS		
1	ER202-02	4-23-2020	1115	6	3	1	2	1					<div style="text-align: center;"> </div>		
2															
3															
4															
5															
Please add Fe and Mn to total metals analysis. Associated with sm Associated with well KAFB-106019 Pump Serial Number: 1808-402														TB202- 74	
SAMPLER(S): Dylan Schmeelk				COURIER AND SHIPPING NUMBER: 7702 4269 0414											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schmeelk				4-23-2020		1730		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-ER202-03			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/IEDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/IEDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2			
PROJECT SITE AND PHASE: ST109/SS111		LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2200C)	BTEX (2200C)	BTEXN (2200C)	EDB (8011)	Total As,Pb,Ca,K,Na,Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (SM220B)	COMMENTS	
1	ER202-03	5-6-2020	0820	6	-	3	-	2	1						
2															
3															
4															
5															
Please add Fe and Mn to total metals analysis. Associated with well KAFB-106059 Pump Serial Number: 1807B-902															
SAMPLER(S): D. Schmeelk										COURIER AND SHIPPING NUMBER: 7704 0158 1592					
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Dylan Schmeelk				5-6-2020		1630		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

✓

<div style="display: inline-block; vertical-align: middle; font-size: 0.8em; margin-left: 5px;">225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625</div>		CHAIN-OF-CUSTODY RECORD										COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-S1-447-202</div>																																											
		PROJECT NAME: Kirtland AFB Bulk Fuels Facility				PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020 QUARTER: 2 (Apr-Jun)																																									
PROJECT SITE AND PHASE: ST106/SS111						New PO		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																																															
ANALYSIS REQUIRED (Specify number of bottles)																																																							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	BTEXN	ED8	Total (As, Pb, Cd, Cu, Ni, Mn)	Disolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Carbon Dioxide	Alkalinity	Comments																																								
1	GWS1-447-202	04-09-2020	1425	10	3	2	1	1*	1	1	1	1	1	1																																									
2																																																							
3																																																							
4																																																							
5																																																							
6																																																							
<div style="border: 1px solid black; padding: 5px; margin-top: 10px;">COMMENTS: *Dissolved Fe, Mn aliquot was field filtered</div> <div style="margin-top: 10px;">Please combine these samples into one SDG and invoice SDG to 62735DM02. Sample of X TB202-44</div> <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td colspan="4">SAMPLER(S): G. Begaye</td><td colspan="4">COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9529</td></tr><tr><td colspan="4">RELINQUISHED BY:</td><td colspan="4">RECEIVED BY:</td></tr><tr><td colspan="4">Printed Name and Signature: Gabriel Begaye [Signature]</td><td colspan="4">Printed Name and Signature:</td></tr><tr><td colspan="4">Printed Name and Signature:</td><td colspan="4">Printed Name and Signature:</td></tr><tr><td colspan="4">Printed Name and Signature:</td><td colspan="4">Printed Name and Signature:</td></tr></table>																SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9529				RELINQUISHED BY:				RECEIVED BY:				Printed Name and Signature: Gabriel Begaye [Signature]				Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:			
SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9529																																																			
RELINQUISHED BY:				RECEIVED BY:																																																			
Printed Name and Signature: Gabriel Begaye [Signature]				Printed Name and Signature:																																																			
Printed Name and Signature:				Printed Name and Signature:																																																			
Printed Name and Signature:				Printed Name and Signature:																																																			



225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-S2-451-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62735DM02

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

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

PROJECT SITE AND PHASE:
ST106/SS111

New PO

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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEX (8260C)	EDB (8011)	(8260C) (8260C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GWS2-451-202	04-09-2020	1510	10	3	2	1	1*	1	1	1						
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please combine these samples into one SDG and invoice SDG to 62735DM02. Sample of 15

SAMPLER(S): O. Begay

RELINQUISHED BY: O. Begay DATE: 04-09-2020 TIME: 1700

Printed Name and Signature: O. Begay

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9529


RECEIVED BY: [Signature] DATE: 04-09-2020 TIME: 1700

Printed Name and Signature: [Signature]

Printed Name and Signature: [Signature]

Printed Name and Signature: [Signature]

Printed Name and Signature: [Signature]



225 Schilling Circle Suite
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Fax No. (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-S3-449-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62735DM02

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

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

PROJECT SITE AND PHASE:
ST106/SS111

New PO

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS
					VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Dissolved Fe, Mn (6020A/6010C) Total (As, Pb, Cd, Na, Mg) (6011)	(6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	(Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide	Methane (RSK-175)	
1	GWS3-449-202	04-10-2020	1005	10	-	3	2	1	1*	1	1	1				
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please combine these samples into one SDG and invoice SDG to 62735DM02. Sample of 2

SAMPLER(S): G. Begaye


RELINQUISHED BY: G. Begaye 4-10-2020 1400

COURIER AND SHIPPING NUMBER: FedEx 7702 1539 7303

RECEIVED BY: TB202- 50

Printed Name and Signature:	DATE	TIME	Printed Name and Signature:	DATE	TIME

✓



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Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-S4-446-202

YEAR: 2020
QUARTER: 2 (Apr-Jun)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62735DM02

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

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

PROJECT SITE AND PHASE:
ST106/SS111

New PO

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


ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS	
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (8020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(Total Carbonate, and Bicarbonate)	Carbon Dioxide (SM2320B)	(RSK-175) Methane	(RSK-175)		
1	GWS4-446-202	04-09-2020	1300	10	-	3	-	2	1	1*	1	1	1					
2																		
3																		
4																		
5																		
6																		

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please combine these samples into one SDG and invoice SDG to 62735DM02.


Sample of TB202-45

SAMPLER(S): G-Begaye

RELINQUISHED BY: Gabreston Begaye  4-9-2020 1700

DATE: 4-9-2020 TIME: 1700

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9518

RECEIVED BY: 


DATE: TIME:

Printed Name and Signature: DATE: TIME:

Printed Name and Signature: DATE: TIME:

Printed Name and Signature: DATE: TIME:

Printed Name and Signature: DATE: TIME:



225 Schilling Circle Suite
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CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-S5-446-202

YEAR: 2020
QUARTER: 2 (Apr-Jun)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62735DM02

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

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

PROJECT SITE AND PHASE:
ST106/SS111

New PO

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS		
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSC-175)		Methane (RSC-175)	
1	GWS5-446-202	04-16-2020	0900	10	-	3	-	2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	


COMMENTS: *Dissolved Fe, Mn aliquot was field filtered


Please combine these samples into one SDG and invoice SDG to 62735DM02. Sample of TB202-60

SAMPLER(S): G. Begaye

COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5967

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: <u>Galveston Begaye</u>	<u>4-16-2020</u>	<u>1900</u>	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER			
												CQC-S7-451-202			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		New PO				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2 (Apr-Jun)					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM23208)	Carbon Dioxide (RSC-175)	Comments
1	GWS7-451-202	04-16-2020	0925	10	-	3	-	2	1	1*	1	1	1		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Please combine these 1 samples into one SDG and invoice SDG to 62735DM02. 1018.02 Sample 1 of 1 TB202-62															
SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 7702 4261 6356											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Galveston Begaye				4-16-2020		1900		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							



225 Schilling Circle Suite
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Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-S8-451-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62735DM02

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

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

PROJECT SITE AND PHASE:
ST 106/SS111

New PO

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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
					VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cd, Ni, Mn) (6011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (52320B)	Carbon Dioxide (RISK-175)	Methane (RISK-175)	(RISK-175)		
1	GWS8-451-202	04-10-2020	0925	10	1	3	1	2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please combine these samples into one SDG and invoice SDG to 62735DM02.

Sample of TB202- 50

SAMPLER(S):
G-Begaye

RELINQUISHED BY:
Gabeon Begaye

DATE
4-10-2020

TIME
1400

COURIER AND SHIPPING NUMBER:
FedEx 7702 1539 7303

RECEIVED BY:

DATE


TIME

Printed Name and Signature:
Gabeon Begaye

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:



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Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-S9-447-202

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62735DM02

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

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

PROJECT SITE AND PHASE:
ST106/SS111

New PO

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

YEAR:
2020

QUARTER:
2 (Apr-Jun)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Disolved Fe, Mn (6020A/6010C) Total (As, Pb, Ca, Na, Mg)	ED8 (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate and Bicarbonate) (5M23208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GWS9-447-202	04-16-2020	1220	10	3	-	2	1	1*	1	1	1				
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please combine these samples into one SDG and invoice SDG to 62735DM02. Sample of **TB202-61**

SAMPLER(S): **G. Begaye**

RELINQUISHED BY: **Galveston Begaye** DATE: **4-16-2020** TIME: **1900**

Printed Name and Signature: **Galveston Begaye**

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

COURIER AND SHIPPING NUMBER: **FedEx 7702 4261 6356**


RECEIVED BY: DATE: TIME:

Printed Name and Signature:


Printed Name and Signature:


Printed Name and Signature:


Printed Name and Signature:


 <div>225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025</div>		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-SWB202-01			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(2000) VOCs	(2000) BTX	(2000) BTXN	(2000) EOB	(2000) Total As, Pb, Cd, Cr, Ni, Mn	(2000) Dissolved Fe, Mn	(2000) Chloride, bromide, sulfate	(2000) Nitrate-Nitrite	(2000) Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS	
1	SWB202-01	4-15-2020	1545	6	3	2	1								
2															
3															
4															
5															
Please add Fe and Mn to total metals analysis.															
Associated with: ESS lab grade water															
TB202-52															
SAMPLER(S): J. Messenger										COURIER AND SHIPPING NUMBER: 7702 4261 5349					
RELINQUISHED BY:										RECEIVED BY:					
DATE										DATE					
TIME										TIME					
Printed Name and Signature: Joshua Messenger										Printed Name and Signature:					
4-16-2020 1900															
Printed Name and Signature:										Printed Name and Signature:					
Printed Name and Signature:										Printed Name and Signature:					


EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER <i>COC-SWB202-02</i> COC-ER202	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	Total As, Pb, Cd, Cr, Ni, Mn	(6010C) Dissolved Fe, Mn	(6020A, 6010C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(353.2) Alkalinity (Total Carbonate and Bicarbonate)	COMMENTS	
1	<i>JM</i> ER202-SWB202-02	5-6-2020	1515	6	-	3	-	2	1					<i>JM</i>	
2															
3															
4															
5															
Please add Fe and Mn to total metals analysis.															
Pump Serial Number: <i>JM</i> Associated with Crystal Springs DI water (5-gallon) TB202- 89															
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: 7704 0158 1592											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: <i>Joshua Messenger</i>				<i>JM</i>	5-6-2020	1630									
Printed Name and Signature:															
Printed Name and Signature:															
Printed Name and Signature:															

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202-01							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
		ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCS (8260C)	BTEX (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8200A, 8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)	COMMENTS
1	TB202-01	4/6/2020	1215	2	-	X	-	2					
2													
3													
4													
5													
Associated with: GW225-202 GW225-662													
SAMPLER(S): <i>Amanda Smith</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9930									
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME						
Printed Name and Signature: <i>Amanda H Smith</i>		4/6/2020	1700	Printed Name and Signature: <i>Scott M Jones</i>									
Printed Name and Signature: _____				Printed Name and Signature: _____									
Printed Name and Signature: _____				Printed Name and Signature: _____									
Printed Name and Signature: _____				Printed Name and Signature: _____									


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 02									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14900		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(2000C) VOCs	(8200C) BTEX	(8200C) BTEXN	(8200C) EDB	(8011) Total As, Pb, Cd, Ni, Mn	(6020A, 6010C) Dissolved Fe, Mn	(6010C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(233.2) Alkalinity (Total, Carbonate, and Bicarbonate)	(5M2320B)	COMMENTS
1	TB202- 02	4/6/2020	1215	2 - X -				2							
2															
3															
4															
5															
Associated with: GW226-202 GW227-202															
SAMPLER(S): Amanda Smith				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9941											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Amanda M Smith				4/6/2020		1700									
Printed Name and Signature:															
Printed Name and Signature:															
Printed Name and Signature:															


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 03							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2							
ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8230C)	BTEX (8230C)	EDB (8230C)	(8011)	Dissolved Fe, Mn (6020, 6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM/2320B)	COMMENTS
1	TB202- 03	4/6/2020	1215	2	-	AS	-	2					
2													
3													
4													
5													
Associated with: ² GW235-477-202 AS													
SAMPLER(S): <u>Amanda Smith</u>				COURIER AND SHIPPING NUMBER: <u>FedEx 8155 2829 7823</u>									
RELINQUISHED BY:		DATE		TIME		RECEIVED BY:		DATE		TIME			
<u>Amanda M Smith</u>		<u>4/6/2020</u>		<u>1700</u>									
Printed Name and Signature:						Printed Name and Signature:							
						Printed Name and Signature:							
						Printed Name and Signature:							
						Printed Name and Signature:							


 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202-04									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2426 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8280C)	BTEX (8280C)	EDB (8280C)	Total As, Pb, Cd, K, Na, Mg (8280A/8280C)	Dissolved Fe, Mn (8280C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total Carbonate and Bicarbonate) (353.2)	COMMENTS		
1	TB202-04	4/16/2020	1215	2	-	AS	-	2							
2															
3															
4															
5															
Associated with: GW235-438-202 GW235-501-202															
SAMPLER(S): <i>Amanda Smith</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7834											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Amanda M Smith</i>				DATE: 4/16/2020		TIME: 1700		Printed Name and Signature:				DATE:		TIME:	
Printed Name and Signature:				DATE:		TIME:		Printed Name and Signature:				DATE:		TIME:	
Printed Name and Signature:				DATE:		TIME:		Printed Name and Signature:				DATE:		TIME:	
Printed Name and Signature:				DATE:		TIME:		Printed Name and Signature:				DATE:		TIME:	


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202-05									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
		ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8290C)	BTEX (8290C)	ED8 (8011)	Total As Pb Cd Cr Ni Na Mg (8020A, 8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (SM2320B)	COMMENTS		
1	TB202-05	4/6/2020	1215	2	-	X	-	2							
2															
3															
4															
5															
Associated with: GW230-430-202 GW230-470-202															
SAMPLER(S): <i>Amanda Smith</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7845											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Amanda M Smith</i>				4/6/2020		1700		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							


EA 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 06				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2				
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (2030C)	BTEX (2030C)	BTEXN (2030C)	ED8 (2011)	Total As, Pb, Cd, Cu, Ni, Mn (2020A/2010C)	Dissolved Fe, Mn (2010C)	Chloride, bromide, sulfate (2010C)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB202- 06	4/16/2020	1215	2	-	X	-	2								
2																
3																
4																
5																
Associated with: GW236-499-202 GW231-202																
SAMPLER(S): Amanda Smith								COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7856								
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME					
Printed Name and Signature:								Printed Name and Signature:								
Amanda M Smith				4/16/2020		1700										
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								


 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 07									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8290C)	BTEX (8290C)	EDB (8290C)	EDB (8290C)	Total As, Pb, Cd, K, Na, Mg (8011)	Dissolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (8010C)	Nitrate-Nitrite (300.0)	Alkalinity (Total, Carbonate, and Bicarbonate) (333.2)	COMMENTS	
1	TB202- 07	4/6/2020	1215	2	-	X	-	2							
2															
3															
4															
5															
Associated with: GW232-202 GW242-418-202															
SAMPLER(S): <i>Amanda Smith</i>				COURIER AND SHIPPING NUMBER: FedEx <i>8155 2829 7867</i>											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Amanda H Smith</i>				4/6/2020											
Printed Name and Signature:															
Printed Name and Signature:															
Printed Name and Signature:															

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER															
												COC-TB202- 08															
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020															
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2															
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																					
ANALYSIS REQUIRED (Specify number of bottles)																											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(2260C)	BTEXN	(2260C)	EDB	(2011)	Total As, Pb, Cd, Cr, Na, Mg	(6010C)	Disolved Fe, Mn	(6020A, 6010C)	Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite	(353.2)	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS						
1	TB202- 08	4/6/2020	1245	2	-	AS	-	-	2																		
2																											
3																											
4																											
5																											
Associated with: GW030-202 GW031-202																											
SAMPLER(S): Amanda Smith										COURIER AND SHIPPING NUMBER: FedEx 8155 2829 7878																	
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:										DATE		TIME	
Printed Name and Signature:														Printed Name and Signature:													
Amanda M Smith										4/6/20		1700															
Printed Name and Signature:														Printed Name and Signature:													
Printed Name and Signature:														Printed Name and Signature:													


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-TB202-09</div>										
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020								
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8290C)	BTEX (8290C)	BTEXN (8290C)	EDB (8011)	Total As, Pb, Cu, K, Na, Mg (8020/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (SM2320B)			
1	TB202-09	4/6/2020	1245	2	-	AS	-	2								
2																
3																
4																
5																
Associated with: GW085-202 GW085-602																
SAMPLER(S): <i>Amanda Smith</i> RELINQUISHED BY: _____ DATE _____ TIME _____								COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9860 RECEIVED BY: _____ DATE _____ TIME _____								
Printed Name and Signature: <i>Amanda M Smith</i> <i>Amanda M Smith</i> 4/6/2020 1700								Printed Name and Signature: _____								
Printed Name and Signature: _____								Printed Name and Signature: _____								
Printed Name and Signature: _____								Printed Name and Signature: _____								


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202-10									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
		ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8290C)	BTEX (8290C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS		
1	TB202-10	4/6/2020	1245	2	2	2	2	2	2	2	2	2			
2															
3															
4															
5															
Associated with: GW029-202 GW021-202															
SAMPLER(S): <i>Amcanda Smith</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9850											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Carle M. Jones & Amcanda M. Smith</i>				4/6/2020		1700									
Printed Name and Signature:															
Printed Name and Signature:															
Printed Name and Signature:															


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 11									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
		ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8250C)	BTEX (8250C)	BTEXN (8250C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8020, 8010C)	Dissolved Fe, Mn (8020, 8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS	
1	TB202- 11	4/6/2020	1245	2	-	X	-	2							
2															
3															
4															
5															
Associated with: GN086-202 GN087-202															
SAMPLER(S): <u>Amanda Smith</u>				COURIER AND SHIPPING NUMBER: <u>FedEx 8137 2505 9849</u>											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <u>Amanda M Smith</u>				4/6/2020		1700		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							


 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-TB202- 12																																																																																																									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020																																																																																																									
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 2																																																																																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ITEM</th> <th rowspan="2">SAMPLE IDENTIFIER</th> <th rowspan="2">DATE COLLECTED</th> <th rowspan="2">TIME COLLECTED</th> <th colspan="10">ANALYSIS REQUIRED (Specify number of bottles)</th> <th rowspan="2">COMMENTS</th> </tr> <tr> <th>Total Number of Bottles</th> <th>VOCs (8260C)</th> <th>BTEX (8260C)</th> <th>BTXN (8260C)</th> <th>EDB (8011)</th> <th>Dissolved Pb, Mn (8020A/8010C)</th> <th>Chloride, bromide, sulfate (300.0)</th> <th>Nitrate-Nitrite (353.2)</th> <th>Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>TB202- 12</td> <td>4/10/2020</td> <td>1245</td> <td>2</td> <td>AS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td>AS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>														ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Dissolved Pb, Mn (8020A/8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)	1	TB202- 12	4/10/2020	1245	2	AS											2																3																4					AS											5															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)														COMMENTS																																																																																																			
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Dissolved Pb, Mn (8020A/8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)																																																																																																									
1	TB202- 12	4/10/2020	1245	2	AS																																																																																																																
2																																																																																																																					
3																																																																																																																					
4					AS																																																																																																																
5																																																																																																																					
Associated with: GW022-202 GW015-202																																																																																																																					
SAMPLER(S): <u>Ammanda Smith</u>																																																																																																																					
RELINQUISHED BY: _____ DATE _____ TIME _____																																																																																																																					
COURIER AND SHIPPING NUMBER: FedEx 8137 2505 9838																																																																																																																					
RECEIVED BY: _____ DATE _____ TIME _____																																																																																																																					
Printed Name and Signature: <u>Ammanda M Smith</u> 4/10/2020 1700																																																																																																																					
Printed Name and Signature: _____																																																																																																																					
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EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-^{JM} 13	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2			
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(2000) VOCs	(2000) BTEX	(2000) BTXN	(2000) EDB	Total As, Pb, Cd, Cr, Ni, Mn (2000)	Disolved Fe, Mn (2000)	Chloride, bromide, sulfate (2000)	Nitrate-Nitrite (2000)	(2000) Alkalinity (Total Carbonate and Bicarbonate)	COMMENTS	
1	TB202- ^{JM} 13	4/7/2020	1300	2	-	X	-	2	-	-	-	-	-		
2															
3															
4															
5															
Associated with: GW229-202 GW204-202															
SAMPLER(S): <i>Amanda Smith</i>				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 ^{AS} 9735											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: <i>Amanda Smith</i>				4/7/2020	1700	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202-0214								
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA								
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258										
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(2260C) BTEXN	EDB (8011)	Total As, Pb, Cd, Cr, Ni, Mn (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Arsenite (Total As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	COMMENTS
1	TB202-0214	4/7/2020	1300	4	AS			2						
2	JTA													
3														
4					AS									
5														
Associated with: GW205-202 GW206-202														
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 1565 9146										
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME							
Amanda Smith / [Signature]		4/7/2020	1700											
Printed Name and Signature:				Printed Name and Signature:										
Printed Name and Signature:				Printed Name and Signature:										
Printed Name and Signature:				Printed Name and Signature:										


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202-0815																																																																																																																								
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA																																																																																																																								
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2																																																																																																																								
<table border="1"> <thead> <tr> <th rowspan="2">ITEM</th> <th rowspan="2">SAMPLE IDENTIFIER</th> <th rowspan="2">DATE COLLECTED</th> <th rowspan="2">TIME COLLECTED</th> <th colspan="12">ANALYSIS REQUIRED (Specify number of bottles)</th> <th rowspan="2">COMMENTS</th> </tr> <tr> <th>Total Number of Bottles</th> <th>(2500C) VOCs</th> <th>BTEX</th> <th>(8260C) BTEXN</th> <th>(8260C) ED8</th> <th>(8011) ED8</th> <th>Total As, Pb, Cd, Ni, Mg (6020A/6010C)</th> <th>Disolved Fe, Mn (6020A/6010C)</th> <th>(6010C) Chloride, bromide, sulfate</th> <th>(3000) Nitrate-Nitrite</th> <th>(3532) Alkalinity (Total, Carbonate, and Bicarbonate)</th> <th>(SM2320B)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>TB202-0815</td> <td>4/7/2020</td> <td>1300</td> <td>2</td> <td>-</td> <td>-</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Jm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS	Total Number of Bottles	(2500C) VOCs	BTEX	(8260C) BTEXN	(8260C) ED8	(8011) ED8	Total As, Pb, Cd, Ni, Mg (6020A/6010C)	Disolved Fe, Mn (6020A/6010C)	(6010C) Chloride, bromide, sulfate	(3000) Nitrate-Nitrite	(3532) Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	1	TB202-0815	4/7/2020	1300	2	-	-	2											2	Jm																	3																		4																		5																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS																																																																																																														
				Total Number of Bottles	(2500C) VOCs	BTEX	(8260C) BTEXN	(8260C) ED8	(8011) ED8	Total As, Pb, Cd, Ni, Mg (6020A/6010C)	Disolved Fe, Mn (6020A/6010C)	(6010C) Chloride, bromide, sulfate	(3000) Nitrate-Nitrite	(3532) Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)																																																																																																															
1	TB202-0815	4/7/2020	1300	2	-	-	2																																																																																																																							
2	Jm																																																																																																																													
3																																																																																																																														
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5																																																																																																																														
Associated with: GW222-202 GW222-200																																																																																																																														
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2505-9757																																																																																																																										
RELINQUISHED BY:		DATE		TIME		RECEIVED BY:																																																																																																																								
Printed Name and Signature: <i>Amanda Smith</i>		4/7/2020		1700		Printed Name and Signature:																																																																																																																								
Printed Name and Signature:						Printed Name and Signature:																																																																																																																								
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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202-0416									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	(2500C) VOCs	(2500C) BTEX	(2500C) BTEXN	(2500C) EDB	(2500C) Total As, Pb, Cd, Ni, Cr, Hg	(2500C) Dissolved Fe, Mn	(2500C) Chloride, bromide, sulfate	(2500C) Nitrate-Nitrite	(2500C) Alkalinity (Total Carbonate and Bicarbonate)		
1	TB202-0416	4/7/2020	1300	2	1	1	1	1	1	1	1	1	1		
2	JM														
3															
4															
5															
Associated with: GW223-202 GW224-202															
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9768											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Amanda Smith				4/7/2020		1700		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER 17 COC-TB202- 0208 AS									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	BTEXN	EDB	Total As, Pb, Cd, Cr, Ni, Mn	Dispersed Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	(353.2)	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS
1	TB202- 05 17	4/7/2020	1300	2	-	2	-	2							
2	Jim														
3															
4															
5															
Associated with: GW 216-202 GW 216-202															
SAMPLER(S): AS								COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9779							
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: <i>Amanda Smith</i>				4/7/2020	1700	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									


