

FREMONT ENVIRONMENTAL INC.

September 16, 2021

Mr. Jason Davidson
Great Western Operating Company, LLC
1001 17th Street, Suite 2000
Denver, CO 80202

Subject: **Site Investigation Report**
UPRR Meyer #1
API # 05-001-06793
SWSE Sec 9, T2S, R63W
Adams County, Colorado
Fremont Project No. C020-031
Facility #319791, Remediation #9464

Dear Mr. Davidson:

Enclosed please find a copy of the above referenced Site Investigation Report for the UPRR Meyer #1 site in Adams County, Colorado. The enclosed report describes site investigation and sampling efforts to assess soil and groundwater quality at the site.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Enclosure

SITE INVESTIGATION REPORT

GREAT WESTERN OPERATING COMPANY, LLC

UPRR MEYER #1

ADAMS COUNTY, COLORADO

FREMONT PROJECT NO. C020-031

FACILITY #319791, REMEDIATION #9464

Prepared by:

Fremont Environmental Inc.

1759 Redwing Lane

Broomfield, CO 80020

(303) 956-8714

September 16, 2021

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SITE INVESTIGATION REPORT
GREAT WESTERN OPERATING COMPANY, LLC
UPRR MEYER #1
ADAMS COUNTY, COLORADO
FREMONT PROJECT NO. C020-031
FACILITY #319791, REMEDIATION #9464

1.0 INTRODUCTION

The purpose of this document is to present subsurface data collected during a site investigation at the Great Western Operating Company, LLC (GWOC) UPRR Meyer #1 site in Adams County, Colorado. The wellhead and equipment from this site were removed several years ago, however, environmental closure had not been granted. In June 2021, three soil borings to a depth of 35 to 40 feet were advanced with a Geoprobe until refusal was met. Subsequently, two soil borings were advanced using a hollow stem auger rig in August 2021 to fully delineate the site. Groundwater was not encountered.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The UPRR Meyer #1 site is located approximately 11 miles north of Bennett, Colorado in Adams County as shown on Figure 1. The site is located in an agricultural area approximately 0.3 miles northwest of the intersection of County Road 33 and East 104th Avenue. The location is further described as the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 9, Township 2S, Range 63W.

2.2 Site History

The UPRR Meyer #1 well was drilled in 1974 to a vertical depth of approximately 7,671 feet. The well and facility were permanently abandoned in 2019.

3.0 SITE INVESTIGATION ACTIVITIES

3.1 Soil Borings/Monitoring Wells

A site investigation was conducted at the facility between June 22 and August 19, 2021. During the June 2021 work, three soil borings (SB-A, SB-B and SB-C) were advanced utilizing a direct push Geoprobe rig. Refusal was encountered in each boring at a depth of 35 to 40 feet. In order to obtain soil samples from a greater depth, a hollow stem auger rig was mobilized to the site in August 2021. Two borings (SVE-N and SVE-S) were advanced to depths of 45 feet and 55 feet. The locations of the borings are illustrated on Figure 2.

As shown on the boring logs in Appendix A, the subsurface generally consists of sandy silt to approximately 10 feet. The silt is underlain by sand to at least 55 feet. Geologic cross sections for the site are presented on Figure 4. Soil samples from each of the borings were evaluated in the field for the presence of hydrocarbon vapor using a photoionization detector (PID). PID data is shown on the boring logs and cross sections.

Two to four soil samples from each of the five borings were sent to Origins Laboratories, Inc. in Denver, Colorado for the analyses of benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene, trimethylbenzenes, total petroleum hydrocarbons-gasoline range organics (TPH-GRO), TPH-diesel range organics (TPH-DRO), and TPH-residual range organics (TPH-ORO). Inorganic constituent analyses at the former water vault included electrical conductivity (EC), pH, sodium absorption ratio (SAR) and boron.

The results of these analyses are presented on Figure 5 and summarized on Tables 1 and 2 while the laboratory's reports are provided in Appendix B. The laboratory data from soil borings SB-A (at the former water pit) and SB-B (at the former AST) indicate that soil impacts exceeding the COGCC Table 915-1 limits are present from a depth of

approximately 10 feet to 40 feet beneath the former water vault and the aboveground storage tank. Refusal was encountered for SB-A and SB-B at depths of 40 and 35 feet, respectively.

Soil borings SVE-S and SVE-N were installed immediately adjacent to borings SB-A and SB-B, respectively, to fully delineate the extent of vertical soil impacts in these two areas. Boring SVE-S exhibited elevated PID and TPH concentrations at 35 feet, however, the soil sample from 45 feet had concentrations that were less than the Table 915-1 limits. Soil samples collected at 45 feet and 55 feet from boring SVE-N both had concentrations less than the Table 915-1 limits.

The laboratory data indicate that petroleum-impacted soil is present from approximately 10 feet to approximately 40 feet at the former water pit (SB-A and SVE-S). Further, soil impacts are present from approximately 15 feet to approximately 40 feet at the former AST location (SB-B and SVE-N). Soil impacts were not present at the former meter building and separator area as indicated by boring SB-C, which was not impacted from the ground surface to 35 feet.

Borings SVE-N and SVE-S were both completed as 2-inch diameter soil vapor extraction (SVE) wells in case that remedial approach is utilized. Boring SVE-N is screened from 30 to 45 feet while SVE-S is screened from 10 feet to 25 feet.

3.2 Groundwater Monitoring

A 2020 regional groundwater study prepared by the Division of Water Resources suggested that groundwater might be present at a depth of approximately 125 feet in this area. Further, in the two areas of soil impacts, clean soil samples were present at 45 and 55 feet below grade. Therefore, it is unlikely that groundwater is impacted beneath this

facility. As a result, the COGCC Table 915-1 Residential Soil Screening Levels (SSLs) will be utilized.

4.0 DISCUSSION

A site investigation was conducted at the UPRR Meyer #1 location during June and August 2021 to determine if soil impacts were present at the former facility.

Five borings were advanced to delineate the magnitude and extent of soil impacts. Fourteen soil samples were collected and analyzed; soil impacts above the COGCC Table 915-1 limits were observed beneath the former water vault and aboveground storage tank to a maximum depth of approximately 40 feet during the site investigation.

Based on the site characteristics, Great Western has determined that the most feasible remedial approach for this site will be SVE. The two existing SVE wells (SVE-N and SVE-S) will be tied into a propane-powered SVE vacuum blower to remediate impacted soil at the site. The Residential SSLs will be utilized as the remediation standard.

5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



9/16/21

Date _____

Paul V. Henehan, P.E.