 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202-0618																	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA																	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7268																			
		ANALYSIS REQUIRED (Specify number of bottles)																					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(BTEX)	(BTEX)	EDB	(BTEX)	Total As, Pb, Cu, Ca, Na, Mg	Dissolved Fe, Mn	Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite	(353.2)	(Total Carbonate and Bicarbonate)	(SM/2320B)	COMMENTS				
1	TB202- ^{JM} 0618	4/7/2020	1300	2	-	AS	-	2															
2																							
3																							
4																							
5																							
Associated with: GW217-202 GW218-202																							
SAMPLER(S): ^{AS}										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9780													
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:									
Printed Name and Signature: <i>Amanda Smith</i>										DATE: 4/7/2020		TIME: 1700		Printed Name and Signature:									
Printed Name and Signature:														Printed Name and Signature:									
Printed Name and Signature:														Printed Name and Signature:									
Printed Name and Signature:														Printed Name and Signature:									

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1525		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER SM COC-TB202-0719	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/IEDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/IEDD TO: Pam Moss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258			
				ANALYSIS REQUIRED (Specify number of bottles)			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(9010C) Disinfectant, Fm, Mn (6020A/6010C) Total As, Pb, Cd, Cr, Ni, Mg	(9010C) Chloride, bromide, sulfate (300.0) Nitrate-Nitrite (353.2)	(5M2320B) Alkalinity (Total, Carbonate, and Bicarbonate)
1	TB202- 07 19 SM	4/7/2020	1300	2 - AS	2		
2							
3							
4							
5							
Associated with: GW219-202 GW220-202							
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9790			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
Printed Name and Signature: Amanda Smith <i>Amanda Smith</i>		4/7/2020	1300	Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1525		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER <i>SM</i> COC-TB202- 06 20			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins				1 (717) 556-7258					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8011)	Dissolved Fe, Mn (8020A/8010C)	(8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate and Bicarbonate) (SM220B)	COMMENTS
1	TB202- <i>SM</i> 06 20	4/7/2020	1300	2	-	<i>A</i>	-	2							
2															
3															
4															
5															
Associated with: <i>GN221-202</i> <i>GN201-202</i>															
SAMPLER(S): <i>AS</i>								COURIER AND SHIPPING NUMBER: FedEx <i>8137 2545 9805</i>							
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature:						Printed Name and Signature:									
<i>Amanda Smith</i>				4/7/2020 1700											
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 171-1525		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202-0921 ^{AS}							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total As, Pb, Cd, Cr, Ni, Mn (8011)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)	COMMENTS
1	TB202- 09 21 ^{AS}	4/7/2020	1300	2 - X - 2									
2													
3													
4													
5													
Associated with: GW202-202 GW203-202													
SAMPLER(S): ^{AS}				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9816									
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME						
Printed Name and Signature: <i>Amanda Smith</i> <i>Carole M. Jones</i>		4/7/2020	1700	Printed Name and Signature:									
Printed Name and Signature:				Printed Name and Signature:									
Printed Name and Signature:				Printed Name and Signature:									


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER <i>AS</i> COC-TB202-1022	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258			
ANALYSIS REQUIRED (Specify number of bottles)							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(3260C) BTEX	(3260C) BTEXN	COMMENTS
1	TB202- 10 <i>AS</i> 22	4/7/2020	1300	2 - X -			
2							
3							
4							
5							
Associated with: GW055-202 GW057-202							
SAMPLER(S): <i>AS</i>				COURIER AND SHIPPING NUMBER: FedEx <i>8137 2565-9827</i>			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
Printed Name and Signature: <i>Amanda Smith Carol M Just</i>		4/7/2020	1700	Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 23	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2	

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS		
				Total Number of Bottles	VOCs	BTEX	(BTEXN)	(BTEXN)	EDB	(B011)	Total As, Pb, Cd, Ni, Mn	(B010C)	Disolved Fe, Mn	Chloride, bromide, sulfate		(B010C)	Nitrate-Nitrite
1	TB202- 23	4/8/2020	1300	2	-	AS	-	2									
2																	
3																	
4																	
5																	


Associated with: GW091-202
GW091-002

SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9724			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
Printed Name and Signature: <i>Amanda Smith</i>		4/8/2020	1700	Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-TB202- 24</div>								
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/IEDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/IEDD TO: Pam Moss: pmoss@eaest.com EA								
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Howler Kay-Howler@eurofinsUS.com Eurofins 1 (717) 556-7258										
		ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	EDB	Total As, Pb, Cu, K, Na, Mg	Dissolved Pb, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS
1	TB202- 24	4/8/2020	1300	2	-	X	-	2						
2														
3														
4														
5														
Associated with: GW092-202 GW093-202														
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2505 9713										
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME							
Printed Name and Signature: Amanda Smith <i>Amanda Smith</i>		4/8/2020	1700	Printed Name and Signature:										
Printed Name and Signature:				Printed Name and Signature:										
Printed Name and Signature:				Printed Name and Signature:										
Printed Name and Signature:				Printed Name and Signature:										

EA [®]		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				COC-TB202- 25			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020 QUARTER: 2			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, Ni, Mn (6020A6010C)	Disinfectant Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)		
1	TB202- 25	4/8/2020	1300	2	-	AS	-	2							
2															
3															
4															
5															
Associated with: GW052-202 GW053-202															
SAMPLER(S): AS								COURIER AND SHIPPING NUMBER: FedEx 8137 2505 9702							
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Amanda Smith				4/8/2020		1700		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							


EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 26	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2					
						LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8260C)	(8011)	Total As, Pb, Cd, Ni, Mn (8201A6010C)	Disolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)		Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)
1	TB202- 26	4/8/2020	1300	2	-	AS	-	2							
2															
3															
4															
5															
Associated with: GW054-202 GW025-202															
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9698											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Amanda Smith				4/8/2020		1700		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 28							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
		ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS
1	TB202- 28	4/8/2020	1300	2	-	X	-	2					
2													
3													
4													
5													
Associated with: GW105-202 GW107-202													
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2505 9676									
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:					
Printed Name and Signature: Amanda Smith				DATE: 4/8/2020		TIME: 1700		Printed Name and Signature:					
Printed Name and Signature:				DATE:		TIME:		Printed Name and Signature:					
Printed Name and Signature:				DATE:		TIME:		Printed Name and Signature:					
Printed Name and Signature:				DATE:		TIME:		Printed Name and Signature:					


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PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
		ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	(8011)	Total As, Pb, Cd, Ni, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS	
1	TB202- 29	4/8/2020	1300	2	-	AS	-	2							
2															
3															
4						AS									
5															
Associated with: CN 212-202 CN 213-202															
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9605											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Amanda Smith / Pam Moss				4/8/2020		1700		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							


EA 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 30															
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020															
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2															
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS													
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	ED8 (8260C)	ED8 (8260C)	ED8 (8260C)	ED8 (8260C)	ED8 (8260C)	ED8 (8260C)		ED8 (8260C)												
1	TB202- 30	4/8/2020	1300	2	-	AS	-	2	-	-	-	-	-	-	-	-	-	-	-	-							
2																											
3																											
4																											
5																											
Associated with: GW214-202 GW215-202																											
SAMPLER(S): AS										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9654																	
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:										DATE		TIME	
Printed Name and Signature: Amanda Smith										4/8/2020		1700															
Printed Name and Signature:																											
Printed Name and Signature:																											
Printed Name and Signature:																											


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 31						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA						
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
		ANALYSIS REQUIRED (Specify number of bottles)										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Disinfectant Res. Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (SM2320B)	COMMENTS
1	TB202- 31	4/8/2020	1300	2	-	AS	-	2				
2												
3												
4												
5												
Associated with: GW035-202 GW036-202												
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2505 9043								
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				
Printed Name and Signature: <i>Amanda Smith</i>				4/8/2020		1700		Printed Name and Signature:				
Printed Name and Signature:								Printed Name and Signature:				
Printed Name and Signature:								Printed Name and Signature:				
Printed Name and Signature:								Printed Name and Signature:				


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 225 Schling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 32											
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA											
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(2280C) BTENX	(2280C) BTENX	(2280C) BTENX	(2280C) BTENX	(2280C) BTENX	(2280C) BTENX	(2280C) BTENX	(2280C) BTENX	(2280C) BTENX	(2280C) BTENX	(2280C) BTENX	(2280C) BTENX	COMMENTS
1	TB202- 32	4/8/2020	1300	2	-	X	-	2									
2																	
3																	
4																	
5																	
Associated with: GW037-202 GW037-602																	
SAMPLER(S): AS								COURIER AND SHIPPING NUMBER: FedEx 8137 2505 9632									
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME			
Printed Name and Signature: <i>Amanda Smith</i>				4/8/2020		1700		Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									

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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 33																	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA																	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS									
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total As,Pb,Ca,K,Na,Mg (8209A8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)										
1	TB202- 33	4/8/2020	1300	2	-	AS	-	2															
2																							
3																							
4																							
5																							
Associated with: GW032-202																							
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9621																			
RELINQUISHED BY:				DATE				TIME				RECEIVED BY:				DATE				TIME			
Printed Name and Signature: Amanda Smith				4/8/2020				1700															
Printed Name and Signature:																							
Printed Name and Signature:																							
Printed Name and Signature:																							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 34							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
		ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(2560C) VOCs	(2560C) BTEX	(2560C) EDB	(8011) Total As, Pb, Ca, K, Na, Mg	(6010C) Dissolved Fe, Mn	(6010C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(353.2) Alkalinity (Total Carbonate, and Bicarbonate)	COMMENTS
1	TB202- 34	4/8/2020	1300	2	AS	AS	AS	AS	AS	AS	AS	AS	
2													
3													
4													
5													
Associated with: GW033-202 GW034-202													
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2515 9920									
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME		
Printed Name and Signature: Amanda Smith				4/8/2020	1700	Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							



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

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

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

COC NUMBER
COC-TB202- 35

YEAR:
2020

QUARTER:
2


PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER:
14800

Associated with:
6W041-202
6W042-202

SAMPLER(S): AS

COURIER AND SHIPPING NUMBER: FedEx 8137 2505 9010



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Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB202-36

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

YEAR:
2020

QUARTER:
2

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER:
14800

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


ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS		
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8260C)	Total As, Pb, Cd, Ni, Mn (9011)	Disolved Fe, Mn (6020A/610C)	(6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(SM/23209) Alkalinity (Total, Carbonate, and Bicarbonate)			
1	TB202-36	4/9/2020	1300	2	-	X	-	2									
2																	
3																	
4																	
5																	

Associated with:
GW058-202
GW058-602

SAMPLER(S): AS

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9600

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Amanda Smith Carole M. Jones	4/9/2020	1700	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		



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400 Hunt Valley MD
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Fax No. (410) 771-1625

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER:
14800

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

COC NUMBER
COC-TB202-37

YEAR:
2020

QUARTER:
2


ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS			
				Total Number of Bottles	VOCs	BTEX	BTEXN	(B200C)	EDB	(B011)	Total As,Pb,Cd,Kr,Hg,Mg	(B020A,B010C)	Dissolved Fe, Mn	(B010C)		Chloride, bromide, sulfate	(B0010)	Nitrate-Nitrite
1	TB202-37	4/9/2020	1300	2	-	AS	-	2										
2																		
3																		
4																		
5																		


Associated with:
GW050-202
GW051-202

SAMPLER(S): AS

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9595

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Amanda Smith	4/9/2020	1700	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COQ NUMBER COC-TB202- 38							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2							
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
ANALYSIS REQUIRED (Specify number of bottles)																			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOOCs (2280C)	BTEX (2280C)	BTEXM (2280C)	EDB (2280C)	(2280C)	Total As,Pb,Ca,K,Mg,Mn (2280C)	Dissolved Fe, Mn (2280C)	Chloride, bromide, sulfate (2280C)	Nitrate-Nitrite (2280C)	(2280C)	(2280C)	Alkalinity (Total, Carbonate and Bicarbonate) (2280C)	COMMENTS		
1	TB202- 38	4/9/2020	1300	2	-	X	-	2											
2																			
3																			
4																			
5																			
Associated with: 6W043-202 6W049-202																			
SAMPLER(S): AS										COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9584									
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:												DATE	TIME
Printed Name and Signature: Amanda Smith				4/9/2020	1700	Printed Name and Signature:													
Printed Name and Signature:						Printed Name and Signature:													
Printed Name and Signature:						Printed Name and Signature:													
Printed Name and Signature:						Printed Name and Signature:													



225 Schilling Circle Suite
400 Hunt Valley MD
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Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB202-39

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

YEAR:
2020

QUARTER:
2

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER:
14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs	BTEX	BTEXN	EDB	Total As, Pb, Cu, K, Na, Mg	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)		
1	TB202-39	4/9/2020	1300	4	-	2	-	2							
2															
3															
4															
5															

Associated with: GW240-449-202


SAMPLER(S): AS

COURIER AND SHIPPING NUMBER: FedEx 9137 2565 9573

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Amanda Smith Amanda M Smith	4/9/2020	1700	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		

4

EA 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 40		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2		
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED9 (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS
1	TB202- 40	4/9/2020	1300	2	-	AS	-	2						
2														
3														
4						AS								
5														
Associated with: GW241-428-202 GW243-460-202 425														
SAMPLER(S): AS								COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9562						
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME			
Printed Name and Signature:						Printed Name and Signature:								
Amanda Smith				4/9/2020	1700									
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								



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

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

PROJECT SITE AND PHASE: ST106/SS111

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB202- 41

YEAR:
2020

QUARTER:
2

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

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

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS	
				Total Number of Bottles	VOCs (2280C)	BTEX (2280C)	BTEXN (2280C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(Total Alkalinity, Carbonate, and Bicarbonate) (SM2320B)			
1	TB202- 41	4/9/2020	1300	4	-	2	-	2								
2																
3																
4																
5																


Associated with:

GW244-445-202
GW245-400-202

SAMPLER(S): AS

COURIER AND SHIPPING NUMBER: FedEx 8137 2505 951

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Amanda Smith Carol M Jones	4/9/2020	1700	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		



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Fax No. (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB202-42

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

YEAR:
2020

QUARTER:
2

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER:
14800

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


ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS		
				Total Number of Bottles	VOCs (6230C)	BTEX (6230C)	BTEXN (6230C)	EDB (6011)	Total As,Pb,Ca,K,Na,Mg (6200A,6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)				
1	TB202- 42	4/9/2020	1300	2	-	AS	-	2									
2																	
3																	
4																	
5																	

Associated with:
GWO88-202
GWO88-602

SAMPLER(S): AS

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9540

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Amanda Smith Caitlin McLean	4/9/2020	1700	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		



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Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-TB202-43

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER:
14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, Bromide, Sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB202-43	4/9/2020	1300	2	-	AS	-	2								
2																
3																
4																
5																

Associated with:

GW089-202
GW090-202

SAMPLER(S): AS

RELINQUISHED BY:

DATE

TIME

COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9530

RECEIVED BY:

DATE

TIME

Printed Name and Signature: Amanda Smith

4/9/2020


1700

Printed Name and Signature:

Printed Name and Signature:


Printed Name and Signature:

✓

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 44		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020		
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2		
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	(9011)	Total As, Pb, Cu, Ni, Mg (6020A8010C)	Disolved Fe, Mn (6020A8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SW2320B)	COMMENTS
1	TB202- 44	4/9/2020	1300	4	-	2	-	2						
2														
3														
4														
5														
Associated with: GWS1-447-202 GWS2-451-202														
SAMPLER(S): AS				COURIER AND SHIPPING NUMBER: FedEx 8137 2565 9529										
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME			
Printed Name and Signature: Amanda Smith				4/9/2020	1700	Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								



EA® 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB202-46									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (22800)	BTEX (22800)	BTEXN (22800)	EDB (2011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	(Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB202-46	4-10-2020	1200	2	2	2	2								
2															
3															
4															
5															
Associated with: GW023-202 GW026-202															
SAMPLER(S): D. Schneelk															
COURIER AND SHIPPING NUMBER: FedEx 7702 1539 7623															
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schneelk				4-10-2020		1400									
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							



226 Schling Circle Suite
400 Hunt Valley MD
Tel No. (410) 594-7020
Fax No. (410) 771-1525

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-TB202-47

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER:
14800

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 656-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total As Pb Cd Cr Cu Ni Mn (8200A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)			
1	TB202-47	4-10-2020	1200	2	2	2	2	2								
2																
3																
4																
5																

Associated with: GW103-202
GW230-202

SAMPLER(S): D. Schmeelk

RELINQUISHED BY: DATE TIME

Printed Name and Signature: D. Schmeelk 4-10-2020 1400

COURIER AND SHIPPING NUMBER: FedEx 7702 1939 7200


RECEIVED BY: DATE TIME

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:



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Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB202-48

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

PROJECT SITE AND PHASE: ST108/SS111

LAB PO NUMBER:
14800

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

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTENX	(8260C) EOB	(8011) Total As,Pb,Ca,K,Mg,Mn	(6010C) Dissolved Fe, Mn	Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(353.2) Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)		
1	TB202-48	4-10-2020	1200	2	2	2	2	2								
2																
3																
4																
5																

Associated with: GW208-202
GW208-602

SAMPLER(S): D. Schmeelk

COURIER AND SHIPPING NUMBER: FedEx 7702 1539 7748

RELINQUISHED BY: DATE TIME


RECEIVED BY: DATE TIME


Printed Name and Signature: D. Schmeelk [Signature] 4-10-2020 1400


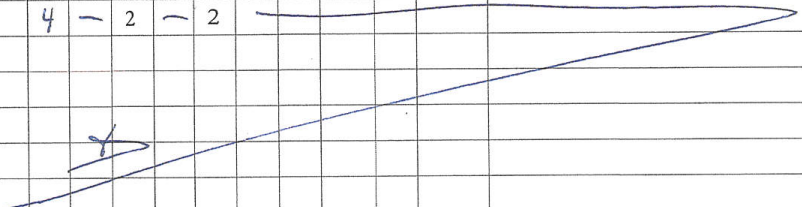
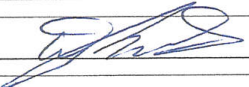
Printed Name and Signature:


Printed Name and Signature:

Printed Name and Signature:

		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-7625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-49			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2							
				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)														COMMENTS			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(B260C) BTEX	(B260C) BTEX	EDB	(B011) EDB	Total As, Pb, Cd, K, Na, Mg (B020A/B010C)	Dissolved Fe, Mn (B010C)	Chloride, bromide, sulfate (B010C)			Nitrate-Nitrite (B010C)	Alkalinity (Total Alkalinity and Bicarbonates) (B010C)
1	TB202- 49	4-10-2020	1200	2	2	2											
2																	
3																	
4																	
5																	
Associated with: GW 207-202 GW 209-202																	
SAMPLER(S): D. Schmeelk										COURIER AND SHIPPING NUMBER: FedEx 7702 1339 7119							
RELINQUISHED BY:										RECEIVED BY:							
DATE										DATE							
TIME										TIME							
Printed Name and Signature: D. Schmeelk										Printed Name and Signature:							
4-10-2020 1400																	
Printed Name and Signature:										Printed Name and Signature:							
Printed Name and Signature:										Printed Name and Signature:							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-TB202-50				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCS (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As,Pb,Ca,K,Mg (8020A/8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (3010)	Nitrate-Nitrite (353.2)	Alkalinity (Total, carbonate, and bicarbonate) (SM2320B)			
1	TB202-50	4-10-2020	1200	4	-	2	-	2								
2																
3																
4																
5																
Associated with: GWS3-449-202 GWS8-451-202																
SAMPLER(S): <u>D. Schmeelk</u>																
RELINQUISHED BY: _____ DATE _____ TIME _____																
COURIER AND SHIPPING NUMBER: FedEx 7702 1539 7303																
RECEIVED BY: _____ DATE _____ TIME _____																
Printed Name and Signature: <u>D. Schmeelk</u> 4-10-2020 1400																
Printed Name and Signature: _____																
Printed Name and Signature: _____																
Printed Name and Signature: _____																

		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-51	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)														COMMENTS	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8280C)	BTEX (8280C)	BTEXN (8280C)	EDB (8011)	Total As, Pb, Cd, Cu, Ni, Mn (8020A/8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	(SM/2320B) Alkalinity (Total, Carbonate, and Bicarbonate)			
1	TB202-51	4-10-2020	1200	4	2	2	2								
2															
3															
4															
5															
Associated with: GW028-202 GW028-602 GW079-202															
SAMPLER(S): DSchweelk								COURIER AND SHIPPING NUMBER: FedEx 7702 1539 7200 8332							
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: D. Schweelk 				4-10-2020	1400	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									



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400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
62599DM01

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

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

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

COC NUMBER
COC-TB202- 52

YEAR: 2020

QUARTER: 2

PROJECT SITE AND PHASE: ST105/SS111

LAB PO NUMBER: 14800

ANALYSIS REQUIRED (Specify number of bottles)

COMMENTS


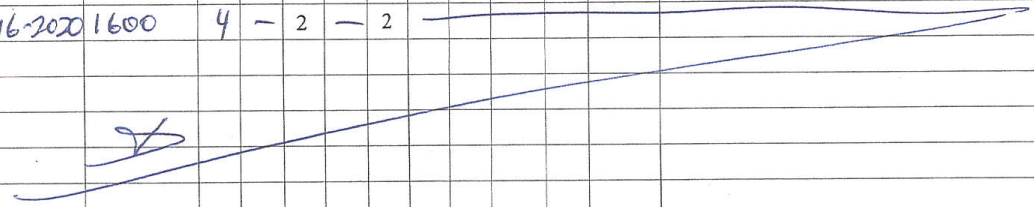
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8280C)	BTEX (8280C)	BTEXN (8280C)	ED9 (8011)	Total As, Pb, Cd, Cr, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (8010C)	Nitrate-Nitrite (300.0)	(353.2)	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)
1	TB202- 52	4-16-2020	1600	4	-	2	-	2						
2														
3														
4														
5														

Associated with: ~~GW149-202~~ X
SWB202-01
GW149-484-202

SAMPLER(S): D.Schweelk


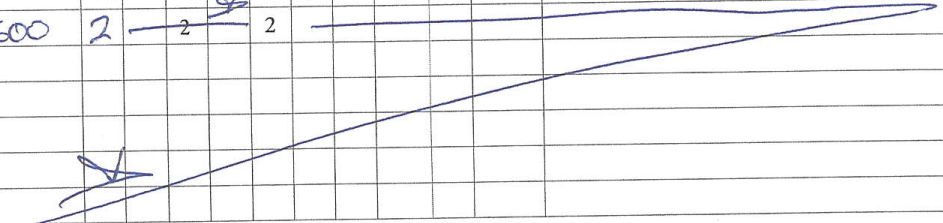
COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5349


RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: D.Schweelk	4-16-2020	1900	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		

		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-53	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2			
ANALYSIS REQUIRED (Specify number of bottles)														COMMENTS	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total As, Pb, Cd, K, Na, Mg (8011)	Disolved Fe, Mn (8000A&B10C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM/2320B)			
1	TB202-53	4-16-2020	1600	4	-	2	-	2							
2															
3															
4															
5															
Associated with: GW009-202 GW009-602															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5577											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schmeelk				4-16-2020		1900		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							


EA [®] 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-54		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020		
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2		
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						
ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS		
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Ca, K, Na, Mg (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	
1	TB202-54	4-16-2020	1600	4	-	2	-	2						
2														
3														
4														
5														
Associated with: GW005-202														
SAMPLER(S): D. Schmeelk								COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5717						
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME			
Printed Name and Signature: D. Schmeelk				4-16-2020	1900	Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								

EA [®] 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-55		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA		YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2						
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTENX (8260C)	EDB (8011)	(6020A/6010C) Total As, Pb, Cd, Cr, Ni, Mn	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS
1	TB202-55	4-16-2020	1600	2				2						
2														
3														
4														
5														
Associated with: GW070-202 GW070-602														
SAMPLER(S): D. Schweelk								COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5636						
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME			
Printed Name and Signature: D. Schweelk				4-16-2020	1900	Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1925		CHAIN-OF-CUSTODY RECORD										COC NUMBER		
												COC-TB202-56		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2		
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) BTEXN	(8260C) BTEX	(8260C) VOCs	(8260C) EDB	(9020A/B010C) Total As, Pb, Cd, Ni, Mn	(6010C) Disolved Fe, Mn	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS
1	TB202-56	4-16-2020	1600	2	2	2	2	2	2					
2														
3														
4														
5														
Associated with: GW072-202 GW104-202														
SAMPLER(S): D. Schmeelk								COURIER AND SHIPPING NUMBER: FedEx 7702 4261 6036						
RELINQUISHED BY:								RECEIVED BY:						
DATE								DATE						
TIME								TIME						
Printed Name and Signature: D. Schmeelk								Printed Name and Signature:						
4-16-2020 1900								Printed Name and Signature:						
Printed Name and Signature:								Printed Name and Signature:						
Printed Name and Signature:								Printed Name and Signature:						