Senior Consultant

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY
UPRR MEYER 1, ADAMS COUNTY, COLORADO
FREMONT PROJECT NO. C021-031

Sample	Depth (ft)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
SB-A 12 Ft	12	6/22/2021	<0.002	<0.002	<0.002	0.0138	0.0258	0.0025	<0.01	358	1050	263
SB-A 22 Ft	22	6/22/2021	<0.05	<0.05	7.93	187	26	46.1	3.57	982	2120	311
SB-A 28 Ft	28	6/22/2021	<0.05	<0.05	0.81	13.5	15	5.5	4.6	1070	941	<200
SB-A 36Ft	36	6/22/2021	<0.002	<0.002	0.0676	1.11	4.72	0.386	0.159	267	191	<200
SB-B 16 Ft	16	6/22/2021	<0.05	<0.05	5.69	78.4	21.4	8.19	1.9	1190	699	<200
SB-B 26 Ft	26	6/22/2021	<0.05	<0.05	0.356	5.68	3.63	1.32	0.6	145	180	<200
SB-B 35 Ft	35	6/22/2021	<0.05	0.128	7.01	98.4	30.6	11.4	2.61	1800	935	<200
SB-C 20 Ft	20	6/22/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.20	<50.0	<200
SB-C 35 Ft	35	6/22/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.20	<50.0	<200
Vault 5 Ft	5	6/22/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.20	<50.0	<200
Background 1 Ft	1	6/22/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.20	<50.0	<200
SVE-N 45 Ft	45	8/19/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.20	<25.0	<100
SVE-N 55 Ft	55	8/19/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.20	<25.0	<100
SVE-S 35 Ft	35	8/19/2021	<0.002	<0.002	0.249	8.8	5.44	2.13	0.302	327	153	<100
SVE-S 45 Ft	45	8/19/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.20	<25.0	<100
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500	500
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500*	500*	500*

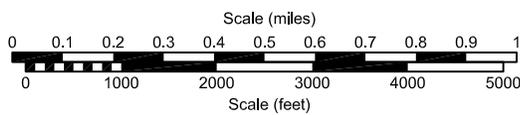
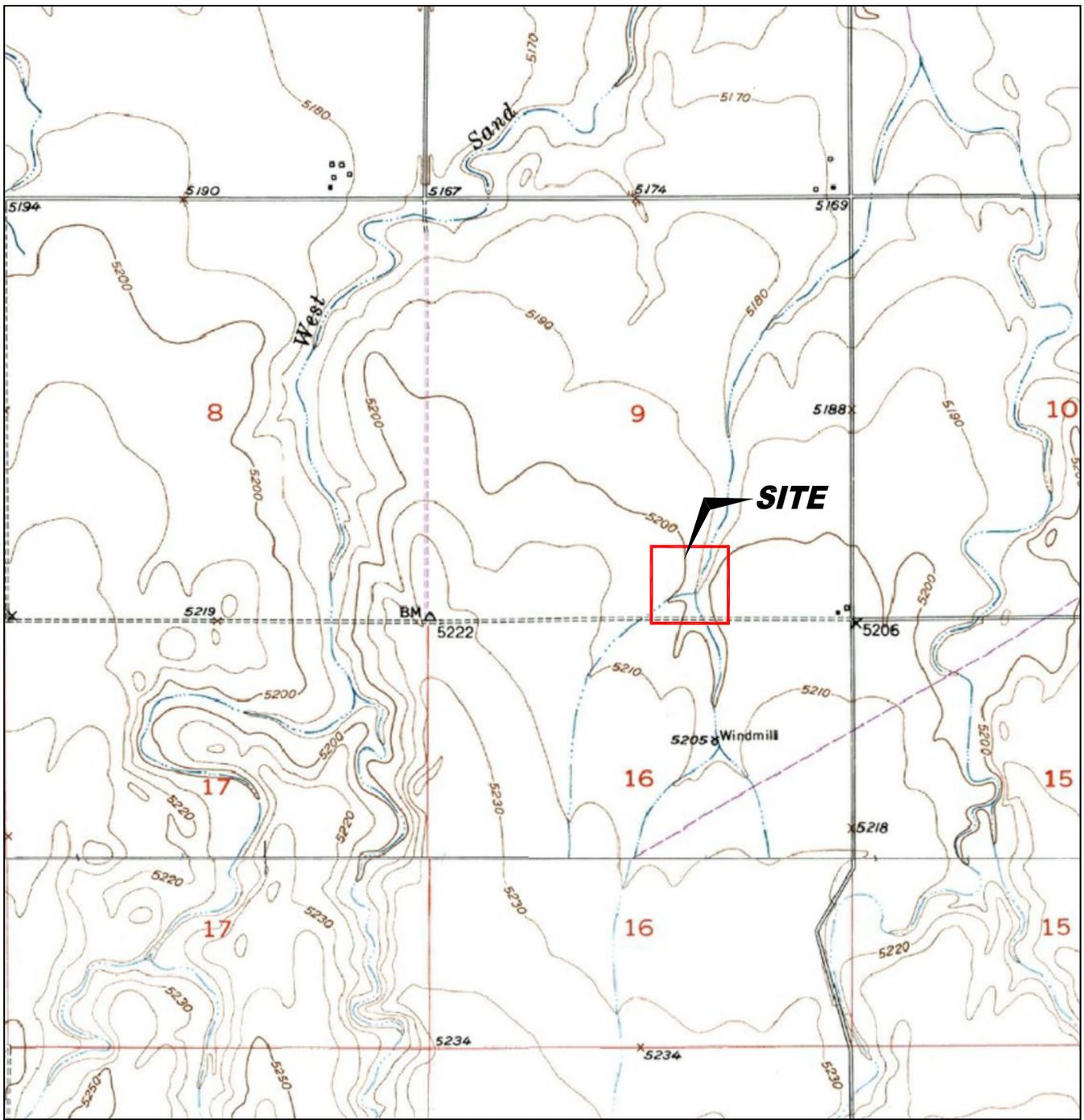
Bold faced values exceed the COGCC Table 915-1 concentrations

TABLE 2
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY
UPRR MEYER #1
FREMONT PROJECT NO. C021-031

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
Vault 5 Ft	6/22/2021	5	0.781	8.07	2.1	0.46
Background 1 Ft	6/22/2021	1	0.64	7.91	0.747	0.516
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

FIGURES



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Great Western Operating Company
UPRR Meyer #1
SWSE Sec. 9, T2S, R63W 6th PM
Adams County, Colorado

Project # C021-031	API # 05-001-06793	Facility # 319791
Date 09/15/21	Remediation #	Filename 21031T





LEGEND

- GEO-PROBE SOIL BORING LOCATION
- SOIL BORING LOCATION
- Ⓧ SOIL VAPOR EXTRACTION WELL LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- ||||| CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE

**Figure 2
SITE MAP**

**Great Western Operating Company
UPRR Meyer #1**
SWSE Sec. 9, T2S, R63W 6th PM
Adams County, Colorado

Project No. C021-031	API # 05-001-06793	Facility # 319791
Date 09/15/21	Remediation #	Filename 21031Q





LEGEND

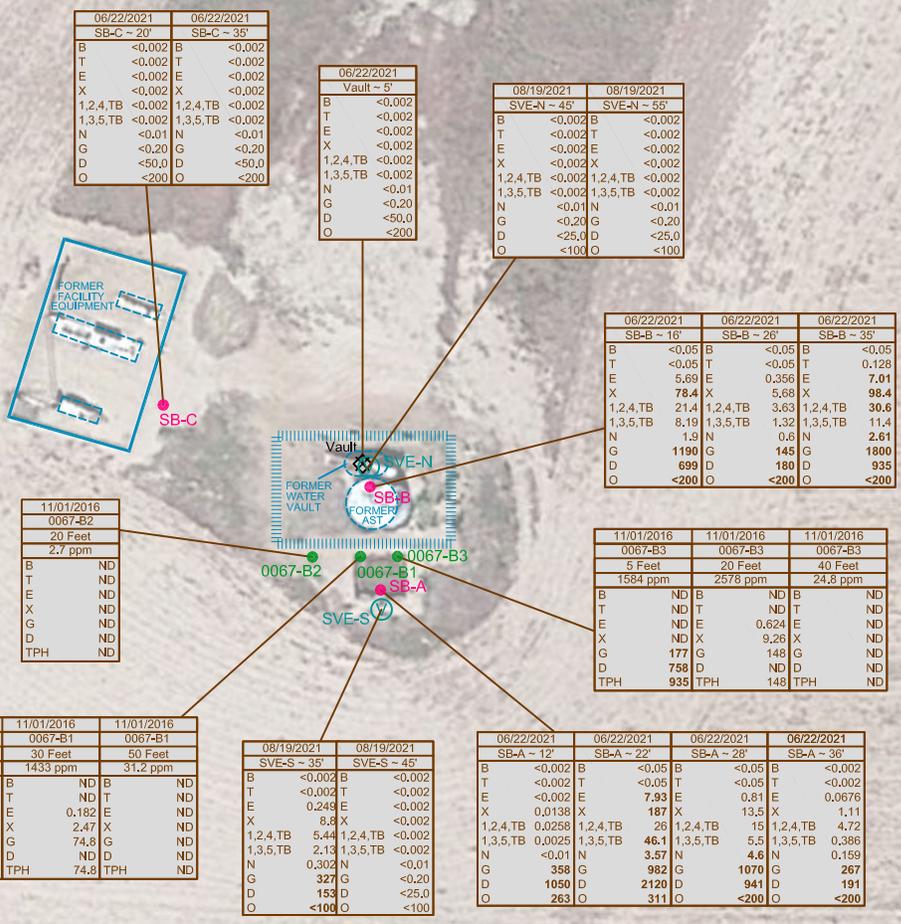
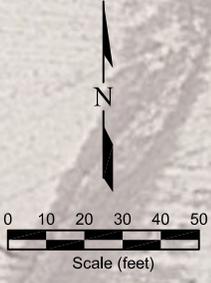
- GEO-PROBE SOIL BORING LOCATION
- SOIL BORING LOCATION
- ⊙ SOIL VAPOR EXTRACTION WELL LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- ||||| CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE
- B — B' CROSS SECTION CUT LINE

Figure 3
CROSS SECTION MAP

Great Western Operating Company
UPRR Meyer #1
 SWSE Sec. 9, T2S, R63W 6th PM
 Adams County, Colorado

Project No. C021-031	API # 05-001-06793	Facility # 319791
Date 09/15/21	Remediation #	Filename 21031Q





LEGEND

- GEO-PROBE SOIL BORING LOCATION
- SOIL BORING LOCATION
- SOIL VAPOR EXTRACTION WELL LOCATION
- FORMER FACILITY
- ABOVE GROUND STORAGE TANK
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE

DATE SAMPLED	SAMPLE ID & DEPTH (ft)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	1,2,4-TRIMETHYLBENZENE (mg/kg)	1,3,5-TRIMETHYLBENZENE (mg/kg)	NAPHTHALENE (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)
06/22/2021	SB-A ~ 12'	<0.002	<0.002	<0.002	0.0138	0.0258	0.0025	<0.01	358	1050	263
11/01/2016	0067-B2 20 Feet	2.7 ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/19/2021	SVE-S ~ 35'	<0.002	<0.002	<0.002	0.248	8.8	<0.002	<0.01	327	153	<100
08/19/2021	SVE-S ~ 45'	<0.002	<0.002	<0.002	0.248	8.8	<0.002	<0.01	327	153	<100
06/22/2021	Vault ~ 5'	SAR 2.1	pH 8.07	EC 0.781	BORON 0.46						

Figure 5
SOIL CHEMISTRY MAP

Great Western Operating Company
UPRR Meyer #1
SWSE Sec. 9, T2S, R63W 6th PM
Adams County, Colorado

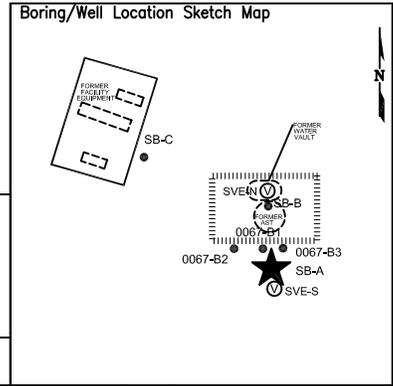
Project No. C021-031	API # 05-001-06793	Facility # 319791	
Date 09/15/21	Remediation #	Filename 21031Q	

PID = PHOTO IONIZATION DETECTOR / ppm = parts per million
TPH = TOTAL PETROLEUM HYDROCARBONS / BOLD = EXCEEDS COGCC TABLE 9104

APPENDIX A
BORING LOGS



BORING/WELL CONSTRUCTION LOG



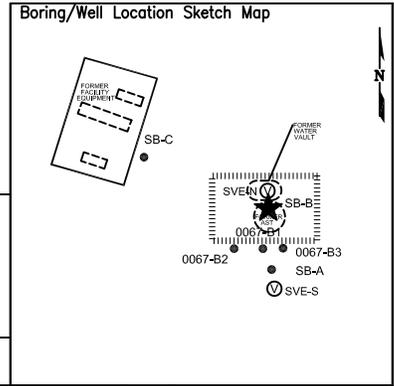
Page 1 of 2

Boring/Well No. SB-A	Total Depth 40'	Location Great Western Operating Company UPRR Meyer #1 SWSE Sec. 9, T2S, R63W, 6th PM Adams County, Colorado	
Project No./Name C021-031 / GWOC UPRR Meyer #1		Approved By	
Drilling Contractor/Driller Drill Pro		Geologist/Office Paul Henehan / Fremont Environmental, Inc.	
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5 direct push	Sampling Method direct push
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Start/Finish Date 06/22/2021	
Casing Mtrl./Dia.		Screen: Type . Mtrl. . Length . Dia. . Slot Size .	
Elevation of: (ft. above datum)		Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
		ML	Sandy silt, brown, dry, no stain, no odor				
5		ML	Sandy silt with small pebbles (fill?), dry, no stain, no odor				1
10		SM	Silty sand to 11' then silty fine to medium sand, moist, brown, no stain, no odor				2
15		SP	Fine to medium sand to 14' then sand and gravel, moist, brown, no stain, no odor				555
17		S&G	Sand and gravel to 19' then silty fine sand, brown to 19' then dark gray with moderate odor, dry				17
20		SM	Silty fine to medium sand, gray with strong odor, moist				8
							517