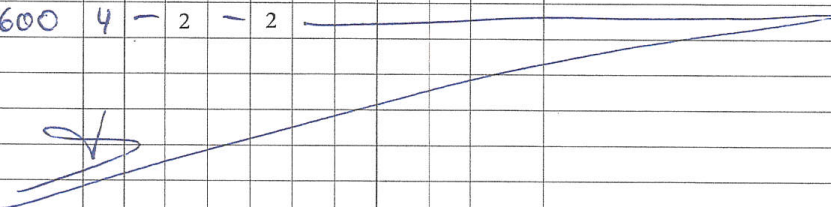
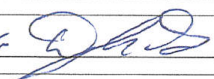
 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-57	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2			
LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8011)	(8012)	(8013)	(8014)	(8015)	(8016)	(8017)	(8018)	COMMENTS
1	TB202-57	4-16-2020	1600	2	2								
2													
3													
4													
5													
Associated with: GW001-202 GW071-202													
SAMPLER(S): D. Schuelek				COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5603									
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME		
Printed Name and Signature: D. Schuelek				4-16-2020	1900	Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							


CHAIN-OF-CUSTODY RECORD										COC NUMBER					
										COC-TB202-58					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: ilamond@eaast.com EA Amanda Smith: asmith@eaast.com EA		YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaast.com EA		QUARTER: 2					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(2280C) BTEX	(2280C) BTEXN	(2280C) BTEXN	(2280C) BTEXN	(2280C) BTEXN	(2280C) BTEXN	COMMENTS				
1	TB202- 58	4-16-2020	1600	9	2	2									
2															
3															
4															
5															
Associated with: GW008-202 GW008-602															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7702 4261 5934											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
D. Schmeelk				4-16-2020		1900									
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	


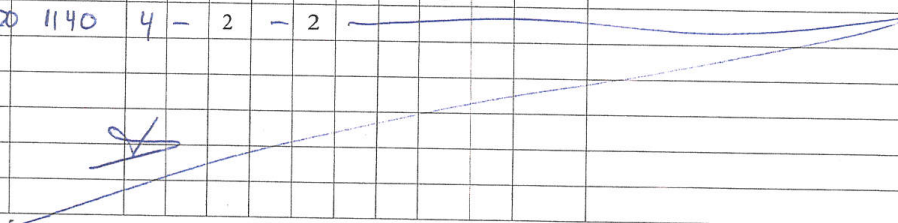
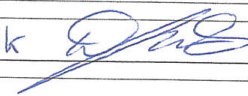
 <div>225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625</div>		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-59				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	(8011)	Total As, Pb, Cd, K, Na, Mg (8020/46010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB202-59	4-16-2020	1600	4	-	2	-	2								
2																
3																
4																
5																
Associated with: GW 152-484-202 GW 153-484-202																
SAMPLER(S): D. Schmeelk										COURIER AND SHIPPING NUMBER: FedEx 7702 4261 6529						
RELINQUISHED BY:										RECEIVED BY:						
DATE										DATE						
TIME										TIME						
Printed Name and Signature:										Printed Name and Signature:						
D. Schmeelk <i>[Signature]</i>																
4-16-2020 1900																
Printed Name and Signature:										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature:						


Kirtland AFB BFF
Quarterly Report - April-June 2020
SWMUs ST-106/SS-111


 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER			
												COC-TB202-61			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	EDS (8011)	(8260C) Total As Pb Cd Cr Cu K Na Mg	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)		
1	TB202- 61	4-16-2020	1600	4	-	2	-	2							
2															
3															
4															
5															
Associated with: GUS9-447-202															
SAMPLER(S): D. Schmeelk										COURIER AND SHIPPING NUMBER: FedEx 7702 4261 6356					
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature:						Printed Name and Signature:									
D. Schmeelk				4-16-2020	1900										
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									


 <div>225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625</div>		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-62													
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020													
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2															
						LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																			
ANALYSIS REQUIRED (Specify number of bottles)																									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(BTEXN)	(BTEXN)	EDB	(B011)	Total As, Pb, Cu, Cd, Ni, Mg	Dissolved Fe, Mn	(6010C)	Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite	(353.2)	(Total, Carbonate, and Bicarbonate)	(SM2320B)	COMMENTS					
1	TB202-62	4-16-2020	1600	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
2																									
3																									
4																									
5																									
Associated with: GV87-451-202																									
SAMPLER(S): D. Schmeelk														COURIER AND SHIPPING NUMBER: FedEx 7702 4261 6356											
RELINQUISHED BY:														RECEIVED BY:											
Printed Name and Signature:														Printed Name and Signature:											
D. Schmeelk 																									
Printed Name and Signature:														Printed Name and Signature:											
Printed Name and Signature:														Printed Name and Signature:											

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1635		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-63			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(2260C) VOCs	(2260C) BTEX	(2260C) BTENX	(2260C) EDB	(8011) Total As, Pb, Ca, K, Na, Mg	(6010C) Dissolved Fe, Mn	(6020A/6010C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(353.2) Total Carbonate and Bicarbonate	(SM232B) Alkalinity	COMMENTS
1	TB202-63	4-17-2020	1140	2	2			2							
2															
3															
4															
5															
Associated with: GW002-202 GW002-602 GW047-202															
SAMPLER(S): D.Schmeelk								COURIER AND SHIPPING NUMBER: FedEx 7702 6243 0562							
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: D.Schmeelk				4-17-2020	1600	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 64			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cu, Ni, Mg (6010)	Disolved Fe, Mn (6020, 6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (353.2)	(SM2320B) Alkalinity (Total, Carbonate and Bicarbonate)	COMMENTS	
1	TB202- 64	4-17-2020	1140	4	-	2	-	2							
2															
3															
4															
5															
Associated with: GW011-202 GW016-202															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7702 6243 0573											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:								DATE	TIME
Printed Name and Signature: D. Schmeelk 				4-17-2020	1600	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									

 <div>225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625</div>		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-65		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020		
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2		
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) EDB	(8260C) BTEXN	(8011) Total As, Pb, Cd, K, Na, Mg	(8010C) Dissolved Fe, Mn	Chloride, bromide, sulfate (300.0)	(353.2) Nitrate-Nitrite	(Total Carbonate and Bicarbonate) (354.2)	COMMENTS
1	TB202-65	4-20-2020	1330	2	2	2	2	2	2	2	2	2	2	
2														
3														
4														
5														
Associated with: GW027-202 GW024-202														
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4265 7882										
REINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME			
Printed Name and Signature: Joshua Messenger				4-20-2020	1530	Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								


 <div>225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625</div>		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-66								
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2								
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
ANALYSIS REQUIRED (Specify number of bottles)																				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(B280C)	BTEXN	(B280C)	EDB	(B011)	Total As, Pb, Ca, K, Na, Mg	(B011)	Disolved Fe, Mn (B020A/B010C)	Chloride, bromide, sulfate (B010C)	Nitrate-Nitrite (B010)	(B010C)	(B010C)	Alkalinity (Total Carbonate and Bicarbonate) (B010C)	COMMENTS
1	TB202- 66	4-20-2020	1330	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	
2																				
3																				
4																				
5																				
Associated with: GW044- 202 GW075- 202																				
SAMPLER(S): J. Messenger										COURIER AND SHIPPING NUMBER: FedEx 7702 4265 7974										
RELINQUISHED BY:										RECEIVED BY:										
DATE										DATE										
TIME										TIME										
Printed Name and Signature:										Printed Name and Signature:										
Joshua Messenger Jhu Mng																				
4-20-2020 1530																				
Printed Name and Signature:										Printed Name and Signature:										
Printed Name and Signature:										Printed Name and Signature:										


 <div>225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 594-7000 Fax No. (410) 771-1525</div>		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 67			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2			
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8011)	Disolved Fe, Mn (6020A, 6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (300.0)	(353.2)	(SM2320B) Alkalinity (Total Carbonate and Bicarbonate)	COMMENTS
1	TB202- 67	4-20-2020	1330	4	-	2	-	2							
2															
3															
4															
5															
Associated with: GW060-202 GW068-202															
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4265 7518											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: Joshua Messenger				4-20-2020	1530	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									


EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-68					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 2					
ANALYSIS REQUIRED (Specify number of bottles)																			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCS (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	EDB (8260C)	Total As, Pb, Cd, Cr, Ni, Mn (6020A6010C)	DISOLVED Fg, Mn (6020A6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS				
1	TB202-68	4-21-2020	1520	4	2	2	2	2											
2																			
3																			
4																			
5																			
Associated with: GW017-202 GW094-202																			
SAMPLER(S): D. Schmeelk										COURIER AND SHIPPING NUMBER: FedEx 7702 4267 4360									
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:		DATE		TIME	
Printed Name and Signature: D. Schmeelk										DATE: 4-21-2020		TIME: 1700		Printed Name and Signature:					
Printed Name and Signature:														Printed Name and Signature:					
Printed Name and Signature:														Printed Name and Signature:					


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202- 69									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A, 6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (253.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM23203)		
1	TB202- 69	4-21-2020	1520	4	-	2	-	2							
2															
3															
4															
5															
Associated with: GW062-202 GW067-202 GW078-202															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7702 4267 5105											
RELINQUISHED BY:				RECEIVED BY:											
Printed Name and Signature: D. Schmeelk				Printed Name and Signature:											
DATE: 4-21-2020 TIME: 1700				DATE: TIME:											
Printed Name and Signature:				Printed Name and Signature:											
Printed Name and Signature:				Printed Name and Signature:											
Printed Name and Signature:				Printed Name and Signature:											


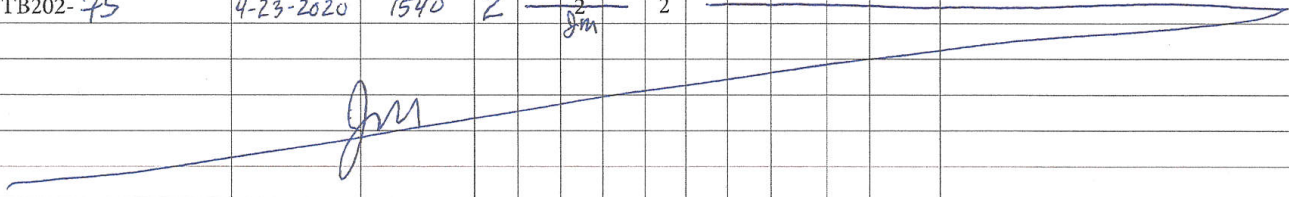
EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-70	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 2	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	(8260C)	BTEXN (8260C)	Total As,Pb,Ca,K,Na,Mg (8204/8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (350.2)		(SM2320B) Chloride, Sulfate and Bicarbonate
1	TB202-70	4-22-2020	1530	4	2	2	2								
2															
3															
4															
5															
Associated with: GW038-202															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7702 4267 5149											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schmeelk				4-22-2020		1730		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

CHAIN-OF-CUSTODY RECORD										COC NUMBER						
										COC-TB202- 71						
 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		PROJECT NAME: Kirtland AFB Bulk Fuels Facility				PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (6240C)	BTEX (6240C)	BTEXN (6240C)	EDB (6011)	Disinfectant (6010C)	Disinfectant (6010C)	Disinfectant (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (SM23209) (Total, Carbonate, and Bicarbonate)		
1	TB202- 71	4-22-2020	1530	4	-	2	-	2								
2																
3																
4																
5																
Associated with: GW065-202 GW066-202 ER202-01																
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7702 4267 4863												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: D. Schmeelk				4-22-2020		1730		Printed Name and Signature:				DATE		TIME		
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME		
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME		
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME		

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2>CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER COC-TB202-72										
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lemon: tiamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA										
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 2										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDR (8011)	Total As Pb, Cd, Cu, Ni, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (350.2)	Alkalinity (SM2320B)	(Total, Carbonate and Bicarbonate)		
1	TB202-72	4-22-2020	1530	2					2							
2																
3																
4																
5																
Associated with: GW046-202 GW039-202																
SAMPLER(S): D. Schmeck				COURIER AND SHIPPING NUMBER: FedEx 7702 4268 9970												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: Dylan Schmeck				4-22-2020		1730		Printed Name and Signature:				DATE		TIME		
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME		
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME		

CHAIN-OF-CUSTODY RECORD										COC NUMBER							
										COC-TB202- 73							
 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA		YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 2									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Dissolved Fe, Mn (6020A, 6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS				
1	TB202- 73	4-23-2020	1540	4	-	2	-	2									
2																	
3																	
4																	
5																	
Associated with: GWO12R-202																	
SAMPLER(S): J. Messenger								COURIER AND SHIPPING NUMBER: FedEx 7702 4270 3646									
RELINQUISHED BY:								DATE		TIME		RECEIVED BY:		DATE		TIME	
Printed Name and Signature: Joshua Messenger								DATE: 4-23-2020		TIME: 1730		Printed Name and Signature:					
Printed Name and Signature:												Printed Name and Signature:					
Printed Name and Signature:												Printed Name and Signature:					


CHAIN-OF-CUSTODY RECORD										COC NUMBER			
										COC-TB202-74			
 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA		YEAR: 2020		QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (6230C)	BTEX (6230C)	EDB (6011)	Total As,Pb,Cd,K,Na,Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (SM2320B) (Total, Carbonate, and Bicarbonate)	COMMENTS
1	TB202-74	4-23-2020	1540	4	-	2	-	2					
2													
3													
4													
5													
Associated with: GW 069-202 GW 080-202 ER 202-02													
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4269 0414									
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME		
Printed Name and Signature: Joshua Messenger				4-23-2020	1730	Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							


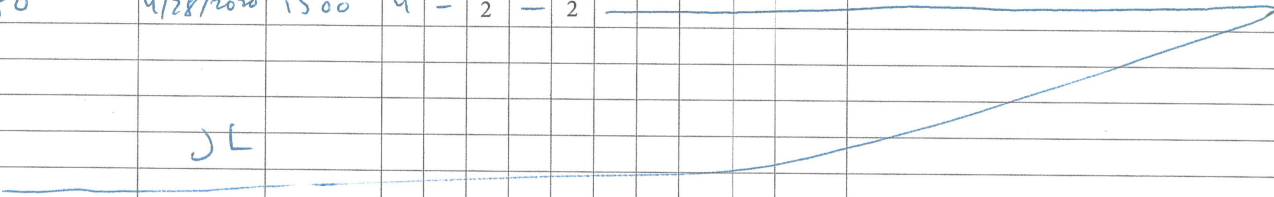
 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1525		<h2 style="margin: 0;">CHAIN-OF-CUSTODY RECORD</h2>				COC NUMBER <div style="background-color: yellow; padding: 2px;">COC-TB202- 75</div>	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7258			
ANALYSIS REQUIRED (Specify number of bottles)							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8280C) BTEX (8280C) VOCs (8280C) BTEXN (8280C) EDB (8011) Total As, Pb, Cd, Cr, Ni, Mn (6010C) Dissolved Fe, Mn (6020A/6010C) Chloride, bromide, sulfate (300.0) Nitrate-Nitrite (353.2) Alkalinity (Total, Carbonate and Bicarbonate) (SM2320B)	COMMENTS	
1	TB202- 75	4-23-2020	1540	2	2		
2							
3							
4							
5							
Associated with: <div style="margin-left: 100px;"> GW019-202 GW040-202 </div>							
SAMPLER(S): <i>J. Messenger</i>				COURIER AND SHIPPING NUMBER: FedEx 7702 4269 0425			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
Printed Name and Signature: <i>Joshua Messenger</i>		4-23-2020	1730	Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			


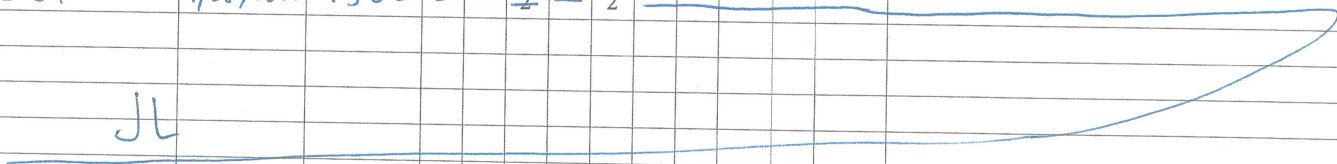
EA [®]		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 76	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amenda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (9260C)	BTEX (8260C)	EDB (8260C)	(9011)	Total As, Pb, Cd, K, Na, Mg (8020/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB202- 76	4-24-2020	1430	2	2										
2															
3															
4															
5															
Associated with: GW007-202 GW045-202 GW3411-202															
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4271 7403 7702 4270 3922											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: Joshua Messenger				4-24-2020	1630	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									


EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-77	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2					
LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7258															
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	COMMENTS	
1	TB202-77	4-24-2020	1430	4	2	2									
2															
3															
4															
5															
Associated with: GW006-202 GW014-202															
SAMPLER(S): J. Messenger															
COURIER AND SHIPPING NUMBER: FedEx 7702 4271 7138															
RELINQUISHED BY: DATE TIME RECEIVED BY: DATE TIME															
Printed Name and Signature: Joshua Messenger John Messenger 4-24-2020 1630															
Printed Name and Signature:															
Printed Name and Signature:															
Printed Name and Signature:															


EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 78	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2000C)	BTEX (2000C)	BTEXN (2000C)	ED8 (2011)	Total As, Pb, Cd, Ni, Mn (6000A, 6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS	
1	TB202- 78	4-24-2020	1430	4	-	2	-	2							
2															
3															
4															
5															
Associated with: GW 010 - 202 GW 010 - 602															
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7702 4271 7675											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Joshua Messenger				4-24-2020		1630		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							


 225 Schilling Circle Suite 400 Hunt Valley, MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-TB202-79					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2					
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
					VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDS (8011)	Total As, Pb, Ca, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (SM2320B)				
1	TB202- D 79	4-27-2020	1445	4	-	2	-	2									
2																	
3																	
4																	
5																	
Associated with: GW077-202 GW061-202																	
SAMPLER(S): D. Schmeelk																	
RELINQUISHED BY:				DATE				TIME				COURIER AND SHIPPING NUMBER: FedEx 7702 4270 3922					
Printed Name and Signature: D. Schmeelk				DATE: 4-27-2020				TIME: 1630				RECEIVED BY:					
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:					
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:					
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:					


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-TB202-80			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	(8011) (8260A/8010C) Total As, Pb, Cd, K, Na, Mg	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	COMMENTS		
1	TB202-80	4/28/2020	1500	4	-	2	-	2							
2															
3															
4															
5															
Associated with: GW020-202 GW076-202															
SAMPLER(S): J Livingston								COURIER AND SHIPPING NUMBER: FedEx 7702 4270 3830							
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J Livingston				4/28/2020		1700		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 81			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (2200C)	BTEX (2200C)	BTEN (2200C)	EDB (2200C)	Total As, Pb, Cu, K, Na, Mg (2011)	Dissolved Fe, Mn (2020A/2010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)		(SM2320B)
1	TB202- 81	4/28/2020	1500	2	2	2	2	2	2	2	2	2	2	2	
2															
3															
4															
5															
Associated with: GW082-202 GW083-202 GW084-202															
SAMPLER(S): J Livingston															
RELINQUISHED BY:				DATE				TIME				COURIER AND SHIPPING NUMBER: FedEx 7702 4269 0837			
Printed Name and Signature: J Livingston				DATE: 4/28/2020				TIME: 1700				RECEIVED BY:			
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:			
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:			
Printed Name and Signature:				DATE:				TIME:				Printed Name and Signature:			


 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB202- 82									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST108/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7258											
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8200C)	BTEX (8200C)	EDB (8011)	(8200C) Disolved Fe, Mn (82046010C) Total As,Pb,Ca,K,Na,Mg	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Arsenine (502300) (Total Carbonate and Bicarbonate)	COMMENTS			
1	TB202- 82	04-29-2020	1500	4	-	2	-	2							
2															
3															
4															
5															
Associated with: GW048-202 GW081-202															
SAMPLER(S): G. Bejaye				COURIER AND SHIPPING NUMBER: FedEx 7702 4270 4311											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Galveston Bejaye				04-29-2020		1610		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	


 226 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 594-7000 Fax No. (410) 771-1825		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-TB202- 83			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8200C)	BTEX (8280C)	BTEXN (8280C)	EDB (8011)	Total As,Pb,Ca,K,Na,Mg (8200A6010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	(SM2320B) Alkalinity (Total, Carbonate and Bicarbonate)	COMMENTS	
1	TB202- 83	04-29-2020	1500	2	2	2	2	2							
2															
3															
4															
5															
Associated with: GW095-202															
SAMPLER(S): G-Begaye										COURIER AND SHIPPING NUMBER: FedEx 7702 4271 7539					
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE	TIME		
Galveston Begaye				04-29-2020		1610									
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE	TIME		
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE	TIME		

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-TB202- 84			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amarda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 2	
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (9011)	(9260C) BTEXN	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	(SM2320B) Alkalinity (Total Carbonate and Bicarbonate)	COMMENTS	
1	TB202- 84	04-30-2020	1330	2 - 2			2								
2															
3															
4															
5															
Associated with: GW073-202 GW074-202															
SAMPLER(S): <i>G Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 7703 6032 7070					
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Galveston Begaye</i>				DATE: 04-30-2020		TIME: 1700		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1825		<h2 style="text-align: center;">CHAIN-OF-CUSTODY RECORD</h2>										COC NUMBER COC-TB202- 85				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 2				
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8210C)	BTEX (8240C)	BTXN (8250C)	EDB (8011)	Total As Pb, Cd, K, Na, Mg (8020A/8070C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)		(SM2320B)	
1	TB202- 85	04-30-2020	1330	4	-	2	-	2								
2																
3																
4																
5																
Associated with: GW003-202 GW 003-602																
SAMPLER(S): G-Begaye										COURIER AND SHIPPING NUMBER: FedEx 7703 6032 7081						
RELINQUISHED BY:										RECEIVED BY:						
Printed Name and Signature: Galveston Begaye										Printed Name and Signature:						
DATE: 04-30-2020 TIME: 1700										DATE: TIME:						
Printed Name and Signature:										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature:						

EA 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202- 86			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDS (8011)	Total As, Pb, Cd, K, Na, Mg (8260C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (82320B)			
1	TB202- 86	05-01-2020	1445	4	-	2	-	2							
2															
3															
4		05-01-2020													
5															
Associated with: GW013 -202 GW097 -202 GW098 -202															
SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 7703 6563 8571											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
Galveston Begaye [Signature]				05-01-2020		1700									
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB202-87						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA						
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8280C)	BTEX (8280C)	EDB (8011)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS
1	TB202-87	5-4-2020	1414	4	2	2						
2												
3												
4												
5												
Associated with: GW101-202 GW102-202												
SAMPLER(S): D. Schneek				COURIER AND SHIPPING NUMBER: FedEx 7703 8194 4159								
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME					
Printed Name and Signature: D. Schneek		5-4-2020	1700	Printed Name and Signature:								
Printed Name and Signature:				Printed Name and Signature:								
Printed Name and Signature:				Printed Name and Signature:								
Printed Name and Signature:				Printed Name and Signature:								

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER															
												COC-TB202-88															
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020															
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 2															
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																			
ANALYSIS REQUIRED (Specify number of bottles)																											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	BTEXN	(2280C)	EDB	(6011)	Total As, Pb, Cd, Cu, Ni, Mn	(6020A/6010C)	Dissolved Fe, Mn	(6010C)	Chloride, bromide, sulfate	(3002.0)	Nitrate-Nitrite	(353.2)	(SM2320B) Alkalinity (Total Carbonate and Bicarbonate)	COMMENTS							
1	TB202-88	5-5-2020	1300	4	-	2	2																				
2																											
3																											
4																											
5																											
Associated with: GW004-202 GW099-202 GW100-202																											
SAMPLER(S): J. Messenger										COURIER AND SHIPPING NUMBER: FedEx 7703 9351 1105																	
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:										DATE		TIME	
Printed Name and Signature: Joshua Messenger										5-5-2020		1600															
Printed Name and Signature:																											
Printed Name and Signature:																											
Printed Name and Signature:																											

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB202-89																	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020																			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 2																			
				ANALYSIS REQUIRED (Specify number of bottles)																											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(8260C)	BTEXN	(8260C)	EDB	(8011)	Total As, Pb, Cd, K, Na, Mg	(6020A/6010C)	Disolved Fe, Mn	(6010C)	Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite	(353.2)	(Total Carbonate and Bicarbonate)	(SM2320B)	Alkalinity	COMMENTS								
1	TB202-89	5-6-2020	1530	4	-	2	2																								
2																															
3																															
4																															
5																															
Associated with:																															
SWB 202-02																															
GW059-202																															
ER202-03																															
SAMPLER(S): J. Messenger												COURIER AND SHIPPING NUMBER: FedEx 7704 0158 1592																			
RELINQUISHED BY:												DATE				TIME				RECEIVED BY:				DATE				TIME			
Printed Name and Signature: Joshua Messenger												5-6-2020				1630															
Printed Name and Signature:																															
Printed Name and Signature:																															
Printed Name and Signature:																															

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				COC-TB202-90				
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020 QUARTER: 2				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (9260C)	BTEX (9260C)	BTEXN (9260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (394.2)			
1	TB202-90	5-8-2020	1500	4			2	2								
2																
3																
4																
5																
Associated with: GW096-202 GW096-602 GW018-202																
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: 2395 7755 FedEx 7704-2374-1670-X												
RELINQUISHED BY:		DATE		TIME		RECEIVED BY:		DATE		TIME						
Printed Name and Signature: D. Schmeelk		5-8-2020		1830												
Printed Name and Signature:																
Printed Name and Signature:																
Printed Name and Signature:																

EA 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER <u>✓</u> COC-TB202- <u>90</u> 91											
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eest.com EA Amanda Smith: asmith@eest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eest.com EA				YEAR: 2020 QUARTER: 2											
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																	
ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(BTEX)	BTEXN	EDB	Total As, Pb, Cd, Cr, Ni, Mn	Disolved Fe, Mn		Chloride, bromide, sulfate	Nitrate-Nitrite	(353.2)	(300.0)	(6010C)	(6020A, 6010C)	(SM2320B) Alkalinity (Total Carbonate and Bicarbonate)				
1	TB202- <u>90</u> 91	5-19-2020	1230	4	-	2	-	2															
2																							
3																							
4																							
5																							
Associated with: GW063-202 GW064-202																							
SAMPLER(S): D. Schuelek										COURIER AND SHIPPING NUMBER: FedEx 7705 0008 4848													
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:									
Printed Name and Signature: D. Schuelek										5-19-2020		1430		Printed Name and Signature:									
Printed Name and Signature:														Printed Name and Signature:									
Printed Name and Signature:														Printed Name and Signature:									
Printed Name and Signature:														Printed Name and Signature:									

17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record



Client Information Client Contact: Pamela Moss Company: EA Engineering, Science, and Technology Address: 895 E. Prentice Ave, Suite 206E City: Greenwood Village State, Zip: CO, 80111 Phone: 303-810-6903 (Tel) Email: pmoss@eaest.com Project Name: Inland AFB - Well Disinfection Water Sampling Site: Inland AFB New Mexico		Sampler: Joshua Messenger Phone: 508-789-0624		Lab PM: Fama, Sheri M E-Mail: sherif.fama@testamericainc.com		Carrier Tracking No(s): 7708 3601 1966		COC No: 440-152097-28023.27 Page: Page 1 of 1 Job #:																																																																																																														
		Due Date Requested:		TAT Requested (days): 15 Business Days		PO #: 20149 WO #: 62599DM01.1035.06 Project #: 44021666 SSOW#:		Analysis Requested <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 300.1B - 14D - Chlorite 300.1B - 28D - Bromate 331.0 - Perchlorate </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Field Filtered </div> </div>		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:																																																																																																												
Sample Identification <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>300.1B - 14D - Chlorite</th> <th>300.1B - 28D - Bromate</th> <th>331.0 - Perchlorate</th> <th>Field Filtered</th> <th>Total Number of containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>KAFB-106005-WR-pre</td> <td>6-29-2020 0825</td> <td>G</td> <td>Water</td> <td>-</td> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td rowspan="6" style="text-align: center; vertical-align: middle;"> </td> </tr> <tr> <td>KAFB-106005-WR-post</td> <td>6-30-2020 0850</td> <td></td> <td>Water</td> <td>-</td> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> </tr> <tr> <td>KAFB-106028-WR-pre</td> <td>6-24-2020 1015</td> <td></td> <td>Water</td> <td>-</td> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> </tr> <tr> <td>KAFB-106028-WR-post</td> <td>6-29-2020 1205</td> <td></td> <td>Water</td> <td>-</td> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> </tr> <tr> <td>KAFB-106239-WR-pre</td> <td>6-25-2020 1030</td> <td></td> <td>Water</td> <td>-</td> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> </tr> <tr> <td>KAFB-106239-WR-post</td> <td>6-29-2020 0930</td> <td></td> <td>Water</td> <td>-</td> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> </tr> <tr> <td colspan="2"></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.1B - 14D - Chlorite	300.1B - 28D - Bromate	331.0 - Perchlorate	Field Filtered	Total Number of containers	Special Instructions/Note:	KAFB-106005-WR-pre	6-29-2020 0825	G	Water	-	N	X	X	X		3		KAFB-106005-WR-post	6-30-2020 0850		Water	-	N	X	X	X		3	KAFB-106028-WR-pre	6-24-2020 1015		Water	-	N	X	X	X		3	KAFB-106028-WR-post	6-29-2020 1205		Water	-	N	X	X	X		3	KAFB-106239-WR-pre	6-25-2020 1030		Water	-	N	X	X	X		3	KAFB-106239-WR-post	6-29-2020 0930		Water	-	N	X	X	X		3				Water												Water												Water										
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Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) Level 4 data deliverable (NonDOD); EquiS EDD		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:																																																																																																																		
Releash Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____		Relinquished by: Dylan Schmalzer Date/Time: 6-30-2020 1400 Company: EA Eng		Relinquished by: _____ Date/Time: _____ Company: _____																																																																																																																		
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Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks:																																																																																																																				

Ver: 08/04/2016



United States Department of the Interior

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

MEMORANDUM FOR RECORD

August 17, 2020

Attention: Cynthia Cash, AFCEC

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

From: Kate Wilkins, Hydrologic Technician, NMWSC

Subject: Quarterly Organic Data Transmittal for Kirtland Air Force Base (KAFB) Bulk Fuels Facility (BFF) Ethylene Dibromide (EDB) Plume Sentinel Wells for the April 2020 to July 2020 Quarter.

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

Site Descriptions

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

Sampling Period

Samplers were deployed between January 6, 2020, and January 9, 2020. Environmental samples were collected between June 2, 2020, and June 5, 2020.

Sampling Protocols

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

Sample Analysis

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

Data Review

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

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

Sincerely,

**KATE
WILKINS**

Digitally signed
by KATE WILKINS
Date: 2020.08.17
15:53:36 -06'00'

Kate Wilkins
 Project Chief
 Hydrologic Technician
 USGS New Mexico Water Science Center

cc: Sheen Kottkamp, AFCEC
 Ben Moayyad, USACE
 Bernard Bockisch, EA Engineering
 Stuart Norton, USGS
 Kimberly Beisner, USGS
 Michael Johnson, USGS

References:

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

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

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

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

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

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

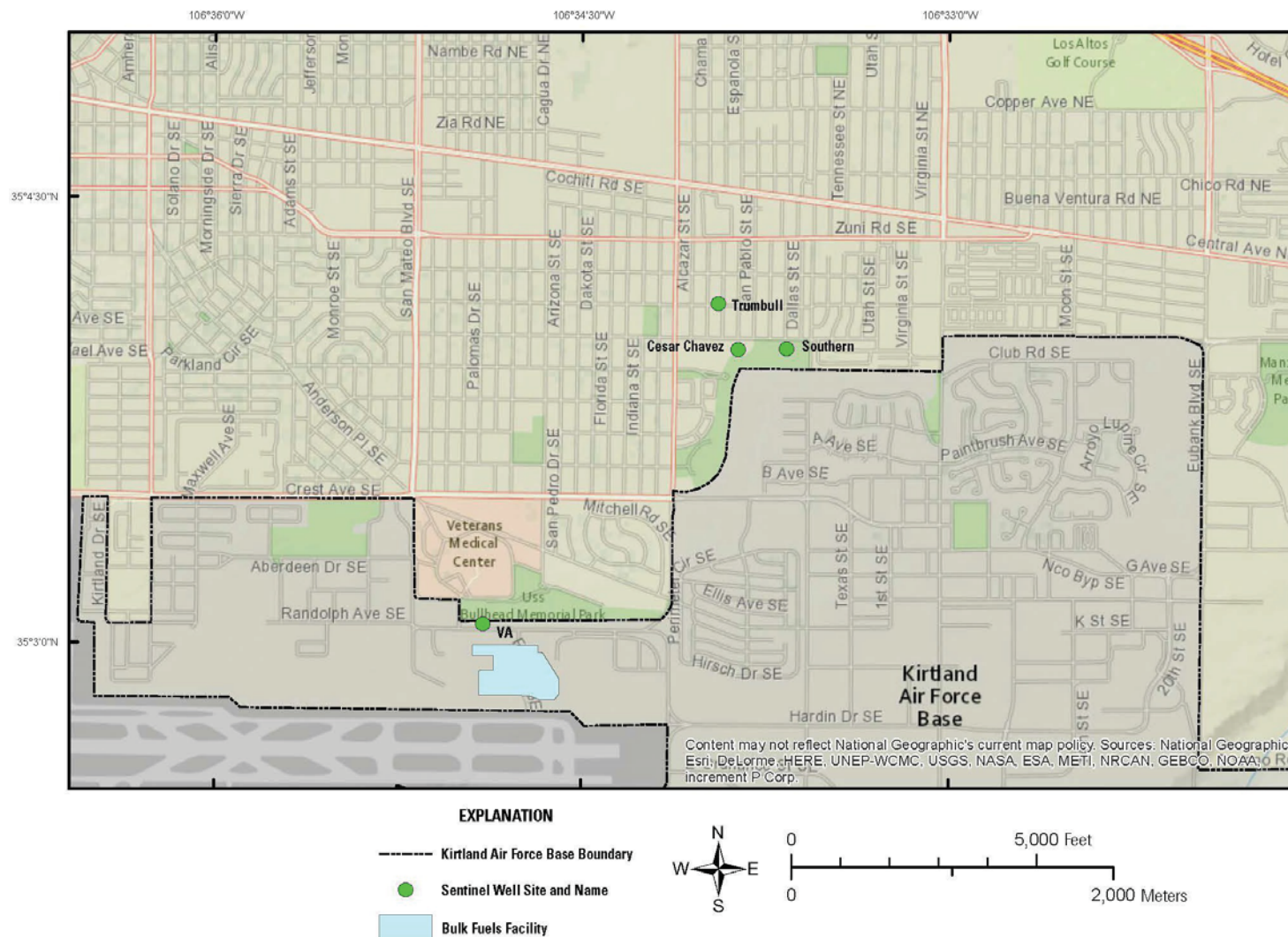


Table 1: Sentinel Well Site Information

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

Table 2
Groundwater Analytical Results for Sentinel Wells, April - July 2020

			Site Name:			Cesar Chavez 1A			Cesar Chavez 1B			Cesar Chavez 1C			Cesar Chavez 1D		
			Station Identification:			350359106335201			350359106335202			350359106335203			350359106335204		
			Sample Date:			06/03/2020 1400			06/03/2020 1300			06/03/2020 1200			06/03/2020 1000		
			Sample Type:			Environmental			Environmental			Environmental			Environmental		
			Sample Depth (ft bgs):			496			591			1002			1303		
			Site Elevation (ft above sea level):			5350.33			5350.23			5350.23			5350.23		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	Project Screening Level ^c	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method O-4127-96 (µg/L)	1,2-dibromoethane ^d	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs		Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

			Site Name:			Southern 1A			Southern 1B			Southern 1C			Southern 1D		
			Station Identification:			350359106333901			350359106333902			350359106333903			350359106333904		
			Sample Date:			06/04/2020 1300			06/04/2020 1200			06/04/2020 1100			06/04/2020 1000		
			Sample Type:			Environmental			Environmental			Environmental			Environmental		
			Sample Depth (ft bgs):			506			580			1062			1370		
			Site Elevation (ft above sea level):			5363.20			5363.10			5363.10			5363.10		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	Project Screening Level ^c	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method O-4127-96 (µg/L)	1,2-dibromoethane ^d	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs		Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

			Site Name:			Trumbull 1A			Trumbull 1B			Trumbull 1C		
			Station Identification:			350408106335601			350408106335602			350408106335603		
			Sample Date:			06/02/2020 1400			06/02/2020 1300			06/02/2020 1100		
			Sample Type:			Environmental			Environmental			Environmental		
			Sample Depth (ft bgs):			484			1000			1414		
			Site Elevation (ft above sea level):			5337.76			5337.76			5337.76		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	Project Screening Level ^c	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method O-4127-96 (µg/L)	1,2-dibromoethane ^d	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs		Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

Table 2
Groundwater Analytical Results for Sentinel Wells, April - July 2020

			Site Name:			VA Shallow			VA Middle			VA Deep		
			Station Identification:			350304106345401			350304106345402			350304106345403		
			Sample Date:			06/05/2020 1200			06/05/2020 1100			06/05/2020 1000		
			Sample Type:			Environmental			Environmental			Environmental		
			Sample Depth (ft bgs):			622			820			1000		
			Site Elevation (ft above sea level):			5340.668			5340.668			5340.668		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	Project Screening Level ^c	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method O-4127-96 (µg/L)	1,2-dibromoethane ^d	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs		Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

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

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

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

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

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

APPENDIX E-6

Explanations from Previous Reports

LIST OF ACRONYMS AND ABBREVIATIONS

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

1. EXPLANATION OF REFERENCE ELEVATION INTERVAL DESIGNATIONS

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

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

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

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

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

2016. A total of 62 wells comprise this dataset, eight of which are included in both the REI 4857 and REI 4838 datasets: KAFB-106001, KAFB-106015, KAFB-106017, KAFB-106018, KAFB-106019, KAFB-106021, KAFB-106022, and KAFB-106025. The reason for this double assignment is due to well screen construction lengths (25-30 feet) and, thus, overlapping screen intervals in REI 4838 by more than 5 feet. This means that samples collected from these eight wells are representative of REI 4857, and are also representative of at least a third of REI 4838. Of note, a majority of the REI 4857 wells were designed to be water table wells with partially submerged screens, having relatively long screen lengths ranging from 20 to 30 feet. However, due to rising groundwater elevations, only 14 GWM wells included in REI 4857 remained with partially submerged screens as of Q4 2016.

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

2. DISCUSSION OF FIELD PARAMETERS FROM PASSIVE SAMPLING

2.1 Comparison of field parameters between passive and low-flow sampling

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

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

2.2 Passive Sampler Evaluation

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

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

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

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

- EDB was detected in all groundwater samples collected using both low-flow and passive technologies. The RPD for EDB from samples collected from KAFB-106005 was 10%. The EDB

concentrations from the other four wells in the demonstration ranged from 0.85 to 5.9 micrograms per liter ($\mu\text{g/L}$), with RPDs ranging from 48 to 175%; above the acceptable 35% RPD.

- Benzene was detected in all groundwater samples (at concentrations above the project screening limit [PSL] of 5 $\mu\text{g/L}$) using both low-flow and passive technologies. The RPD for the benzene results was 0% for KAFB-106008 (both methods had a benzene concentration of 2,300 $\mu\text{g/L}$) and the RPD was relatively low for two other wells (KAFB-106005 and KAFB-106006) at 26 and 31%, respectively. The RPD for benzene from groundwater samples collected from KAFB-106014 and KAFB-106059 was 64 and 121%, respectively; above the acceptable 35% RPD.
- Toluene was detected or estimated in all groundwater samples collected using both low-flow and passive technologies. The RPD for toluene ranged from 16 to 195%, and was below the acceptable 35% RPD in two wells (KAFB-106005 and KAFB-106008).
- Ethylbenzene was detected in all groundwater samples collected using both low-flow and passive technologies. The RPD for ethylbenzene was 0% in KAFB-106006 (both methods had an ethylbenzene concentration of 3 $\mu\text{g/L}$) and the RPD was relatively low for KAFB-106005 (19%). The ethylbenzene concentrations from the other three wells in the demonstration ranged from 45 to 470 $\mu\text{g/L}$, with RPDs ranging from 39 to 164%; above the acceptable 35% RPD.
- Total xylenes were detected all groundwater samples collected using both low-flow and passive technologies, with the exception of the DMS sample from KAFB-106006, precluding the ability to calculate an RPD from that well. The RPD for total xylenes was 17% from KAFB-106005, within the 35% RPD. The RPD was above 35% in the remaining wells (KAFB-106008, KAFB-106014, and KAFB-106059).

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

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

The results from the field parameter demonstration are summarized below. In accordance with the work plan (Kirtland AFB, 2017c), the low-flow purge water data are used for reporting purposes as measured using the YSI Pro Plus. The field parameters from the Aqua TROLL[®] 600 multiparameter sonde are used

for demonstration purposes only, and an RPD was calculated for each parameter within each well (Table 3-15). An RPD of 50% was deemed acceptable for the field parameters, and is conservative given the variability and relatively low concentrations of dissolved oxygen (DO) and turbidity. In accordance with the work plan (Kirtland AFB, 2017c), field parameters were collected until stabilization of three consecutive readings within 10% of one another was achieved, or a maximum of 1 hour. The final, stabilized field parameters measurements are used for reporting and demonstration purposes.

- Turbidity had relatively high RPDs, with the exception of KAFB-106014 at 20%; the remaining four wells had an RPD for turbidity ranging from 60 to 198%.
- Temperature was consistent between the two methods, with a maximum RPD of 12% (KAFB-106008).
- DO had relatively high RPDs in three wells (KAFB-106005, KAFB-106006, and KAFB-106008). DO had relatively low RPDs in KAFB-106014 (46%) and KAFB-106059 (28%). Although DO had relatively high RPDs in three of the demonstration wells, the results were all <1 milligrams per liter (mg/L), with the exception of the low-flow result from KAFB-106006 (2.94 mg/L).
- Specific conductivity was consistent between the two methods, with a maximum RPD of 43% (KAFB-106005).
- pH was consistent between the two methods, with a maximum RPD of 7% (KAFB-106059).
- Oxidation-reduction potential had relatively high RPDs in wells KAFB-106005 and KAFB-106059 at 55 and 54%, respectively. The other wells demonstrated relatively low RPDs for oxidation reduction potential, ranging from 5 to 29%.

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

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

3. REGIONAL GROUNDWATER GRADIENT

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

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

4. DESCRIPTION OF FORMER WELL DESIGNATIONS AND ASSOCIATED SAMPLING REGIMES

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

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

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

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

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

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

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

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

5. EDB CAPTURE EVALUATION METHODOLOGIES

5.1 Capture Evaluation Methodologies from the Q4 2016 Quarterly and Annual Report

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

5.1.1 Horizontal Capture Analysis

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

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

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

The hydraulic divides for each extraction well in each REI were developed in two steps using ArcGIS Spatial Analyst. First, a raster of flow direction from each cell in the potentiometric surface raster to its steepest downslope neighbor was created using the Flow Direction tool. Second, a raster delineating all drainage basins within the potentiometric surface was created using the Basin tool. The basin raster was converted into polygons, which could then be used for display of the capture zone boundaries and to crop segments of the plume volume for further analysis. Streamlines (particle tracks) showing the direction of flow along the potentiometric surface for each REI were developed using C-Tech MVS software. Each potentiometric raster surface was imported and converted into a gradient vector grid. Points assigned at the three-dimensional location of each screened interval in the dataset were assigned as seed points from which downgradient streamlines were created.

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

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

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

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

Figure 5-5 shows the horizontal capture of the portion of the EDB plume within REI 4857 during Q4 2016. Plume capture was divided between the two active extraction wells (KAFB-106228 and KAFB-106234) (NOTE: Extraction well KAFB-106233 was not operated from June 10 to December 31 due to biofouling issues). With respect to the entire plume volume, the interim measure resulted in the horizontal capture of 66% of the plume volume and 11% of the plume mass. With respect to the objective area north

of Ridgecrest Drive SE, the interim measure resulted in the horizontal capture of 99% of the plume volume and 99.5% of the plume mass (Table 5-8). A small portion of the plume was lost from capture due to flow to an unidentified sink defined by KAFB-106235-463 located west of KAFB-106234.

Figure 5-6 shows the horizontal capture of the portion of the EDB plume within REI 4838 during Q4 2016 (NOTE: Extraction well KAFB-106233 was not operated from June 10 to December 31 due to biofouling issues). With respect to the entire plume volume, the interim measure resulted in the horizontal capture of 84% of the plume volume and 52% of the plume mass. With respect to capture in the objective area, the interim measure resulted in the horizontal capture of 95% of the plume volume and 97% of the plume mass. A portion of the plume was lost from capture due to flow to an unidentified sink defined by KAFB-106220 located southeast of extraction well KAFB-106234. The capture analysis method suggested the existence of a closed depression defined by KAFB-106089 located north of Ridgecrest Drive SE in the north-central portion of the EDB plume, which would have reduced the capture statistics. However, an analysis of the head in KAFB-106089 and the heads in the surrounding wells, including KAFB-106037 less than 35-feet from extraction well KAFB-106228, showed no data support for this interpretation (see Section 5.3.4 for more details) as the head in KAFB-106037 was 0.1-foot lower than in KAFB-106089.

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

5.1.2 Vertical Capture Analysis

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

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

Vertical plume capture analysis was performed by first defining the plume volume in the upper (above REI 4838 mid-point) and lower (below REI 4838 mid-point) units. The entire plume volume delineated

for both Q2 and Q4 2016 was sliced along the REI 4838 screened interval mid-point elevation plain. The portion of the plume above the slice represented the upper unit plume volume. The portion of the plume below the slice represented the lower unit plume volume.

The upper plume volume has two opportunities to be captured vertically. Initially, this plume volume can be captured by upward flow between REI 4838 and REI 4857. Portions of the plume not captured in this interval have the potential to move downward into the lower unit. Once in the lower unit, these portions can be captured by vertical upward flow between REI 4814 and REI 4838. The lower plume volume can only be captured by vertical upward flow between REI 4814 and REI 4838. Once the unit plume volumes have been delineated, they are segmented by the capture polygons developed from the head difference grids volume and mass capture analysis.

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

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

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

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

were vertically captured. In total, 68% of the plume volume and 67% of the plume mass in the interim measure objective area were vertically captured in Q4 2016.

5.2 Capture Evaluation Methodologies from the Appendix I-7 of the Q2 2018 Quarterly Report

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

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

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

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

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

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

Step 4 was the delineation of extraction well capture polygons for calculation of plume capture volumetrics. Analysis of the extraction well attributed plume cells showed that the capture zones produced by each extraction well were coincident (did not cross) except for the capture boundary between KAFB-106228 and KAFB-106239. There was some overlap of the KAFB-106233 and KAFB-20 cell areas with KAFB-106228 cell areas; however, the centroids did not overlap. Cell areas and centroids between KAFB-106228 and KAFB-106239 did overlap. KAFB-106228 captured the upper part of the plume at or near the water table, while KAFB-106239 captured the deeper portion of the plume. This is likely due to KAFB-106228 being screened across the water table and KAFB-106239 being screened completely below the water table. The capture boundaries were assigned along neighboring particle track lines for each zone except for between KAFB-106228 and KAFB-106239. Where these two capture zones overlapped, the capture boundary was assigned as the centerline of the overlap area. These capture zones were exported into Mining Visualization System 3D space and used to split the plume volume and develop estimates of plume volume and mass captured by each well. Appendix I-7 – Figure 9d shows a 2D rendering of the final 3D capture zone delineations and the plume area split into these capture zones.

5.3 Capture Evaluation Methodologies from the Appendix I-6 of the Q4 2018 Quarterly and Annual Report

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

5.3.1 Introduction

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

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

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

Version 2 of the flow model was developed for use this quarter, using a different method for assigning model boundary conditions to address both the error and stress concerns.

This appendix presents the updated method for assigning model boundary conditions and the recalibration of the flow model using this method. Unless noted as a change in the following sections, model design and calibration follow the same methods described in Appendix I-7 of the Q2 2018 report (Kirtland AFB, 2018b). This appendix is designed to be an update to that modeling report, not a standalone report.

5.3.2 Boundary Assignment Revision

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

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

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

5.3.3 Model Recalibration

The change in the method used to estimate the boundary conditions of the model domain necessitated a recalibration of the numerical flow model. As with Version 1 of the model representing Q4 2017 conditions under a uniform gradient (Kirtland AFB, 2018b), calibration of this version of the model was performed by changing the assigned horizontal Kh and the vertical anisotropy (VANI). The assumptions of homogeneous Kh and VANI and of zero areal recharge were maintained and the values for Kh and VANI were allowed to range between the minimum and maximum values produced by the 2015 constant rate aquifer test performed using interim measure extraction well KAFB-106228 (Table I-6-2) (Kirtland AFB, 2016).

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

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

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

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

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

In order to test this hypothesis, a grain-size based permeability analysis of the objective area aquifer was performed. In unconsolidated aquifers, permeability is primarily controlled by the d10, or 10% finer grain size. Using bore logs recording visually determined grain sizes, a three-dimensional d10 grain size model was constructed of the objective area. The aquifer was delineated into eight grain size categories: clay, silt, very fine sand, fine sand, medium sand, coarse sand, very coarse sand, and gravel. The d10 model results were analyzed between an elevation of 4,905 and 4,785 ft above mean sea level, the bottom of which represents the lithology reporting depth from the shallowest reference elevation interval (REI) 4814 monitoring well in the objective area. In this region, the model estimates that sand and gravel make up 80% of the aquifer material, very close to the 85% expected from the literature reviews performed for Appendix I-7 of the Q2 2018 report (Kirtland AFB, 2018b). Fine sand was found to be the most dominant grain size at 47%. Clay and silt were distributed as thin discontinuous lenses and very fine sand through medium sand seemed to be well mixed throughout the aquifer volume. The 6% of coarse sand and gravel, however, showed to be primarily grouped into to relatively continuous lenses.