BORING/WELL CONSTRUCTION LOG



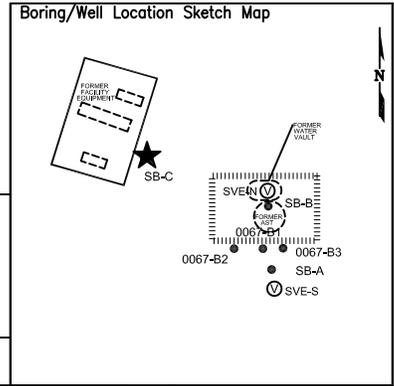
Page 1 of 2

Boring/Well No. SB-B	Total Depth 35'	Location Great Western Operating Company UPRR Meyer #1 SWSE Sec. 9, T2S, R63W, 6th PM Adams County, Colorado	
Project No./Name C021-031 / GWOC UPRR Meyer #1		Approved By	
Drilling Contractor/Driller Drill Pro		Geologist/Office Paul Henehan / Fremont Environmental, Inc.	
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5 direct push	Sampling Method direct push
		Start/Finish Date 06/22/2021	
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing
		Top of Screen	Bottom of Screen
		Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		ML	Firm sandy silt, moist, brown, low plasticity, no stain, no odor				
			Firm sandy silt, dry, brown, no stain, no odor				1
				Firm sandy silt to 10' then silty fine to medium sand, light gray, light odor			
10		SM					290
		SP	Medium to coarse sand, gray with strong odor moist, brown, no stain, no odor				1826
15							1910
			Medium to coarse sand to 18' then firm sandy silt to 21', then medium to coarse sand, gray with strong odor				2120
							2090
20		ML	Silty sand, light gray, strong odor				1835



BORING/WELL CONSTRUCTION LOG



Page 1 of 2

Boring/Well No. SB-C		Total Depth 35'	Location Great Western Operating Company UPRR Meyer #1 SWSE Sec. 9, T2S, R63W, 6th PM Adams County, Colorado			
Project No./Name C021-031 / GWOC UPRR Meyer #1			Drilling Contractor/Driller Drill Pro			
Geologist/Office Paul Henehan / Fremont Environmental, Inc.			Approved By			
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5 direct push	Sampling Method direct push	Start/Finish Date 06/22/2021		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		ML	Sandy silt, brown, moist, low plasticity, no stain, no odor				3
		SM	Silty fine to medium sand, brown, moist, no stain, no odor				3
10		SM	Silty fine to medium sand, brown, moist, no stain, no odor				3
		SM	Silty medium coarse sand, brown, moist, no stain odor				2
15		SM	Silty fine to medium sand, brown, moist, no stain, no odor				1
		SM	Silty fine to medium sand, brown, moist, no stain, no odor				1
20							5



BORING/WELL CONSTRUCTION LOG

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Boring/Well No. SB-C	Location Great Western Operating Company UPRR Meyer #1 SWSE Sec. 9, T2S, R63W, 6th PM Adams County, Colorado
Project No./Name CO21-031 / GWOC UPRR Meyer #1	

DEPTH (feet)	WELL CONSTRUCTION			LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
				GRAPHIC LOG	VISUAL DESCRIPTION				
25			SM	Silty fine to medium sand, brown, moist, no stain, no odor				0	
30			SM	Silty medium coarse sand, brown, moist, no stain, no odor				0	
35			SP	Silty medium coarse sand to 31' then fine to medium (beach sand), brown, moist, no stain no odor				0	
40				Fine to medium sand, refusal at 35' due to packing sand, brown, moist, no stain, no odor				0	
45				TD - 35' Backfill with bentonite				0	

BORING/WELL CONSTRUCTION LOG

Page 2 of 3

Boring/Well No. SVE - N	Location Great Western Operating Company UPRR Meyer #1 SWSE Sec. 9, T2S, R63W, 6th PM Adams County, Colorado
Project No./Name CO21-031 / GWOC UPRR Meyer #1	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
25							
30							
35							
40			Sand: tan plus gray, medium to very fine sand, moist, loose	3			1339
			- increasing gravel	11			
				11			
45				8			1480



BORING/WELL CONSTRUCTION LOG

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Boring/Well No. SVE - N	Location Great Western Operating Company UPRR Meyer #1 SWSE Sec. 9, T2S, R63W, 6th PM Adams County, Colorado
Project No./Name CO21-031 / GWOC UPRR Meyer #1	

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
				Sand: tan plus gray, medium to very fine sand, moist, loose, increasing gravel, continued	7			232.9
				Gravely-sand: gray plus white, coarse to very fine gravel, moist	13			104.9
50					17			90.2
					15			32.8
					7			
					17			
					15			
					7			
					13			
55				TD - 55'	16			
60								
65								
70								

#10-20
Silica
Sand

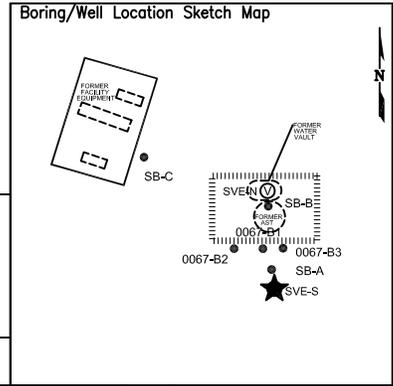
SP

SW

TD - 55'



BORING/WELL CONSTRUCTION LOG



Page 1 of 2

Boring/Well No. SVE - S		Total Depth 45'	Location Great Western Operating Company UPRR Meyer #1 SWSE Sec. 9, T2S, R63W, 6th PM Adams County, Colorado			
Project No./Name C021-031 / GWOC UPRR Meyer #1		Approved By				
Drilling Contractor/Driller Drill Pro		Geologist/Office Ethan Black / Fremont Environmental, Inc.				
Drilling Equipment/Method Geoprobe		Size/Type of Bit 2.5 direct push	Sampling Method direct push	Start/Finish Date 08/19/2021		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. PVC/1"	Screen: Type Slotted Mtrl. PVC Length 15' Dia. 1" Slot Size 0.010"			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 40px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);">Bentonite</div> <div style="border: 1px solid black; width: 20px; height: 40px; background-color: white;">Blank</div> </div>						
10	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 40px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px;">#10-20 Silica Sand</div> <div style="border: 1px solid black; width: 20px; height: 40px; background: repeating-linear-gradient(90deg, transparent, transparent 2px, black 2px, black 4px);">1" Screen</div> </div>						
15							
20							

APPENDIX B

LABORATORY DOCUMENTATION



June 30, 2021

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - GWOC - UPRR Meyer

Project Number - C021-031

Attached are your analytical results for GWOC - UPRR Meyer received by Origins Laboratory, Inc. June 23, 2021. This project is associated with Origins project number Y106547-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C021-031
Project: GWOC - UPRR Meyer

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-A 12FT	Y106547-01	Soil	June 22, 2021 0:00	06/23/2021 13:00
SB-A 22FT	Y106547-02	Soil	June 22, 2021 0:00	06/23/2021 13:00
SB-A 28FT	Y106547-03	Soil	June 22, 2021 0:00	06/23/2021 13:00
SB-A 36FT	Y106547-04	Soil	June 22, 2021 0:00	06/23/2021 13:00
SB-B 16FT	Y106547-05	Soil	June 22, 2021 0:00	06/23/2021 13:00
SB-B 26FT	Y106547-06	Soil	June 22, 2021 0:00	06/23/2021 13:00
SB-B 35FT	Y106547-07	Soil	June 22, 2021 0:00	06/23/2021 13:00
SB-C 20FT	Y106547-08	Soil	June 22, 2021 0:00	06/23/2021 13:00
SB-C 35FT	Y106547-09	Soil	June 22, 2021 0:00	06/23/2021 13:00
Vault 5FT	Y106547-10	Soil	June 22, 2021 0:00	06/23/2021 13:00
Background 1FT	Y106547-11	Soil	June 22, 2021 0:00	06/23/2021 13:00

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y106547 Client: Fremont
 Checklist Completed by: JB Client Project ID: Guest-Meyer UPRR
 Date/time completed: 6/23/21 Shipped Via: HS
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: N/A
 Airbill #: N/A
 Cooler Number/Temperature: 1 / 5.3 °C 1 °C 1 °C 1 °C (Describe)
 Thermometer ID: T053

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?		<input checked="" type="checkbox"/>		No sample fines
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?		<input checked="" type="checkbox"/>		second page not signed
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾if NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: Jm (Project Manager) Date/Time Reviewed: 6-24-21

Origins Laboratory, Inc.


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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SB-A 12FT
6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1050	50.0	mg/kg	1	B1F2306	KDK	06/23/2021	06/25/2021	
Residual Range Organics (C28-C40)	263	200	"	"	"	KDK	"	"	

Surrogate: *o*-Terphenyl 82.1 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0258	0.00200	mg/kg	1	B1F2305	KDK	"	06/24/2021	
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	0.00250	0.00200	"	"	"	KDK	"	"	
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	358	5.00	"	25	"	KDK	"	06/25/2021	
Xylenes, total	0.0138	0.00200	"	1	"	KDK	"	06/24/2021	

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "

Surrogate: Toluene-d8 89.4 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 197 % 70-130 " " " S-04

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SB-A 22FT
6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	2120	50.0	mg/kg	1	B1F2306	KDK	06/23/2021	06/25/2021	
Residual Range Organics (C28-C40)	311	200	"	"	"	KDK	"	"	

Surrogate: *o*-Terphenyl 101 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	26.0	5.00	mg/kg	2500	B1F2305	KDK	"	06/25/2021	
Naphthalene	3.57	0.250	"	25	"	KDK	"	06/24/2021	
1,3,5-Trimethylbenzene	46.1	0.500	"	250	"	KDK	"	06/25/2021	
Benzene	ND	0.0500	"	25	"	KDK	"	06/24/2021	R-01, U
Ethylbenzene	7.93	0.0500	"	"	"	KDK	"	"	
Toluene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Gasoline Range Hydrocarbons	982	500	"	2500	"	KDK	"	06/25/2021	
Xylenes, total	187	0.500	"	250	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.2 % 70-130 " " 06/24/2021
 Surrogate: Toluene-d8 92.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 192 % 70-130 " " " S-04

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SB-A 28FT
6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	941	50.0	mg/kg	1	B1F2306	KDK	06/23/2021	06/25/2021	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	80.0 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	15.0	0.500	mg/kg	250	B1F2313	KDK	06/23/2021	06/25/2021	
Naphthalene	4.60	0.250	"	25	"	KDK	"	06/24/2021	
1,3,5-Trimethylbenzene	5.50	0.0500	"	"	"	KDK	"	"	
Benzene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Ethylbenzene	0.810	0.0500	"	"	"	KDK	"	"	
Toluene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Gasoline Range Hydrocarbons	1070	50.0	"	250	"	KDK	"	06/25/2021	
Xylenes, total	13.5	0.0500	"	25	"	KDK	"	06/24/2021	

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	90.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	139 %	70-130			"	"	"	"	S-04

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SB-A 36FT
6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	191	50.0	mg/kg	1	B1F2306	KDK	06/23/2021	06/25/2021	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	90.5 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	4.72	0.0500	mg/kg	25	B1F2313	KDK	06/23/2021	06/30/2021	
Naphthalene	0.159	0.0100	"	1	"	KDK	"	06/28/2021	
1,3,5-Trimethylbenzene	0.386	0.00200	"	"	"	KDK	"	"	
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	0.0676	0.00200	"	"	"	KDK	"	"	
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	267	5.00	"	25	"	KDK	"	06/30/2021	
Xylenes, total	1.11	0.00200	"	1	"	KDK	"	06/28/2021	

Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	117 %	70-130			"	"	"	06/30/2021	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SB-B 16FT
6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	699	50.0	mg/kg	1	B1F2306	KDK	06/23/2021	06/25/2021	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 105 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	21.4	0.500	mg/kg	250	B1F2313	KDK	06/23/2021	06/28/2021	
Naphthalene	1.90	0.250	"	25	"	KDK	"	06/26/2021	
1,3,5-Trimethylbenzene	8.19	0.500	"	250	"	KDK	"	06/28/2021	
Benzene	ND	0.0500	"	25	"	KDK	"	06/26/2021	R-01, U
Ethylbenzene	5.69	0.0500	"	"	"	KDK	"	"	
Toluene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Gasoline Range Hydrocarbons	1190	50.0	"	250	"	KDK	"	06/28/2021	
Xylenes, total	78.4	0.500	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 95.7 % 70-130 " " 06/26/2021
 Surrogate: Toluene-d8 88.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " 06/28/2021

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SB-B 26FT
6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	180	50.0	mg/kg	1	B1F2306	KDK	06/23/2021	06/25/2021	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	79.2 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	3.63	0.0500	mg/kg	25	B1F2313	KDK	06/23/2021	06/26/2021	
Naphthalene	0.600	0.250	"	"	"	KDK	"	"	
1,3,5-Trimethylbenzene	1.32	0.0500	"	"	"	KDK	"	"	
Benzene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Ethylbenzene	0.356	0.0500	"	"	"	KDK	"	"	
Toluene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Gasoline Range Hydrocarbons	145	5.00	"	"	"	KDK	"	"	
Xylenes, total	5.68	0.0500	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SB-B 35FT

6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	935	50.0	mg/kg	1	B1F2306	KDK	06/23/2021	06/25/2021	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	112 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	30.6	0.500	mg/kg	250	B1F2313	KDK	06/23/2021	06/28/2021	
Naphthalene	2.61	0.250	"	25	"	KDK	"	06/26/2021	
1,3,5-Trimethylbenzene	11.4	0.500	"	250	"	KDK	"	06/28/2021	
Benzene	ND	0.0500	"	25	"	KDK	"	06/26/2021	R-01, U
Ethylbenzene	7.01	0.0500	"	"	"	KDK	"	"	
Toluene	0.128	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	1800	50.0	"	250	"	KDK	"	06/28/2021	
Xylenes, total	98.4	0.500	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130			"	"	"	06/26/2021	
Surrogate: Toluene-d8	87.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	06/28/2021	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SB-C 20FT
6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F2306	KDK	06/23/2021	06/25/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 94.8 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F2401	KDK	06/24/2021	06/28/2021	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.0 % 70-130 " " "
 Surrogate: Toluene-d8 96.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.0 % 70-130 " " "