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

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

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

6. TARGET CAPTURE ZONE DELINEATION METHOD

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

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

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

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

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

Figure 5-2 shows the modeled Target Capture Zone from the last four synoptic measuring periods for EDB concentration. The plume volume defined by the 0.05 µg/L iso-shell changes between measuring periods as a result of the rising regional water table and interim measure extraction activity. The actual volumetric change is not presented or evaluated in Figure 5-2; it is only provided for graphical visualization. The Target Capture Zone is considered to be dynamic and will continue to be re-modeled with each subsequent measurement period to evaluate performance. Appendix I, Figure I-6-1 shows these four Target Capture Zones in relation to monitoring well screen intervals for graphical analysis of the dataset available for the production of the plume iso-shell.

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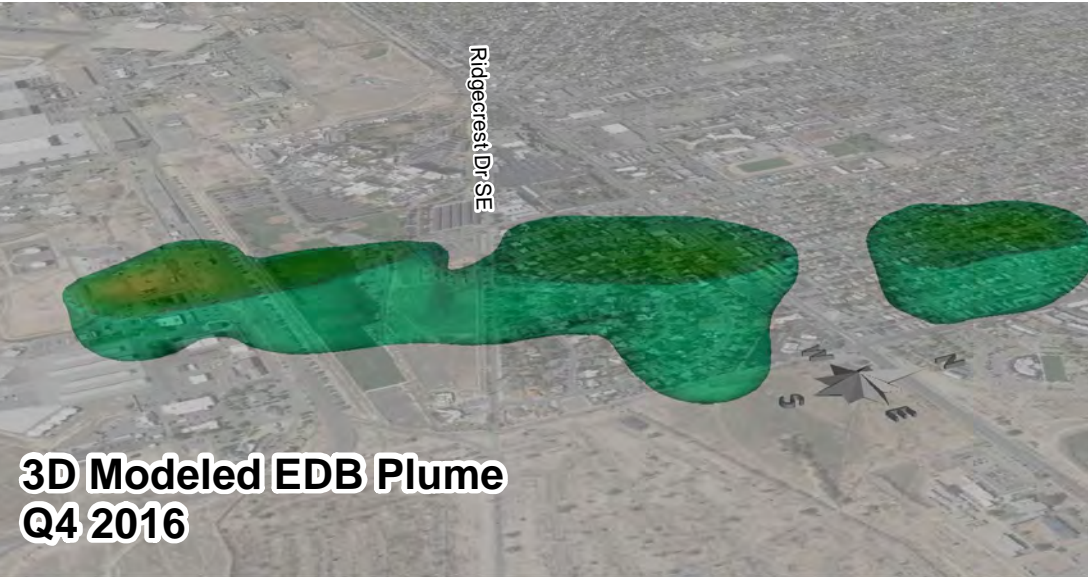
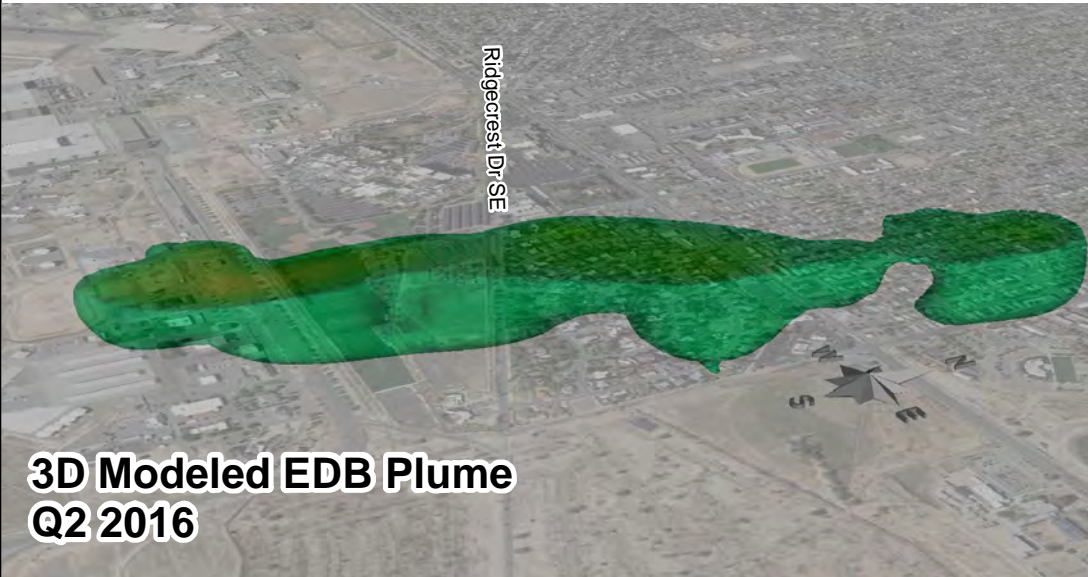
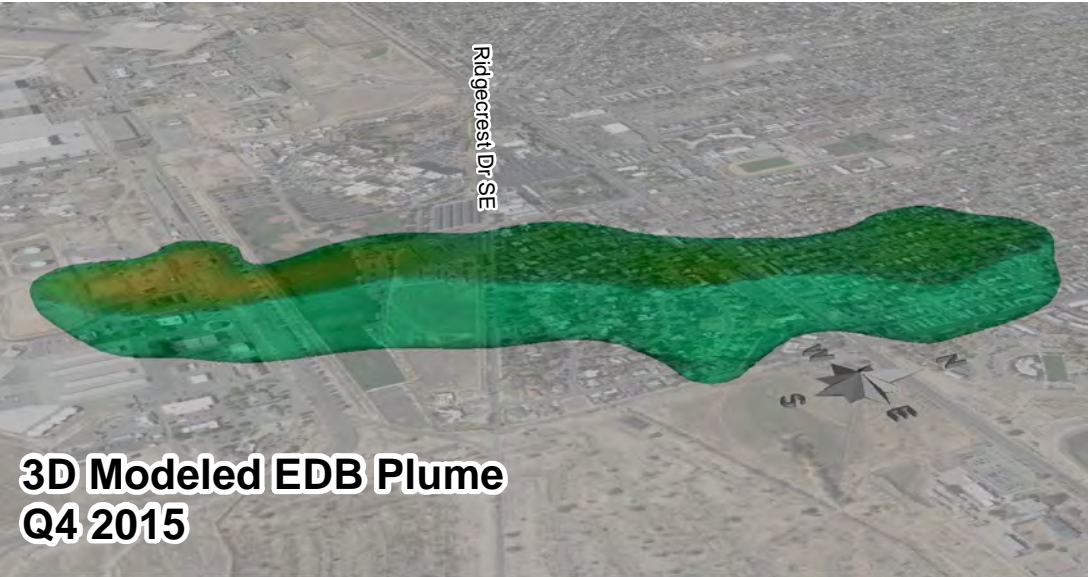
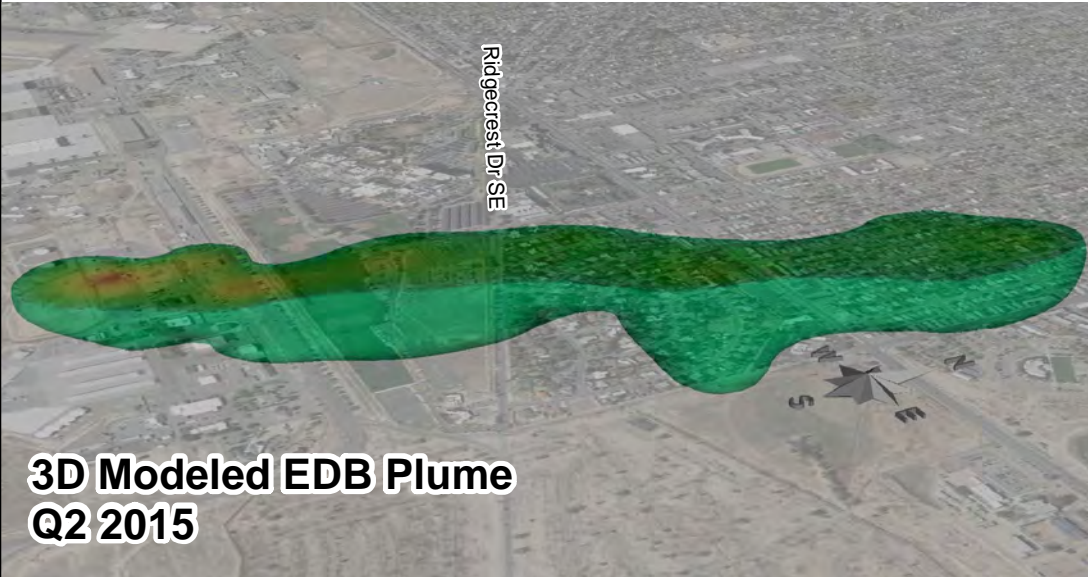
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- Q4 2018 Figure I-6-1 – Regional Water Level Q4 2017 and Q4 2018
- Q4 2018 Figure I-6-2 – Q4 2017 and Q4 2018 Numerical Model Calibration Results – Simulated vs Measured Groundwater Levels
- Q4 2018 Figure I-6-3 – Spatial Distribution of Simulated vs Measured Residuals – Q4 2017 and Q4 2018
- Q4 2018 Figure I-6-4 – Spatial Distribution of Simulated vs Measured Residuals and Lithology, Q4 2017 and Q4 2018



Legend

0.05 µg/L EDB Iso-shell

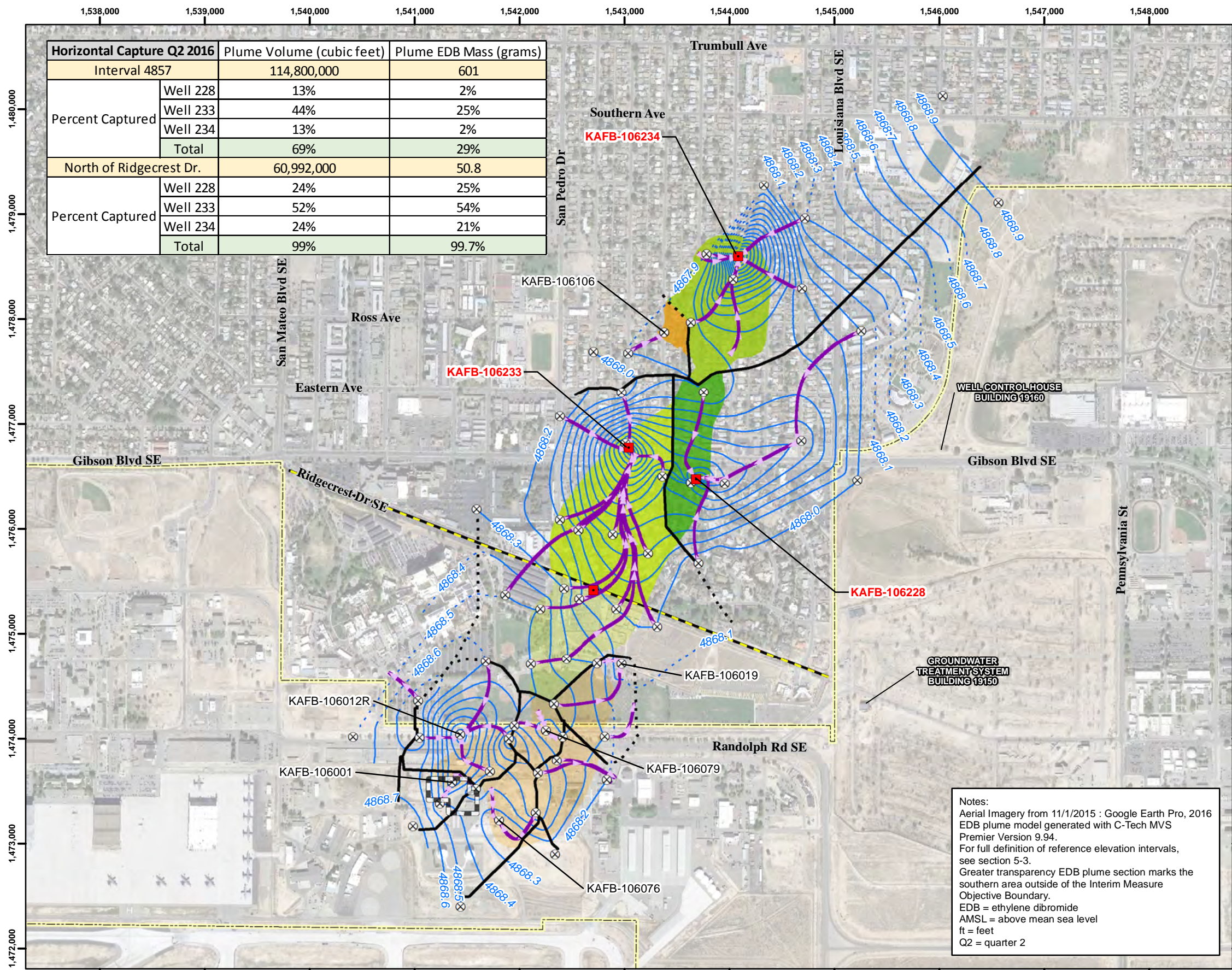


Notes:
Aerial Imagery from 11/1/2015 : Google Earth Pro, 2016
EDB plume model generated with C-Tech MVS
Premier Version 9.94.
3D models exaggerated by a factor of 10.
EDB = ethylene dibromide
µg/L = microgram(s) per liter
Q2 = quarter 2
Q4 = quarter 4

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FIGURE 5-2

COMPARISON OF
TARGET CAPTURE ZONES
2015 - 2016



Horizontal Capture Q2 2016		Plume Volume (cubic feet)	Plume EDB Mass (grams)
Interval 4857		114,800,000	601
Percent Captured	Well 228	13%	2%
	Well 233	44%	25%
	Well 234	13%	2%
	Total	69%	29%
North of Ridgecrest Dr.		60,992,000	50.8
Percent Captured	Well 228	24%	25%
	Well 233	52%	54%
	Well 234	24%	21%
	Total	99%	99.7%

Legend

■

Extraction Well

⊗

Groundwater Monitoring Well

—

Groundwater Level Contour (ft AMSL)

- - -

Inferred Groundwater Level Contour (ft AMSL)

→

Particle Flow Line (Direction of Flow)

—

Hydraulic Divide

- - -

Inferred Hydraulic Divide

- - -

Installation Boundary

- - -

Interim Measure Objective Boundary

Plume Area Horizontal Capture Analysis

■

Captured by Extraction Well KAFB-106228

■

Captured by Extraction Well KAFB-106234

■

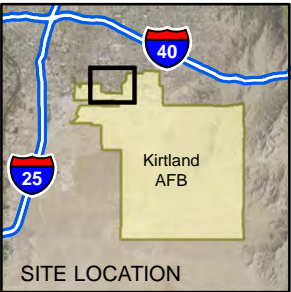
Captured by Extraction Well KAFB-106233

■

Plume Not Captured

■

Source Area



N

05001,0002,000

Feet

1 inch = 1,000 feet

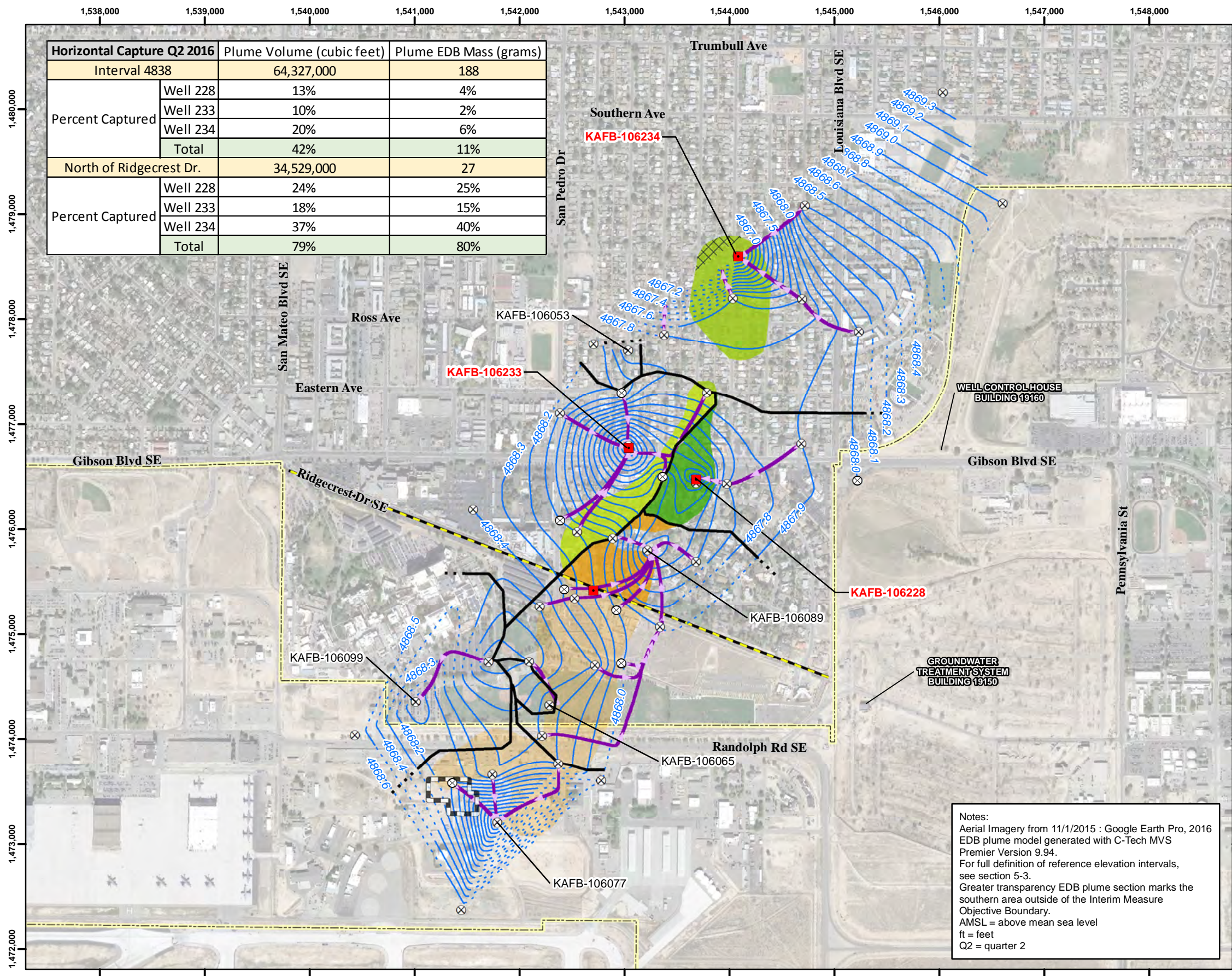
Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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FIGURE 5-3

HORIZONTAL CAPTURE IN
REFERENCE ELEVATION INTERVAL 4857
Q2 2016

Notes:
Aerial Imagery from 11/1/2015 : Google Earth Pro, 2016
EDB plume model generated with C-Tech MVS
Premier Version 9.94.
For full definition of reference elevation intervals,
see section 5-3.
Greater transparency EDB plume section marks the
southern area outside of the Interim Measure
Objective Boundary.
EDB = ethylene dibromide
AMSL = above mean sea level
ft = feet
Q2 = quarter 2

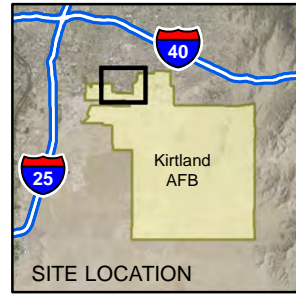


Legend

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

Plume Area Horizontal Capture Analysis

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



05001,0002,000

Feet

1 inch = 1,000 feet

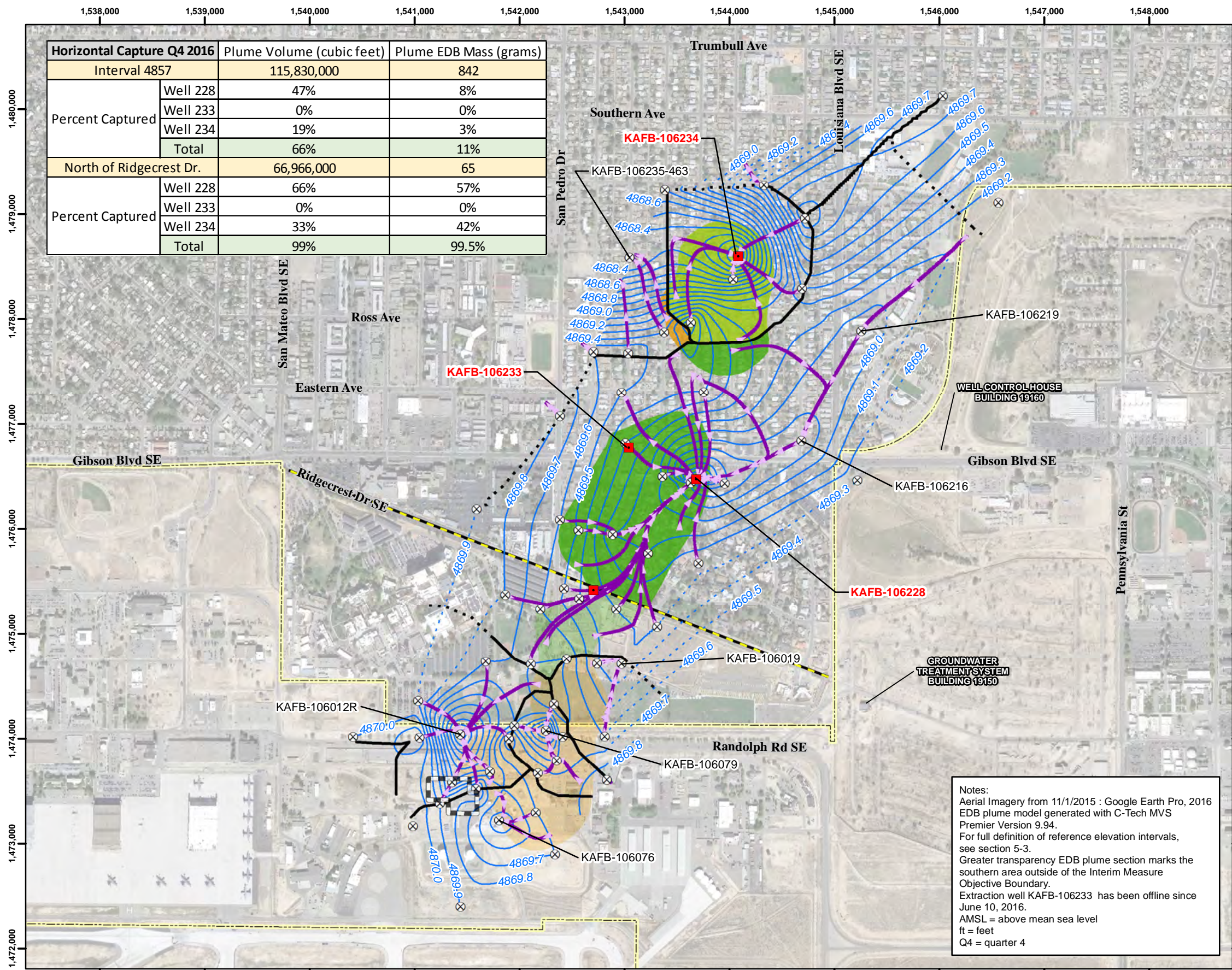
Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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FIGURE 5-4

HORIZONTAL CAPTURE IN
REFERENCE ELEVATION INTERVAL 4838
Q2 2016

Notes:
Aerial Imagery from 11/1/2015 : Google Earth Pro, 2016
EDB plume model generated with C-Tech MVS
Premier Version 9.94.
For full definition of reference elevation intervals,
see section 5-3.
Greater transparency EDB plume section marks the
southern area outside of the Interim Measure
Objective Boundary.
AMSL = above mean sea level
ft = feet
Q2 = quarter 2



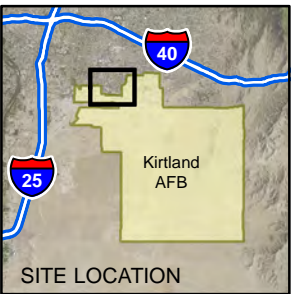
Horizontal Capture Q4 2016		Plume Volume (cubic feet)	Plume EDB Mass (grams)
Interval 4857		115,830,000	842
Percent Captured	Well 228	47%	8%
	Well 233	0%	0%
	Well 234	19%	3%
	Total	66%	11%
North of Ridgecrest Dr.		66,966,000	65
Percent Captured	Well 228	66%	57%
	Well 233	0%	0%
	Well 234	33%	42%
	Total	99%	99.5%