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SB-C 35FT

6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F2306	KDK	06/23/2021	06/25/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: <i>o</i> -Terphenyl	93.3 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F2401	KDK	06/24/2021	06/26/2021	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Vault 5FT
6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.460	0.200	mg/L	1	B1F2409	JMA	06/24/2021	06/24/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F2306	KDK	06/23/2021	06/25/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: <i>o</i> -Terphenyl	85.9 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F2401	KDK	06/24/2021	06/26/2021	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	87.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130			"	"	"	"	

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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Vault 5FT

6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-10 (Soil)

Metals by Saturated Paste

Calcium	2.13		meq/L	1	[CALC]	CJM	06/24/2021	06/24/2021	
Magnesium	2.20		"	"	"	CJM	"	"	
Sodium	3.09		"	"	"	CJM	"	"	

pH in Soil by EPA 9045D

pH	8.07		pH Units	1	B1F2416	CJM	06/23/2021	06/24/2021	
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SAR by 20B Saturated Paste

SAR	2.10		SAR	1	B1F2417	CJM	06/24/2021	06/24/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.781	0.00500	mmhos/cm	1	B1F2414	CJM	06/24/2021	06/25/2021	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Background 1FT

6/22/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106547-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.516	0.199	mg/L	1	B1F2409	JMA	06/24/2021	06/24/2021
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Metals by Saturated Paste

Calcium	3.84		meq/L	"	[CALC]	CJM	06/24/2021	06/24/2021
Magnesium	1.11		"	"	"	CJM	"	"
Sodium	1.18		"	"	"	CJM	"	"

pH in Soil by EPA 9045D

pH	7.91		pH Units	1	B1F2416	CJM	06/23/2021	06/24/2021
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SAR by 20B Saturated Paste

SAR	0.747		SAR	1	B1F2417	CJM	06/24/2021	06/24/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.640	0.00500	mmhos/cm	1	B1F2414	CJM	06/24/2021	06/25/2021
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Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2305 - EPA 5030 (soil)

Blank (B1F2305-BLK1)

Prepared: 06/23/2021 Analyzed: 06/23/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	91.3		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	89.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.3		70-130			

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Paul Henehan
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2305 - EPA 5030 (soil)

LCS (B1F2305-BS1)

Prepared: 06/23/2021 Analyzed: 06/23/2021

1,2,4-Trimethylbenzene	0.0513	0.00200	mg/kg	0.0500		103	70-130			
Naphthalene	0.0441	0.0100	"	0.0500		88.3	70-130			
1,3,5-Trimethylbenzene	0.0510	0.00200	"	0.0500		102	70-130			
Benzene	0.0649	0.00200	"	0.0500		130	70-130			
Ethylbenzene	0.0541	0.00200	"	0.0500		108	70-130			
m,p-Xylene	0.110	0.00400	"	0.100		110	70-130			
o-Xylene	0.0513	0.00200	"	0.0500		103	70-130			
Toluene	0.0542	0.00200	"	0.0500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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Paul Henehan
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2305 - EPA 5030 (soil)

Matrix Spike (B1F2305-MS1)	Source: Y106537-01			Prepared: 06/23/2021 Analyzed: 06/23/2021						
1,2,4-Trimethylbenzene	0.0452	0.00200	mg/kg	0.0500	0.00120	87.9	70-130			
Naphthalene	0.0381	0.0100	"	0.0500	0.00304	70.1	70-130			
1,3,5-Trimethylbenzene	0.0455	0.00200	"	0.0500	0.00114	88.6	70-130			
Benzene	0.0630	0.00200	"	0.0500	ND	126	70-130			
Ethylbenzene	0.0488	0.00200	"	0.0500	ND	97.7	70-130			
m,p-Xylene	0.0995	0.00400	"	0.100	ND	99.5	70-130			
o-Xylene	0.0466	0.00200	"	0.0500	0.00132	90.6	70-130			
Toluene	0.0504	0.00200	"	0.0500	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.9	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2305 - EPA 5030 (soil)

Matrix Spike Dup (B1F2305-MSD1)	Source: Y106537-01			Prepared: 06/23/2021 Analyzed: 06/23/2021						
1,2,4-Trimethylbenzene	0.0539	0.00200	mg/kg	0.0500	0.00120	105	70-130	17.6	20	
Naphthalene	0.0447	0.0100	"	0.0500	0.00304	83.3	70-130	15.9	20	
1,3,5-Trimethylbenzene	0.0542	0.00200	"	0.0500	0.00114	106	70-130	17.6	20	
Benzene	0.0732	0.00200	"	0.0500	ND	146	70-130	14.9	20	QM-07
Ethylbenzene	0.0587	0.00200	"	0.0500	ND	117	70-130	18.4	20	
m,p-Xylene	0.119	0.00400	"	0.100	ND	119	70-130	17.7	20	
o-Xylene	0.0554	0.00200	"	0.0500	0.00132	108	70-130	17.3	20	
Toluene	0.0594	0.00200	"	0.0500	ND	119	70-130	16.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.1	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1F2306 - EPA 3550B										
Blank (B1F2306-BLK1)					Prepared: 06/23/2021 Analyzed: 06/23/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	50		"	50.0		99.7	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2306 - EPA 3550B

LCS (B1F2306-BS1)

Prepared: 06/23/2021 Analyzed: 06/23/2021

Diesel (C10-C28)	551	50.0	mg/kg	500		110	70-130			
Residual Range Organics (C28-C40)	600	200	"	500		120	70-130			
Surrogate: o-Terphenyl	64		"	50.0		129	50-150			

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Paul Henehan
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2306 - EPA 3550B

Matrix Spike (B1F2306-MS1)	Source: Y106537-01			Prepared: 06/23/2021 Analyzed: 06/23/2021						
Diesel (C10-C28)	549	50.0	mg/kg	500	ND	110	70-130			
Residual Range Organics (C28-C40)	549	200	"	500	47.5	100	70-130			
Surrogate: o-Terphenyl	51		"	50.0		103	50-150			

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Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2306 - EPA 3550B

Matrix Spike Dup (B1F2306-MSD1)	Source: Y106537-01			Prepared: 06/23/2021 Analyzed: 06/23/2021						
Diesel (C10-C28)	492	50.0	mg/kg	500	ND	98.4	70-130	10.9	35	
Residual Range Organics (C28-C40)	462	200	"	500	47.5	82.8	70-130	17.3	35	
Surrogate: o-Terphenyl	55		"	50.0		110	50-150			

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 Project: GWOC - UPRR Meyer

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1F2313 - EPA 5030 (soil)										
Blank (B1F2313-BLK1)										
					Prepared: 06/23/2021 Analyzed: 06/23/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.0	70-130			

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Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2313 - EPA 5030 (soil)

LCS (B1F2313-BS1)