Legend

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

Plume Area Horizontal Capture Analysis

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



N

05001,0002,000

Feet

1 inch = 1,000 feet

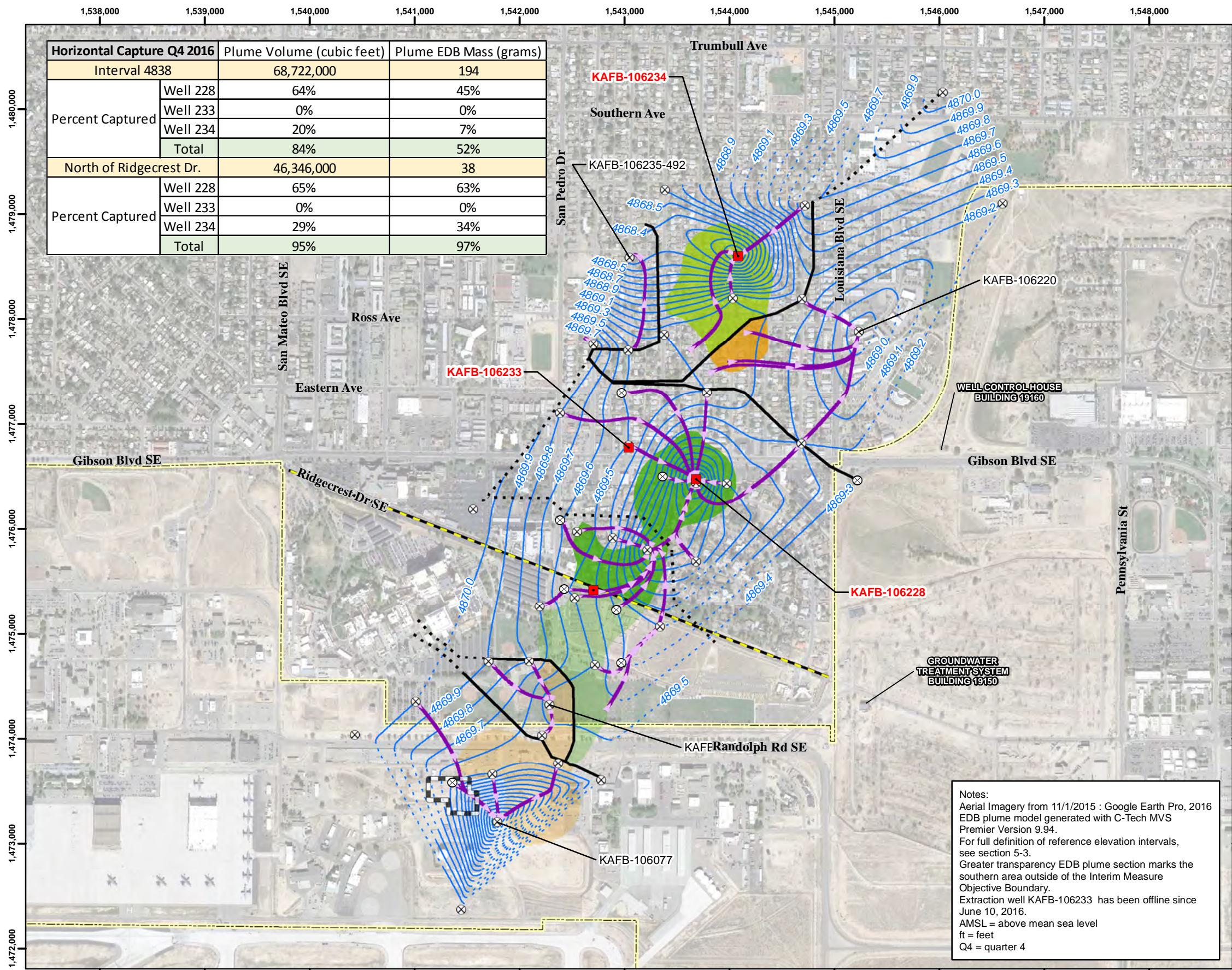
Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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FIGURE 5-5

HORIZONTAL CAPTURE IN
REFERENCE ELEVATION INTERVAL 4857
Q4 2016

Notes:
Aerial Imagery from 11/1/2015 : Google Earth Pro, 2016
EDB plume model generated with C-Tech MVS
Premier Version 9.94.
For full definition of reference elevation intervals,
see section 5-3.
Greater transparency EDB plume section marks the
southern area outside of the Interim Measure
Objective Boundary.
Extraction well KAFB-106233 has been offline since
June 10, 2016.
AMSL = above mean sea level
ft = feet
Q4 = quarter 4

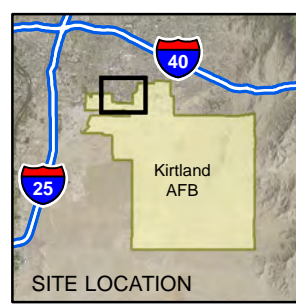


Legend

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

Plume Area Horizontal Capture Analysis

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



N

0 500 1,000 2,000

Feet

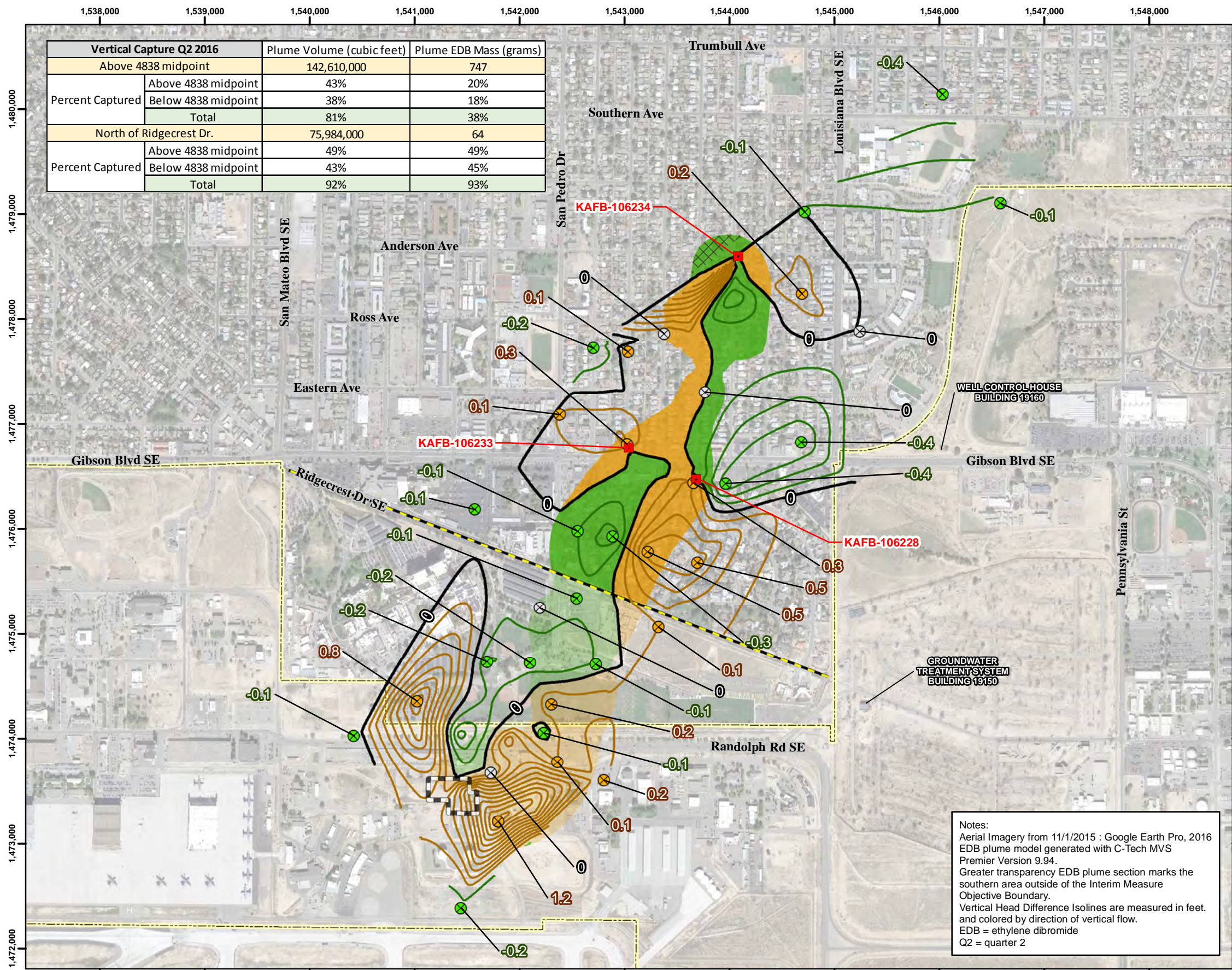
1 inch = 1,000 feet

Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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FIGURE 5-6

**HORIZONTAL CAPTURE IN
REFERENCE ELEVATION INTERVAL 4838
Q4 2016**



Legend

- Extraction Well
- Nested Monitoring Wells**
 - Monitoring Well Defining Upward Vertical Flow
 - Monitoring Well Defining Downward Vertical Flow
 - Monitoring Well Defining No Vertical Flow
- Installation Boundary
- Interim Measure Objective Boundary
- Vertical Head Difference Isolines (Ft)**
 - Upward Vertical Flow
 - Downward Vertical Flow
 - No Flow
- Plume Area Vertical Capture Analysis**
 - Plume Captured
 - Inferred Capture
 - Plume Not Captured
 - Source Area

SITE LOCATION

N

0 500 1,000 2,000

Feet

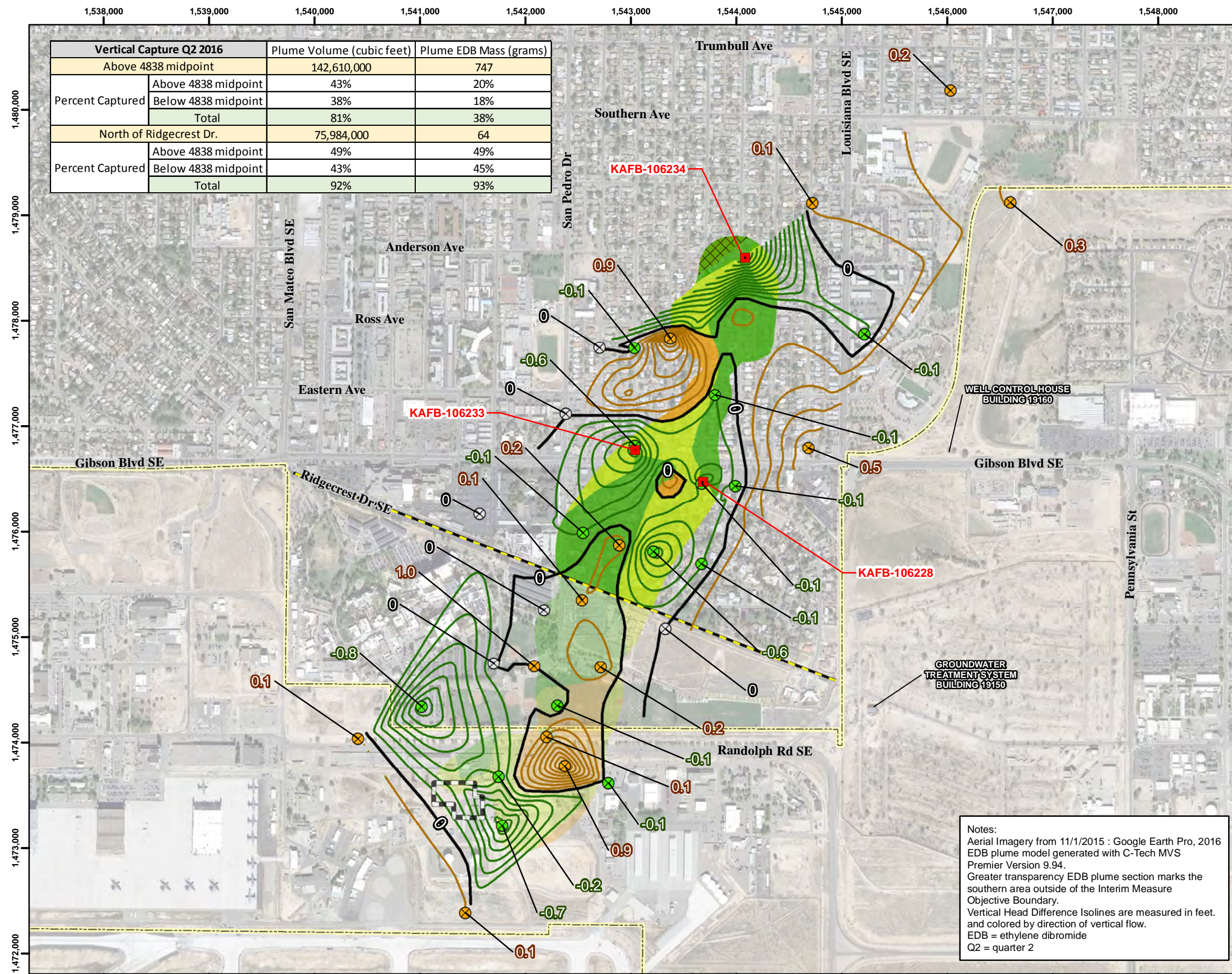
1 inch = 1,000 feet

Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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FIGURE 5-7

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



Legend

■ Extraction Well

Nested Monitoring Wells

⊗ Monitoring Well Defining Upward Vertical Flow

⊗ Monitoring Well Defining Downward Vertical Flow

⊗ Monitoring Well Defining No Vertical Flow

--- Installation Boundary

--- Interim Measure Objective Boundary

Total Plume Vertical Capture Analysis

--- Upward Vertical Flow

--- Downward Vertical Flow

--- No Flow

Plume Area Vertical Capture Analysis

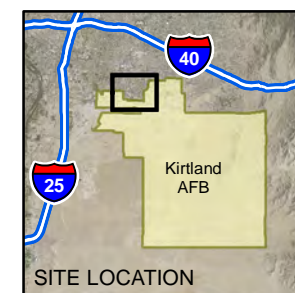
■ Plume Captured Above Mid Point

■ Inferred Capture

■ Plume Captured Below Mid Point

■ Plume Not Captured

■ Source Area



0 500 1,000 2,000
Feet

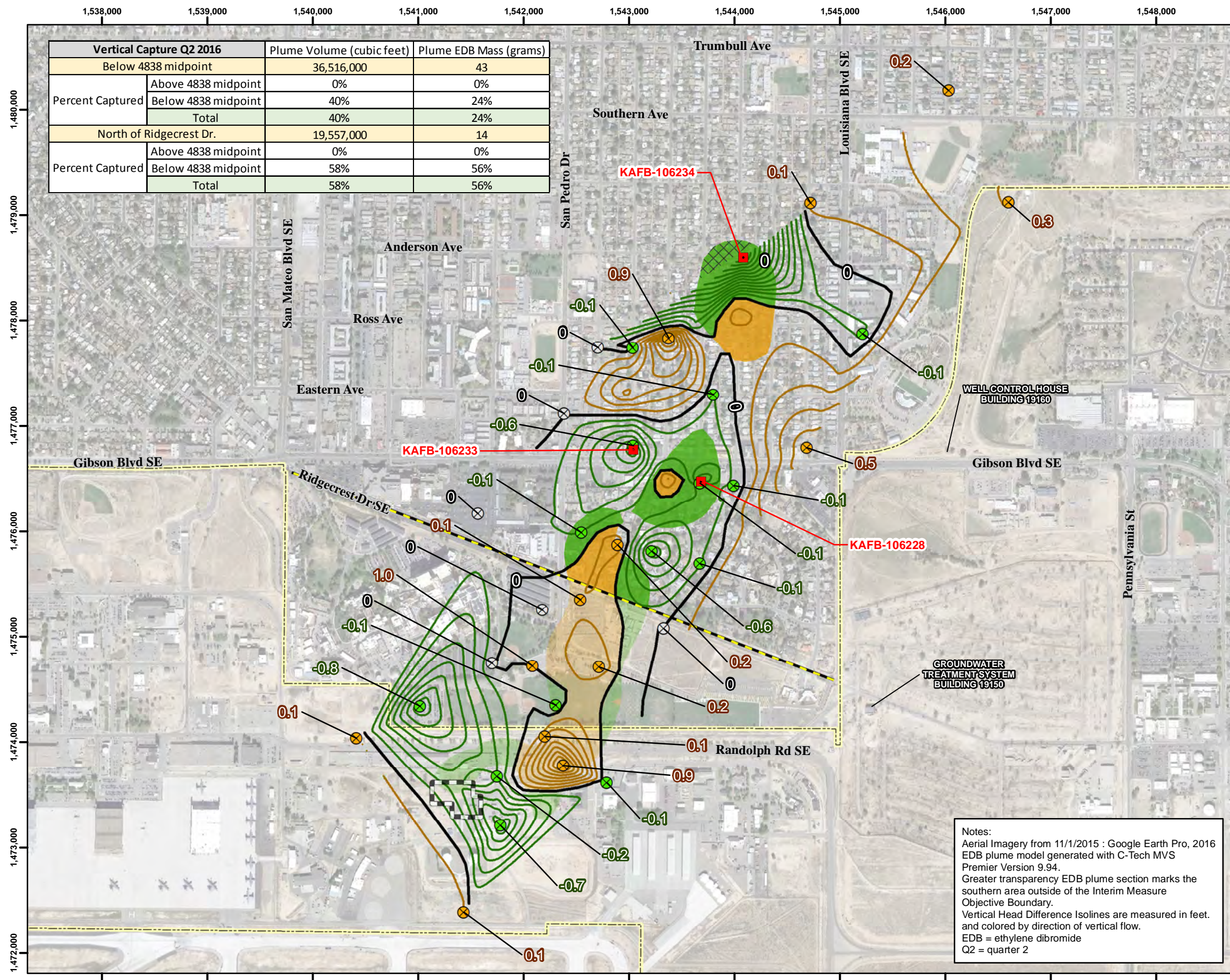
1 inch = 1,000 feet

Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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FIGURE 5-8

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



Legend

- Extraction Well
- Nested Monitoring Wells**
 - Monitoring Well Defining Upward Vertical Flow
 - Monitoring Well Defining Downward Vertical Flow
 - Monitoring Well Defining No Vertical Flow
- Installation Boundary
- Interim Measure Objective Boundary
- Vertical Head Difference Isolines (Ft)**
 - Upward Vertical Flow
 - Downward Vertical Flow
 - No Flow
- Plume Area Vertical Capture Analysis**
 - Plume Captured
 - Inferred Capture
 - Plume Not Captured
 - Source Area

SITE LOCATION

N

0 500 1,000 2,000

Feet

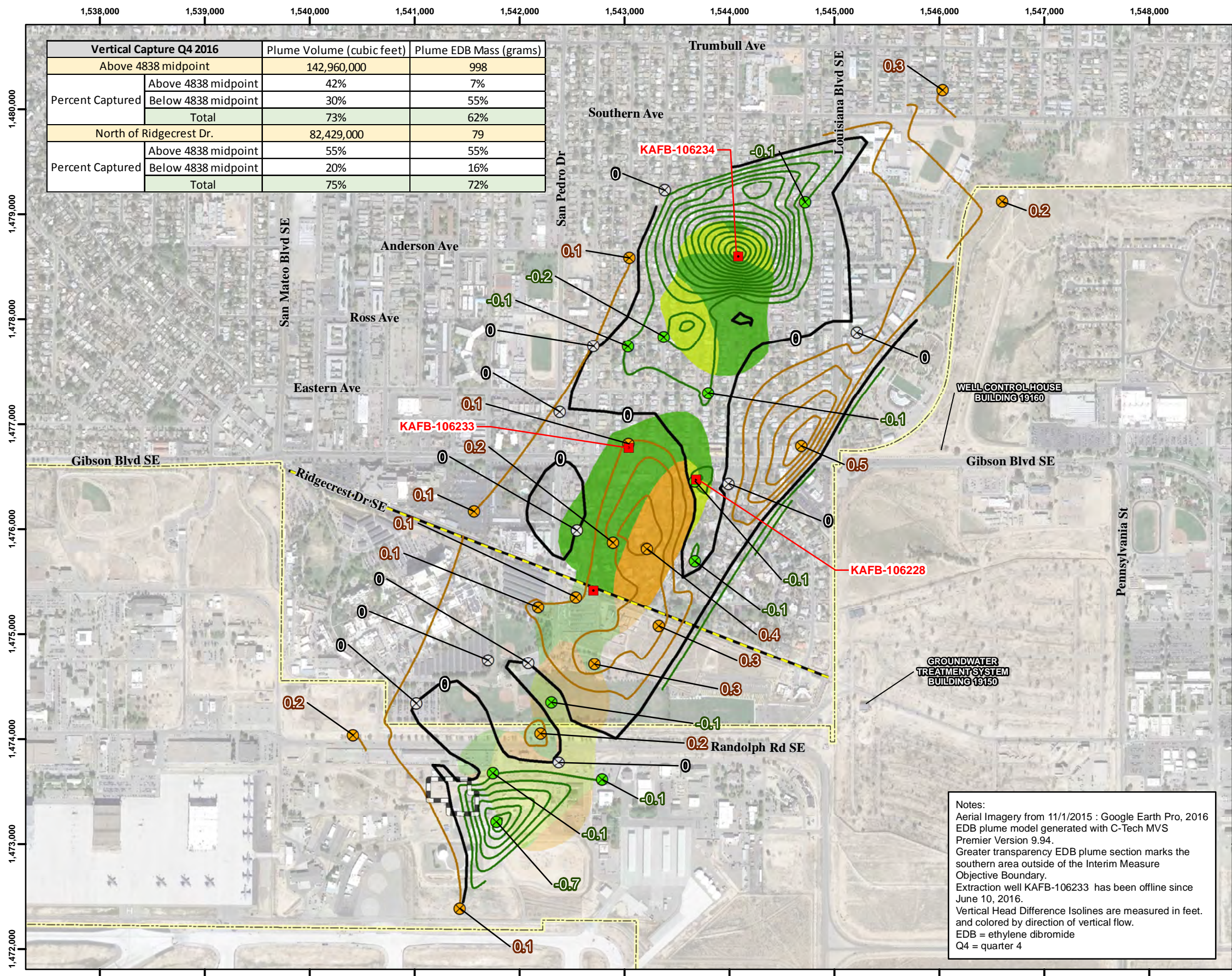
1 inch = 1,000 feet

Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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FIGURE 5-9

VERTICAL CAPTURE BELOW REFERENCE
ELEVATION INTERVAL 4838 MID POINT
Q2 2016



Vertical Capture Q4 2016		Plume Volume (cubic feet)	Plume EDB Mass (grams)
Above 4838 midpoint		142,960,000	998
Percent Captured	Above 4838 midpoint	42%	7%
	Below 4838 midpoint	30%	55%
	Total	73%	62%
North of Ridgecrest Dr.		82,429,000	79
Percent Captured	Above 4838 midpoint	55%	55%
	Below 4838 midpoint	20%	16%
	Total	75%	72%

Legend

- Extraction Well
- Nested Monitoring Wells**
 - Monitoring Well Defining Upward Vertical Flow
 - Monitoring Well Defining Downward Vertical Flow
 - Monitoring Well Defining No Vertical Flow
- Installation Boundary
- Interim Measure Objective Boundary
- Vertical Head Difference Isolines (Ft)**
 - Upward Vertical Flow
 - Downward Vertical Flow
 - No Flow
- Plume Area Vertical Capture**
 - Plume Captured Above Mid Point
 - Plume Captured Below Mid Point
 - Plume Not Captured
- Source Area