Prepared: 06/23/2021 Analyzed: 06/23/2021

1,2,4-Trimethylbenzene	0.0478	0.00200	mg/kg	0.0500		95.7	70-130			
Naphthalene	0.0429	0.0100	"	0.0500		85.7	70-130			
1,3,5-Trimethylbenzene	0.0470	0.00200	"	0.0500		94.0	70-130			
Benzene	0.0583	0.00200	"	0.0500		117	70-130			
Ethylbenzene	0.0494	0.00200	"	0.0500		98.8	70-130			
m,p-Xylene	0.101	0.00400	"	0.100		101	70-130			
o-Xylene	0.0470	0.00200	"	0.0500		94.0	70-130			
Toluene	0.0486	0.00200	"	0.0500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2313 - EPA 5030 (soil)

Matrix Spike (B1F2313-MS1)	Source: Y106537-02			Prepared: 06/23/2021 Analyzed: 06/23/2021						
1,2,4-Trimethylbenzene	0.0617	0.00200	mg/kg	0.0500	0.00108	121	70-130			
Naphthalene	0.0494	0.0100	"	0.0500	0.00236	94.0	70-130			
1,3,5-Trimethylbenzene	0.0617	0.00200	"	0.0500	ND	123	70-130			
Benzene	0.0773	0.00200	"	0.0500	ND	155	70-130			QM-07
Ethylbenzene	0.0643	0.00200	"	0.0500	ND	129	70-130			
m,p-Xylene	0.132	0.00400	"	0.100	ND	132	70-130			QM-07
o-Xylene	0.0616	0.00200	"	0.0500	ND	123	70-130			
Toluene	0.0637	0.00200	"	0.0500	ND	127	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.3	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2313 - EPA 5030 (soil)

Matrix Spike Dup (B1F2313-MSD1)	Source: Y106537-02			Prepared: 06/23/2021 Analyzed: 06/23/2021						
1,2,4-Trimethylbenzene	0.0608	0.00200	mg/kg	0.0500	0.00108	119	70-130	1.54	20	
Naphthalene	0.0494	0.0100	"	0.0500	0.00236	94.1	70-130	0.0810	20	
1,3,5-Trimethylbenzene	0.0609	0.00200	"	0.0500	ND	122	70-130	1.40	20	
Benzene	0.0773	0.00200	"	0.0500	ND	155	70-130	0.0776	20	QM-07
Ethylbenzene	0.0647	0.00200	"	0.0500	ND	129	70-130	0.527	20	
m,p-Xylene	0.131	0.00400	"	0.100	ND	131	70-130	0.228	20	QM-07
o-Xylene	0.0614	0.00200	"	0.0500	ND	123	70-130	0.195	20	
Toluene	0.0638	0.00200	"	0.0500	ND	128	70-130	0.126	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.3	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1F2401 - EPA 5030 (soil)										
Blank (B1F2401-BLK1)										
					Prepared: 06/24/2021 Analyzed: 06/24/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

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 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2401 - EPA 5030 (soil)

LCS (B1F2401-BS1)

Prepared: 06/24/2021 Analyzed: 06/24/2021

1,2,4-Trimethylbenzene	0.0491	0.00200	mg/kg	0.0500		98.2	70-130			
Naphthalene	0.0476	0.0100	"	0.0500		95.3	70-130			
1,3,5-Trimethylbenzene	0.0489	0.00200	"	0.0500		97.8	70-130			
Benzene	0.0528	0.00200	"	0.0500		106	70-130			
Ethylbenzene	0.0481	0.00200	"	0.0500		96.2	70-130			
m,p-Xylene	0.0980	0.00400	"	0.100		98.0	70-130			
o-Xylene	0.0487	0.00200	"	0.0500		97.4	70-130			
Toluene	0.0474	0.00200	"	0.0500		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2401 - EPA 5030 (soil)

Matrix Spike (B1F2401-MS1)	Source: Y106558-01			Prepared: 06/24/2021 Analyzed: 06/26/2021						
1,2,4-Trimethylbenzene	0.0391	0.00200	mg/kg	0.0500	ND	78.3	70-130			
Naphthalene	0.0487	0.0100	"	0.0500	ND	97.4	70-130			
1,3,5-Trimethylbenzene	0.0371	0.00200	"	0.0500	ND	74.2	70-130			
Benzene	0.0495	0.00200	"	0.0500	ND	99.0	70-130			
Ethylbenzene	0.0371	0.00200	"	0.0500	ND	74.1	70-130			
m,p-Xylene	0.0759	0.00400	"	0.100	ND	75.9	70-130			
o-Xylene	0.0403	0.00200	"	0.0500	ND	80.7	70-130			
Toluene	0.0398	0.00200	"	0.0500	ND	79.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		87.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2401 - EPA 5030 (soil)

Matrix Spike Dup (B1F2401-MSD1)	Source: Y106558-01			Prepared: 06/24/2021 Analyzed: 06/26/2021						
1,2,4-Trimethylbenzene	0.0411	0.00200	mg/kg	0.0500	ND	82.1	70-130	4.79	20	
Naphthalene	0.0503	0.0100	"	0.0500	ND	101	70-130	3.27	20	
1,3,5-Trimethylbenzene	0.0402	0.00200	"	0.0500	ND	80.4	70-130	8.07	20	
Benzene	0.0547	0.00200	"	0.0500	ND	109	70-130	10.1	20	
Ethylbenzene	0.0408	0.00200	"	0.0500	ND	81.5	70-130	9.51	20	
m,p-Xylene	0.0823	0.00400	"	0.100	ND	82.3	70-130	8.09	20	
o-Xylene	0.0418	0.00200	"	0.0500	ND	83.7	70-130	3.65	20	
Toluene	0.0442	0.00200	"	0.0500	ND	88.4	70-130	10.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F2414 - NO PREP

Blank (B1F2414-BLK1)

Prepared: 06/24/2021 Analyzed: 06/25/2021

Specific Conductance (EC) 0.00380 0.00500 mmhos/cm

Duplicate (B1F2414-DUP1)

Source: Y106529-01

Prepared: 06/24/2021 Analyzed: 06/25/2021

Specific Conductance (EC) 2.18 0.00500 mmhos/cm 2.38 8.80 25

Batch B1F2416 - NO PREP

Duplicate (B1F2416-DUP1)

Source: Y106529-01

Prepared: 06/23/2021 Analyzed: 06/24/2021

pH 7.21 pH Units 7.22 0.139 25

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C021-031
Project: GWOC - UPRR Meyer

Notes and Definitions

- U Sample is Non-Detect.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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August 27, 2021

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - GWOC - UPRR Meyer

Project Number - C021-031

Attached are your analytical results for GWOC - UPRR Meyer received by Origins Laboratory, Inc. August 19, 2021. This project is associated with Origins project number Y108431-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C021-031
Project: GWOC - UPRR Meyer

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SVE-N 55ft	Y108431-01	Soil	August 19, 2021 0:00	08/19/2021 20:00
SVE-N 45ft	Y108431-02	Soil	August 19, 2021 0:00	08/19/2021 20:00
SVE-S 45ft	Y108431-03	Soil	August 19, 2021 0:00	08/19/2021 20:00
SVE-S 35ft	Y108431-04	Soil	August 19, 2021 0:00	08/19/2021 20:00