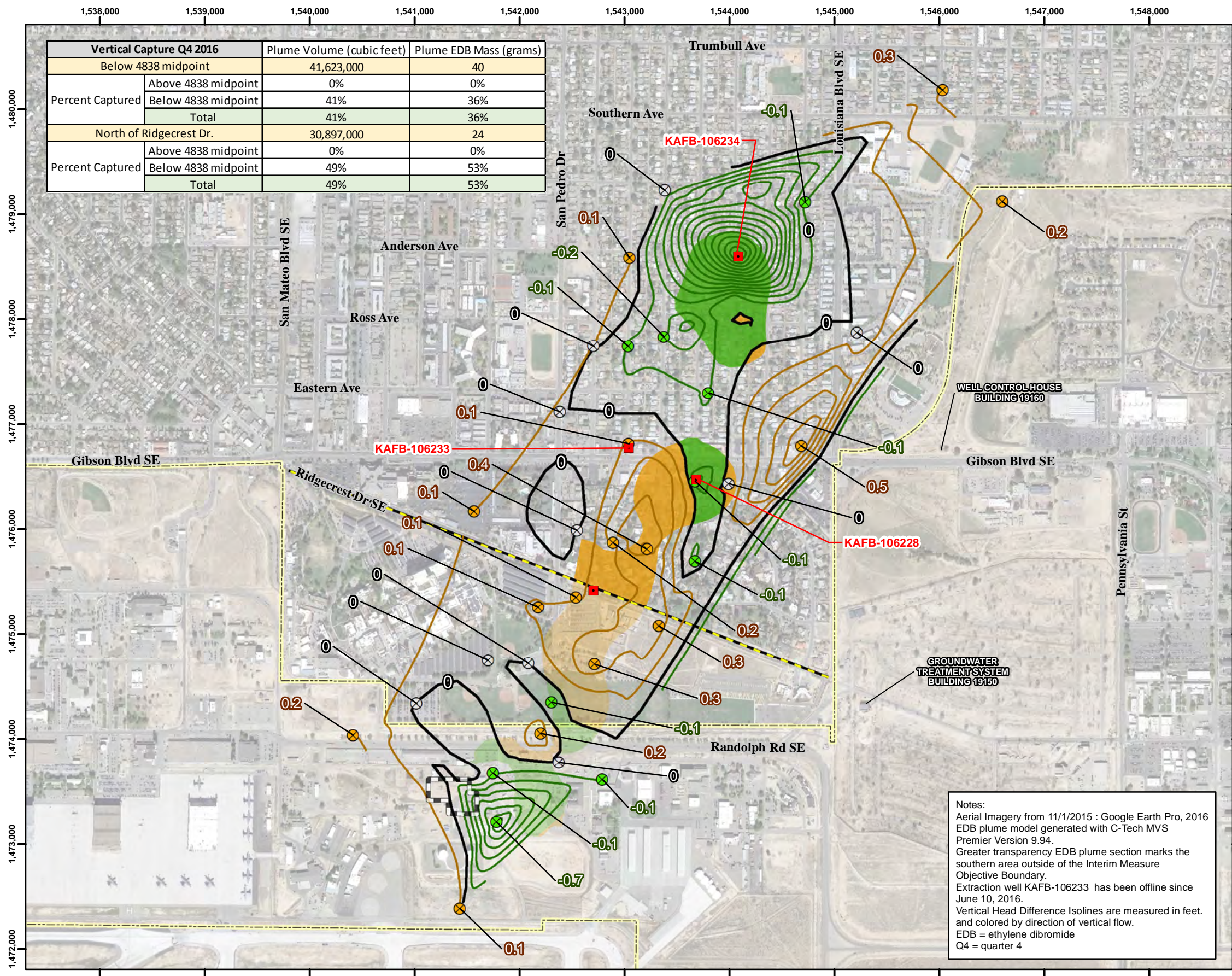
Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

1 inch = 1,000 feet

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FIGURE 5-11

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



Vertical Capture Q4 2016		Plume Volume (cubic feet)	Plume EDB Mass (grams)
Below 4838 midpoint		41,623,000	40
Percent Captured	Above 4838 midpoint	0%	0%
	Below 4838 midpoint	41%	36%
	Total	41%	36%
North of Ridgecrest Dr.		30,897,000	24
Percent Captured	Above 4838 midpoint	0%	0%
	Below 4838 midpoint	49%	53%
	Total	49%	53%

Legend

- Extraction Well
- Nested Monitoring Wells**
 - Monitoring Well Defining Upward Vertical Flow
 - Monitoring Well Defining Downward Vertical Flow
 - Monitoring Well Defining No Vertical Flow
- Installation Boundary
- Interim Measure Objective Boundary
- Vertical Head Difference Isolines (Ft)**
 - Upward Vertical Flow
 - Downward Vertical Flow
 - No Flow
- Plume Area Vertical Capture Analysis**
 - Plume Captured
 - Plume Not Captured
 - Source Area

SITE LOCATION

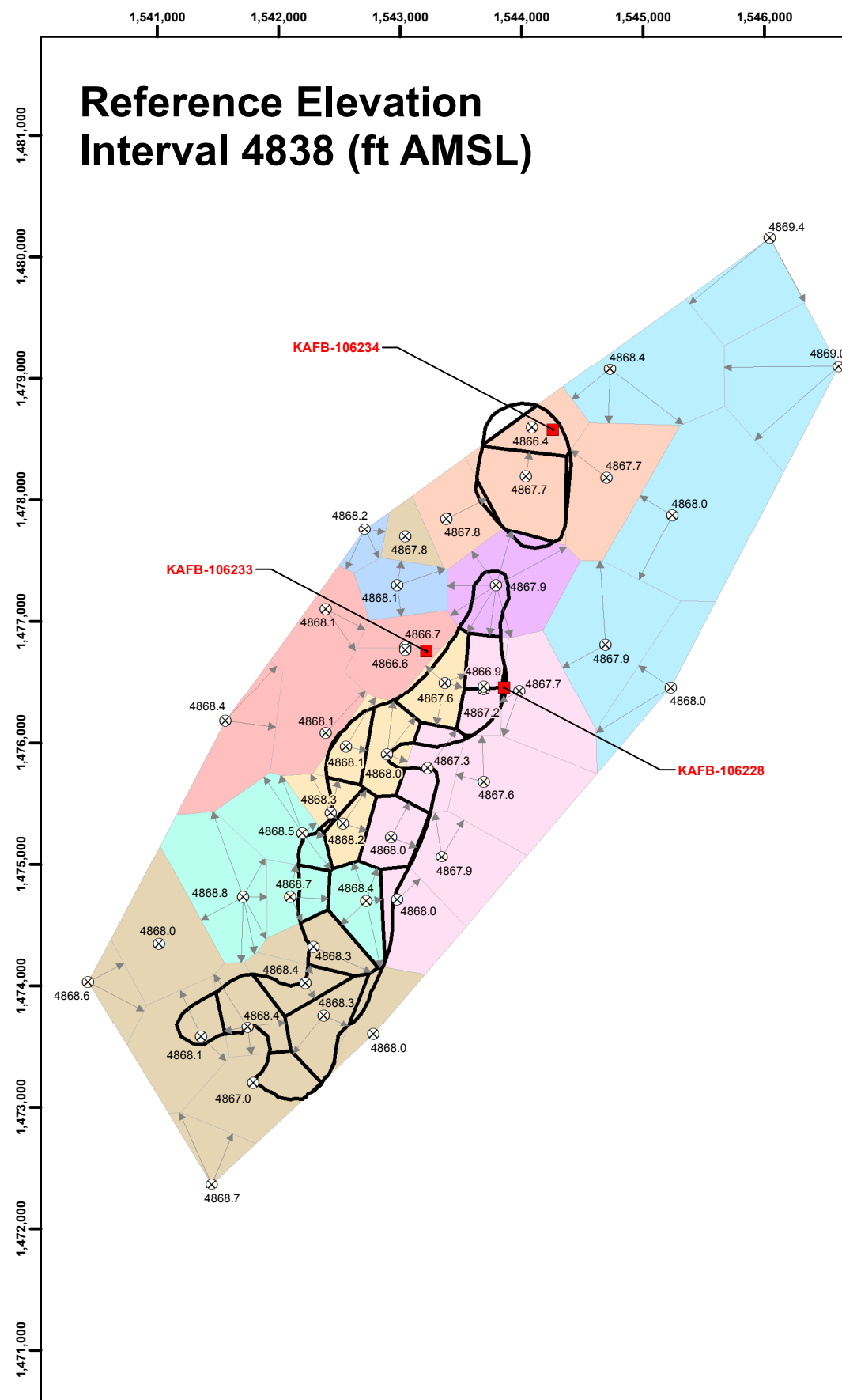
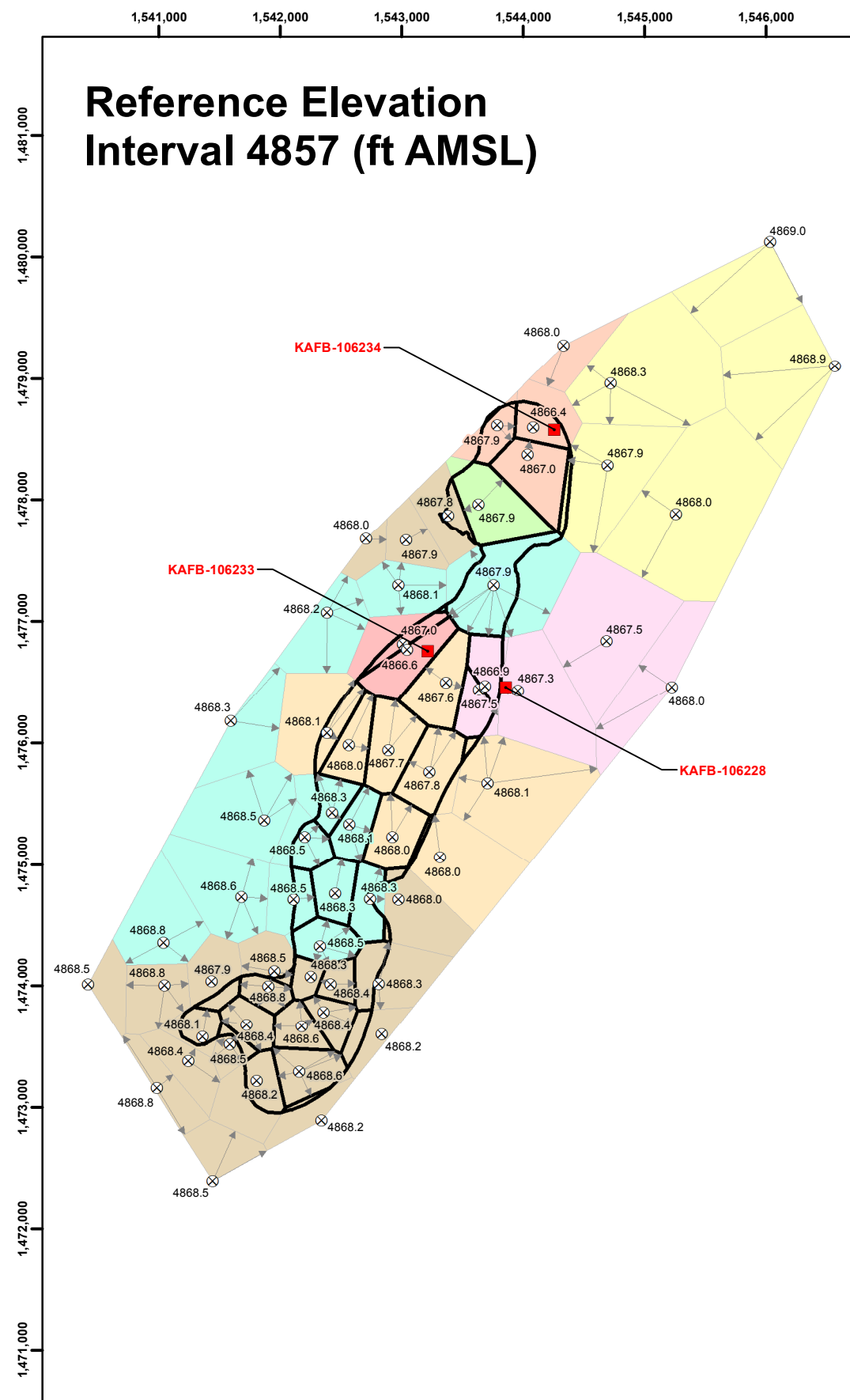
0 500 1,000 2,000
Feet
1 inch = 1,000 feet
Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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FIGURE 5-12

VERTICAL CAPTURE BELOW REFERENCE
ELEVATION INTERVAL 4838 MID POINT
Q4 2016

Notes:
Aerial Imagery from 11/1/2015 : Google Earth Pro, 2016
EDB plume model generated with C-Tech MVS
Premier Version 9.94.
Greater transparency EDB plume section marks the
southern area outside of the Interim Measure
Objective Boundary.
Extraction well KAFB-106233 has been offline since
June 10, 2016.
Vertical Head Difference Isolines are measured in feet.
and colored by direction of vertical flow.
EDB = ethylene dibromide
Q4 = quarter 4



Legend

- ⊗ Groundwater Monitoring Pair Wells with Groundwater Elevation (ft AMSL)
- Extraction Well

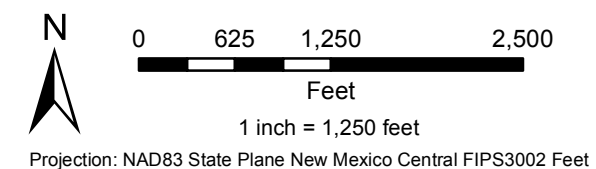
→ Flow Direction

□ Q2 EDB Plume >0.05 µg/L (EPA MCL)

Captured by Extraction Well

- KAFB-106228
- KAFB-106233
- KAFB-106234
- KAFB-106228 or KAFB-106233
- KAFB-106228 or KAFB-106234
- KAFB-106228 or Not Captured
- KAFB-106234 or Not Captured
- KAFB-106228, KAFB-106233, or Not Captured
- KAFB-106228, KAFB-106234, or Not Captured
- KAFB-106233, KAFB-106234, or Not Captured
- KAFB-106228, KAFB-106233, KAFB-106234, or Not Captured
- Not Captured

Notes:
EDB plume model generated with
C-Tech MVS Premier Version 9.94
ft AMSL = feet above mean sea level
Q2 = quarter 2
µg/L = microgram(s) per liter
EDB = ethylene dibromide
EPA MCL = United States Environmental Protection Agency
Maximum Contaminant Level



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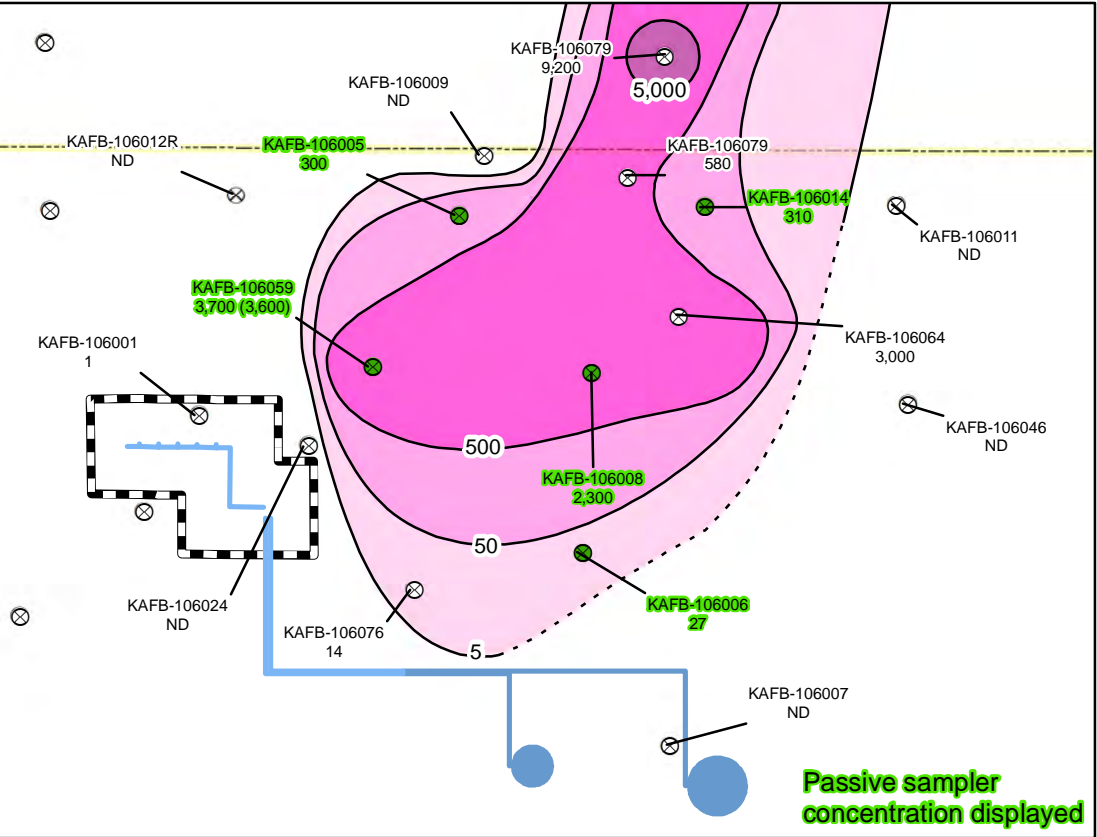
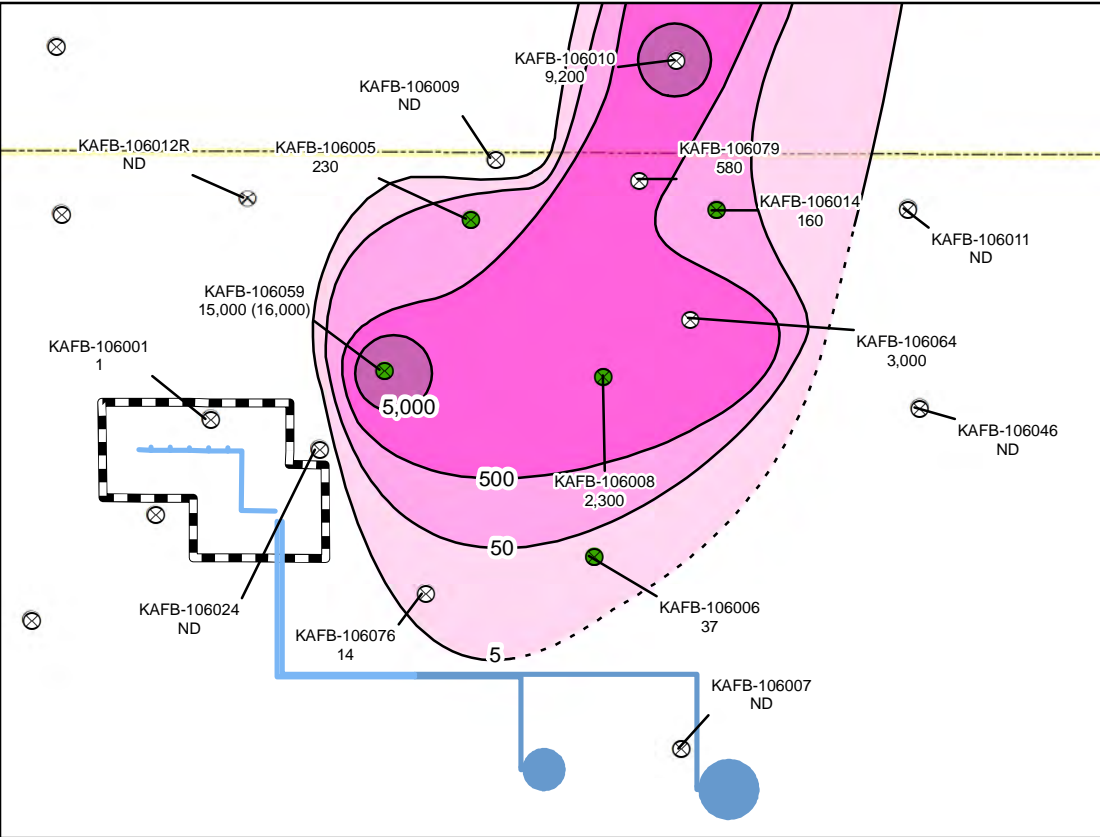
FIGURE I-6-1

WATER LEVEL PAIRS
INTERVAL 4857 AND INTERVAL 4838
Q2 2016

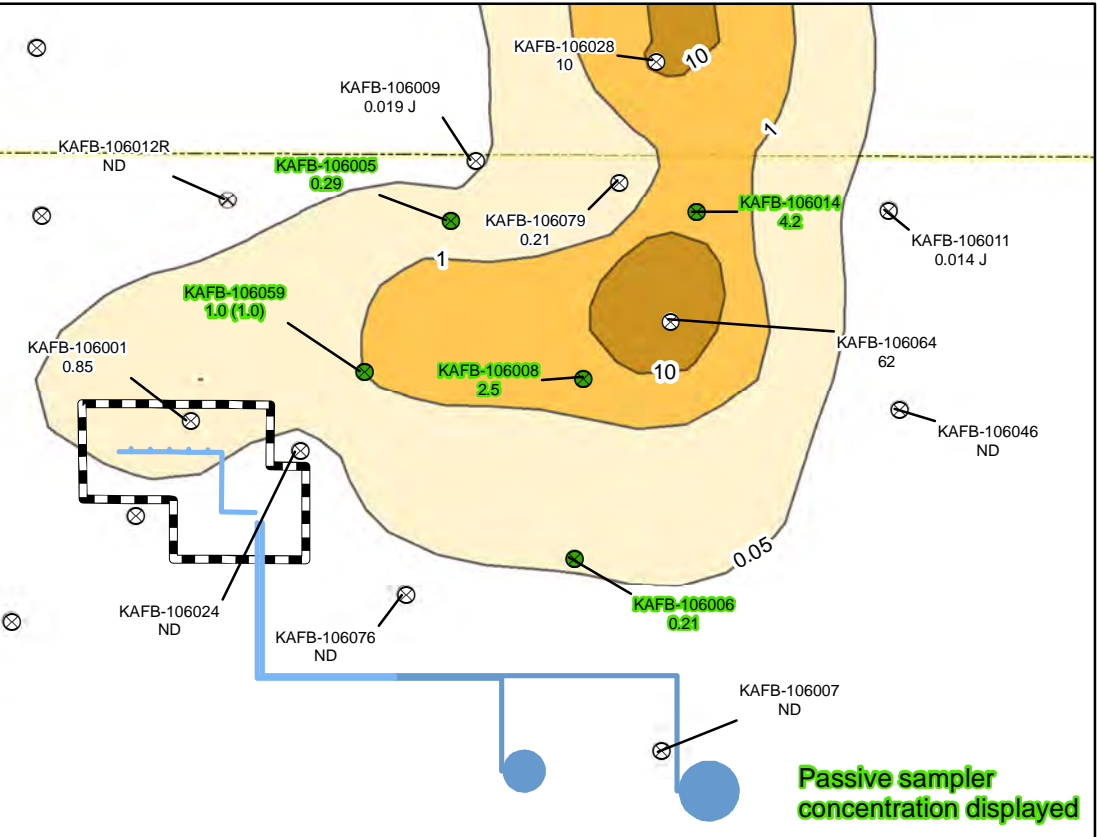
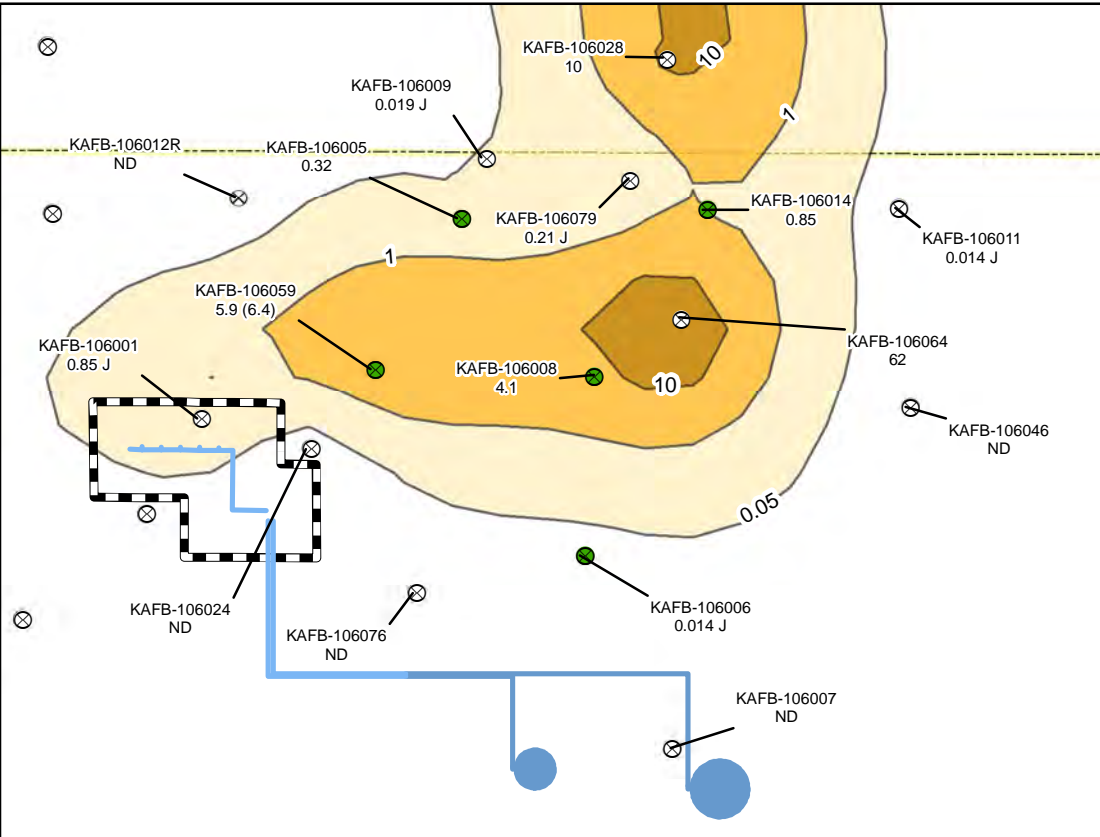
Low Flow Grab Samples