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y108431 Client: Fremont
 Checklist Completed by: SG Client Project ID: BWOC - Meyer
 Date/time completed: 8/20/11 Shipped Via: HA
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 5.4 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>No sample times</u>
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: JM (Project Manager) Date/Time Reviewed: 8-23-11

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SVE-N 55ft

8/19/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108431-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2016	DJL	08/20/2021	08/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.1 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2015	KDK	08/20/2021	08/20/2021	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SVE-N 45ft
8/19/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108431-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2304	DJL	08/23/2021	08/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: <i>o</i> -Terphenyl	91.4 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2015	KDK	08/20/2021	08/20/2021	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SVE-S 45ft

8/19/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108431-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2304	DJL	08/23/2021	08/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: <i>o</i> -Terphenyl	89.4 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2015	KDK	08/20/2021	08/20/2021	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

SVE-S 35ft
8/19/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108431-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	153	25.0	mg/kg	1	B1H2304	DJL	08/23/2021	08/20/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: o-Terphenyl	83.2 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	5.44	0.0500	mg/kg	25	B1H2015	KDK	08/20/2021	08/20/2021	
Naphthalene	0.302	0.0100	"	1	"	KDK	"	08/21/2021	
1,3,5-Trimethylbenzene	2.13	0.0500	"	25	"	KDK	"	08/20/2021	
Benzene	ND	0.00200	"	1	"	KDK	"	08/21/2021	U
Ethylbenzene	0.249	0.00200	"	"	"	KDK	"	"	
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	327	5.00	"	25	"	KDK	"	08/20/2021	
Xylenes, total	8.80	0.0500	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2015 - EPA 5030 (soil)

Blank (B1H2015-BLK1)

Prepared: 08/20/2021 Analyzed: 08/20/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.2		70-130			

Origins Laboratory, Inc.



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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2015 - EPA 5030 (soil)

LCS (B1H2015-BS1)

Prepared: 08/20/2021 Analyzed: 08/20/2021

1,2,4-Trimethylbenzene	0.0530	0.00200	mg/kg	0.0500		106	70-130			
Naphthalene	0.0499	0.0100	"	0.0500		99.8	70-130			
1,3,5-Trimethylbenzene	0.0508	0.00200	"	0.0500		102	70-130			
Benzene	0.0530	0.00200	"	0.0500		106	70-130			
Ethylbenzene	0.0504	0.00200	"	0.0500		101	70-130			
m,p-Xylene	0.104	0.00400	"	0.100		104	70-130			
o-Xylene	0.0505	0.00200	"	0.0500		101	70-130			
Toluene	0.0507	0.00200	"	0.0500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2015 - EPA 5030 (soil)

Matrix Spike (B1H2015-MS1)	Source: Y108431-01			Prepared: 08/20/2021 Analyzed: 08/20/2021						
1,2,4-Trimethylbenzene	0.0485	0.00200	mg/kg	0.0500	ND	97.1	70-130			
Naphthalene	0.0449	0.0100	"	0.0500	ND	89.8	70-130			
1,3,5-Trimethylbenzene	0.0489	0.00200	"	0.0500	ND	97.7	70-130			
Benzene	0.0542	0.00200	"	0.0500	ND	108	70-130			
Ethylbenzene	0.0487	0.00200	"	0.0500	ND	97.4	70-130			
m,p-Xylene	0.101	0.00400	"	0.100	ND	101	70-130			
o-Xylene	0.0498	0.00200	"	0.0500	ND	99.5	70-130			
Toluene	0.0499	0.00200	"	0.0500	ND	99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C021-031
 Project: GWOC - UPRR Meyer

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2015 - EPA 5030 (soil)

Matrix Spike Dup (B1H2015-MSD1)	Source: Y108431-01			Prepared: 08/20/2021 Analyzed: 08/20/2021						
1,2,4-Trimethylbenzene	0.0583	0.00200	mg/kg	0.0500	ND	117	70-130	18.2	20	
Naphthalene	0.0542	0.0100	"	0.0500	ND	108	70-130	18.7	20	
1,3,5-Trimethylbenzene	0.0594	0.00200	"	0.0500	ND	119	70-130	19.4	20	
Benzene	0.0646	0.00200	"	0.0500	ND	129	70-130	17.5	20	
Ethylbenzene	0.0590	0.00200	"	0.0500	ND	118	70-130	19.2	20	
m,p-Xylene	0.121	0.00400	"	0.100	ND	121	70-130	18.4	20	
o-Xylene	0.0594	0.00200	"	0.0500	ND	119	70-130	17.6	20	
Toluene	0.0598	0.00200	"	0.0500	ND	120	70-130	18.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H2016 - EPA 3550B										
Blank (B1H2016-BLK1)										
					Prepared: 08/20/2021 Analyzed: 08/20/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	25.0		86.8	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H2016 - EPA 3550B										
LCS (B1H2016-BS1)					Prepared: 08/20/2021 Analyzed: 08/20/2021					
Diesel (C10-C28)	884	50.0	mg/kg	1000		88.4	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2016 - EPA 3550B

Matrix Spike (B1H2016-MS1)	Source: Y108431-01			Prepared: 08/20/2021 Analyzed: 08/20/2021						
Diesel (C10-C28)	856	50.0	mg/kg	1000	ND	85.6	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	47		"	50.0		93.6	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H2016 - EPA 3550B										
Matrix Spike Dup (B1H2016-MSD1)					Source: Y108431-01					Prepared: 08/20/2021 Analyzed: 08/20/2021
Diesel (C10-C28)	868	50.0	mg/kg	1000	ND	86.8	70-130	1.31	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	1.77	35	
Surrogate: o-Terphenyl	48		"	50.0		96.4	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H2304 - EPA 3550B										
Blank (B1H2304-BLK1)										
					Prepared: 08/23/2021 Analyzed: 08/23/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	25.0		101	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2304 - EPA 3550B

LCS (B1H2304-BS1)

Prepared: 08/23/2021 Analyzed: 08/23/2021

Diesel (C10-C28)	954	50.0	mg/kg	1000		95.4	70-130			
Residual Range Organics (C28-C40)	1230	200	"	1000		123	70-130			
Surrogate: o-Terphenyl	58		"	50.0		115	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2304 - EPA 3550B

Matrix Spike (B1H2304-MS1)	Source: Y108446-01			Prepared: 08/23/2021 Analyzed: 08/23/2021						
Diesel (C10-C28)	867	50.0	mg/kg	1000	ND	86.7	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	49		"	50.0		98.9	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H2304 - EPA 3550B										
Matrix Spike Dup (B1H2304-MSD1)					Source: Y108446-01					Prepared: 08/23/2021 Analyzed: 08/23/2021
Diesel (C10-C28)	838	50.0	mg/kg	1000	ND	83.8	70-130	3.50	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	4.14	35	
Surrogate: o-Terphenyl	49		"	50.0		97.4	50-150			

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Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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