Passive Samples

Benzene



EDB



Legend

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

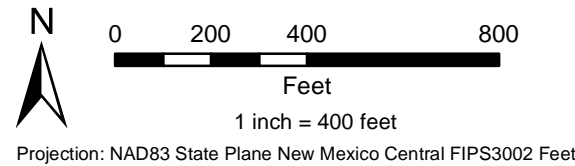
Benzene Concentration Range

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

EDB Concentration Range

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

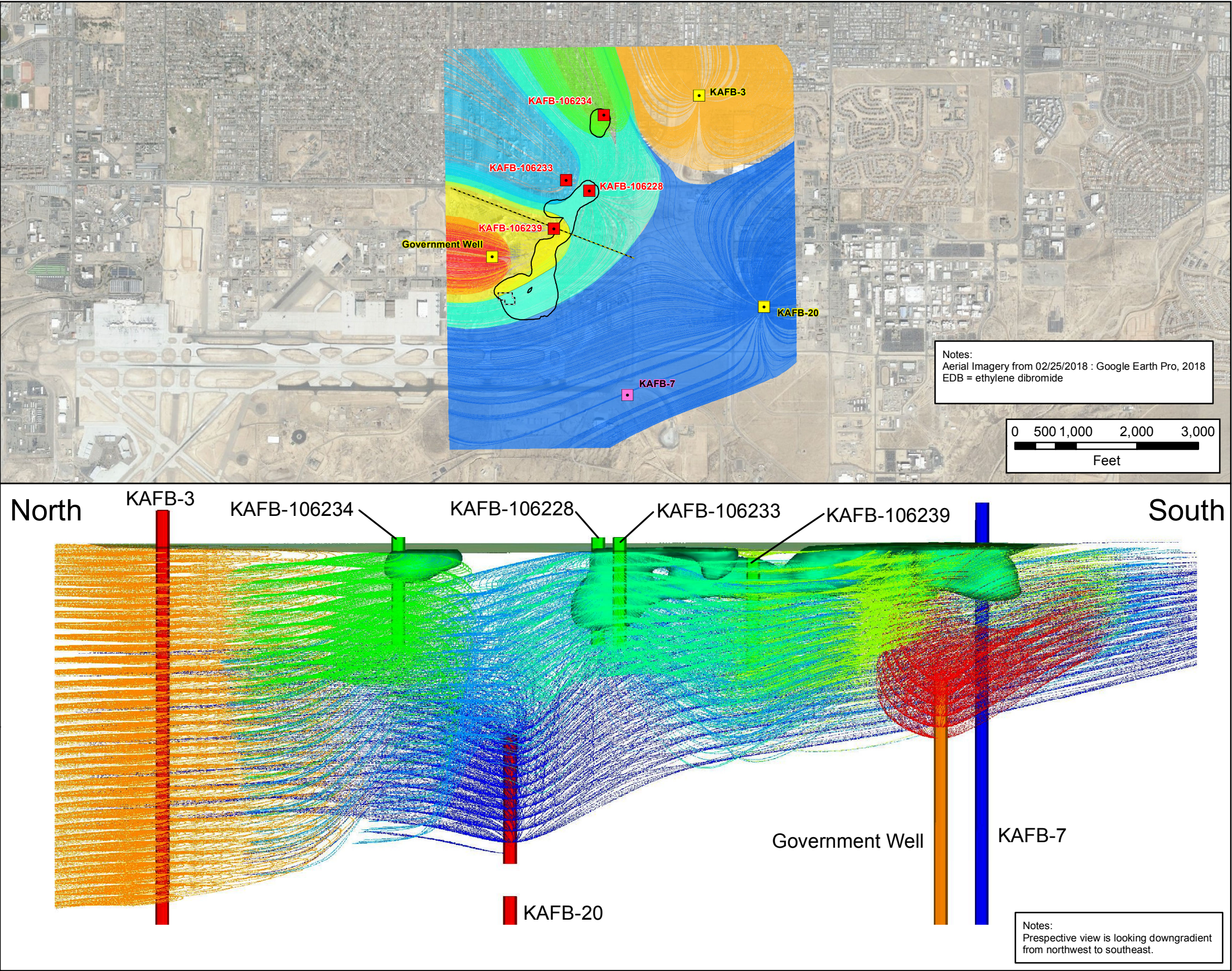
Notes:
Monitoring wells used in comparison study:
KAFB-106005, KAFB-106006, KAFB-106008,
KAFB-106014, and KAFB-106059.
EDB plume based on model generated with
C-Tech MVS Premier Version 9.94.
Values in parentheses are duplicate sample results.
All units are measured in µg/L.
µg/L = micrograms per liter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



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FIGURE 3-23

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



Legend

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

EDB Plume Capture Analysis

- Q2 2018 EDB Plume
- Captured by KAFB-20
 - Captured by KAFB-106228
 - Captured by KAFB-106233
 - Captured by KAFB-106234
 - Captured by KAFB-106239

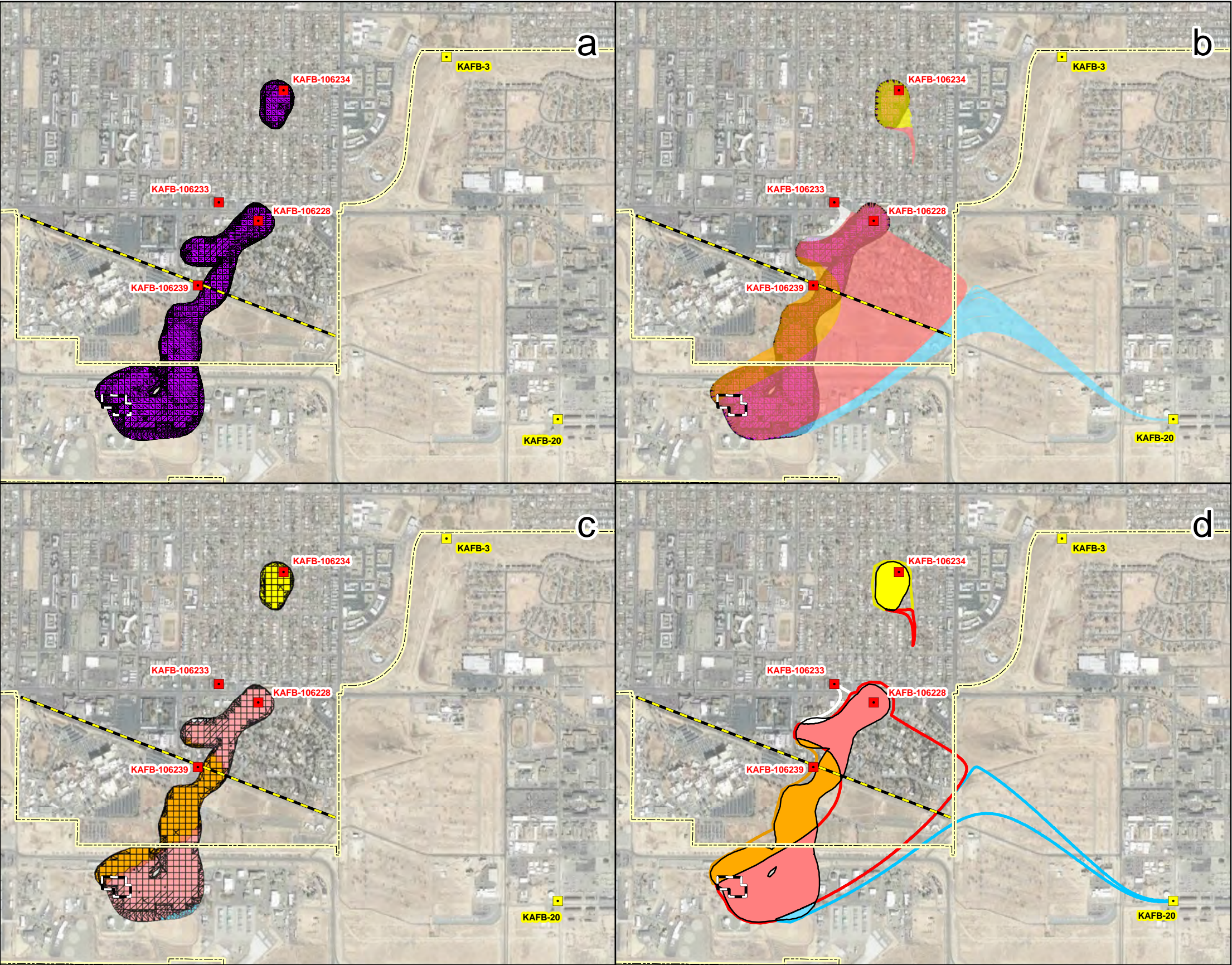


Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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FIGURE I-7-8

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

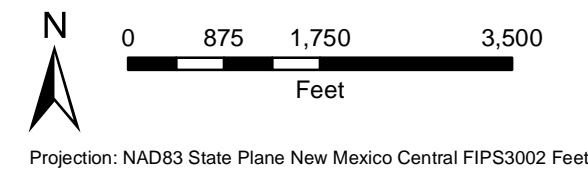


Legend

- Model Assigned Interim Measure Extraction Well
- Model Assigned Drinking Water Supply Well
- Modeled Plume Cell Centroid
- KAFB-20 Extraction Well Capture Particle Track
- KAFB-106228 Extraction Well Capture Particle Track
- KAFB-106233 Extraction Well Capture Particle Track
- KAFB-106234 Extraction Well Capture Particle Track
- KAFB-106239 Extraction Well Capture Particle Track
- Interim Measure Objective Area Boundary
- Installation Boundary
- Modeled Plume Cell
- Source Area

EDB Plume Area Capture Analysis

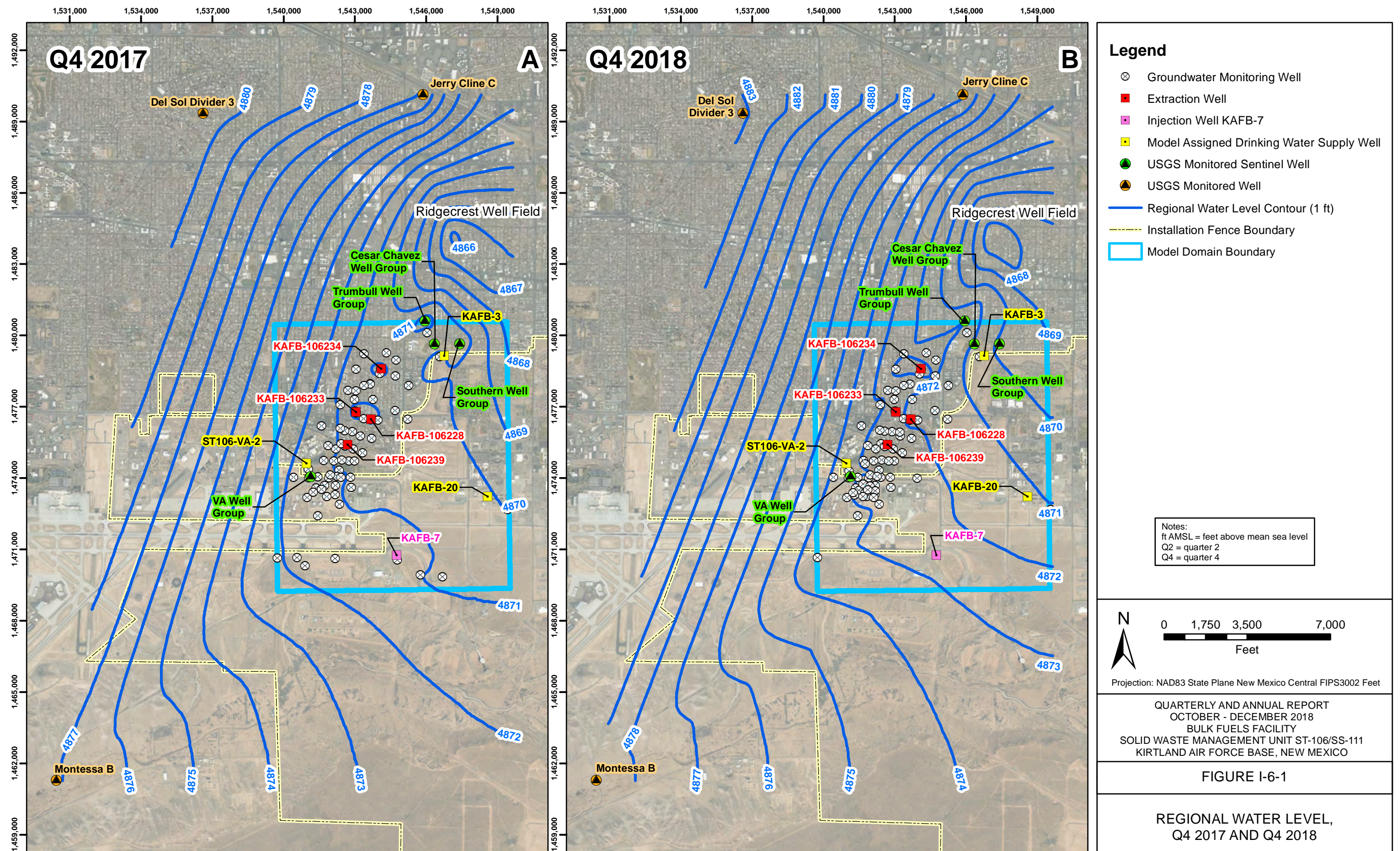
- Captured by KAFB-20
- Captured by KAFB-106228
- Captured by KAFB-106233
- Captured by KAFB-106234
- Captured by KAFB-106239

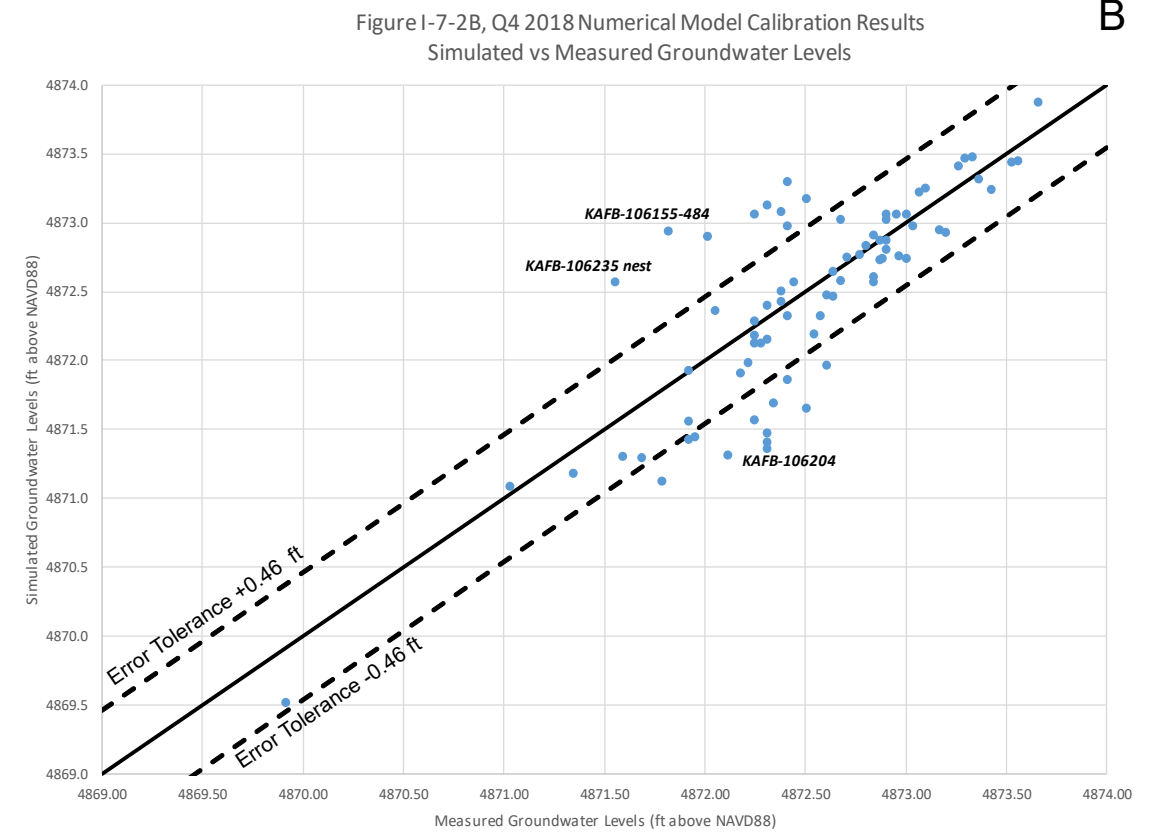
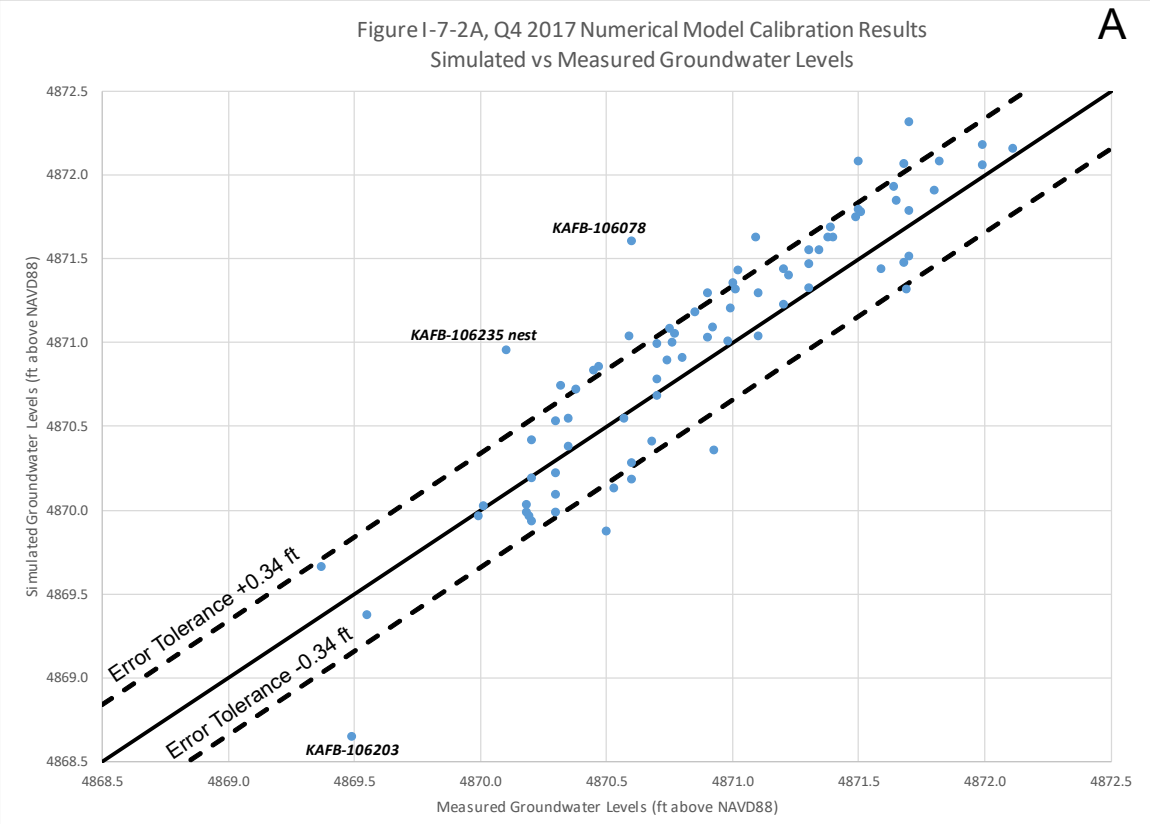


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FIGURE I-7-9

MODEL DESIGN METHOD STEPS





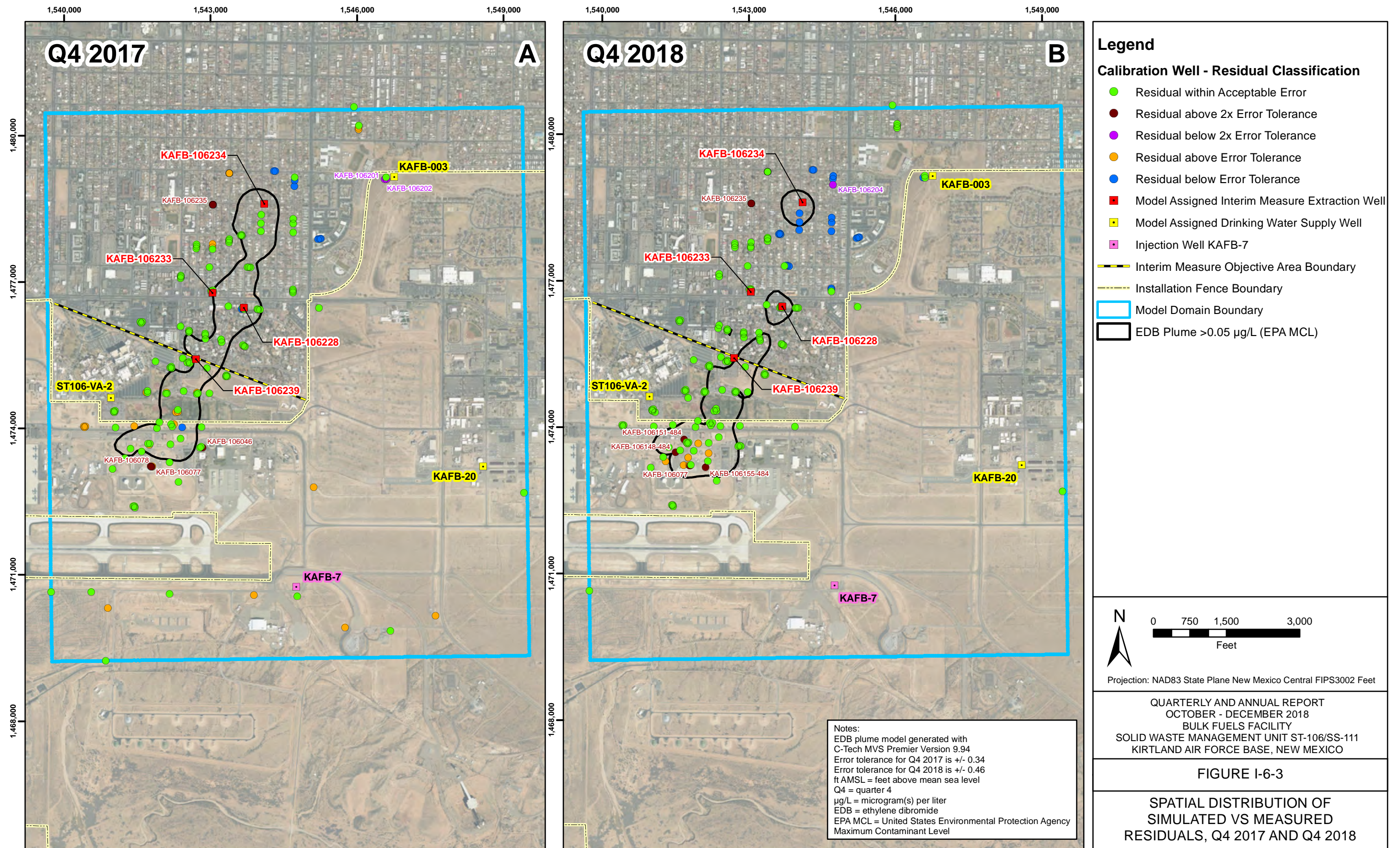
Legend

● Simulated vs Measured Groundwater Level

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KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE I-6-2

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



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

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

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

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

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Groundwater Monitoring Wells Included in Q4 2016 Monitoring Activities

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

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

^a Screen interval is rounded to the nearest foot.

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

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

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

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

AMSL = above mean sea level

bgs = below ground surface

EDB = ethylene dibromide

FP = field parameter

ft = foot/feet

ID = identification

Q = quarter

VOC = volatile organic compound

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

^b Nondetect results are reported less than the LOD.

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

-- = sample not analyzed for this parameter

DMS = dual-membrane sampler

EDB = ethylene dibromide (1,2-dibromoethane)

LOD = limit of detection

LOQ = limit of quantitation

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

RPD = relative percent difference

VOC = volatile organic compound

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

Qualifiers:

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

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

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

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

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

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

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

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

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

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

µg/L = microgram per liter

µS/cm = microsiemens per centimeter

°C = degree Celsius

EPA = U.S. Environmental Protection Agency

ID = identification

NMAC = New Mexico Administrative Code

NMWQCC = New Mexico Water Quality Control Commission

REG = normal field sample

Spec Cond = Specific Conductivity

S.U. = standard unit

Table 3-1
Groundwater Monitoring Program

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

Groundwater Monitoring Program

[illegible]

Groundwater Monitoring Program

[illegible]

Table 3-1
Groundwater Monitoring Program

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

Table 3-1
Groundwater Monitoring Program

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

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

^c Well no longer sampled due to safety concerns.

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

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

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

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

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

^g Monitoring Well Objective:

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

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

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

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

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

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

BTEX = benzene, toluene, ethylbenzene, and total xylenes

EDB = ethylene dibromide

FP = field parameter

ID = identification

NA = not applicable

VOC = volatile organic compound

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

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

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

Notes:

ft = foot/feet

NAVD88 = North American Vertical Datum of 1988

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

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

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

amsl = above mean sea level

ft = foot/feet

ID = identification

USACE = U.S. Army Corps of Engineers

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

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

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

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

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

Bold text indicates value meets calibration criteria

Light shading indicates simulation meets all calibration criteria

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