

FREMONT ENVIRONMENTAL INC.

February 22, 2023

Mr. Jason Davidson
PDC Energy Inc.
4000 Burlington Ave.
Evans, CO 80620

Subject: **Site Investigation Report**
Schmunk EF Offsite Tank Battery #31
SWNE Sec 31, T7N, R65W
Weld County, Colorado
Fremont Project No. C022-010
Facility #436119, Remediation #22766

Dear Mr. Davidson:

Enclosed please find a copy of the above referenced Site Investigation Report for the Schmunk Tank Battery in Weld County, Colorado. The enclosed report describes site investigation and sampling efforts to assess soil and groundwater impacts 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

PDC ENERGY INC.

SCHMUNK EF OFFSITE TANK BATTERY #31

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-010

REMEDICATION #22766

Prepared by:

**Fremont Environmental Inc.
1759 Redwing Lane
Broomfield, CO 80020
(303) 956-8714**

February 22, 2023

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SITE INVESTIGATION REPORT
PDC ENERGY INC.
SCHMUNK EF OFFSITE TANK BATTERY #31
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-010
REMEDICATION #22766

1.0 INTRODUCTION

The purpose of this document is to present soil and groundwater quality data collected during a site investigation at the PDC Energy Inc. (PDC Energy) Schmunk EF Offsite Tank Battery #31 site in Weld County, Colorado. Impacted soil and groundwater were identified at this location as a result of a water drain line piping failure. Fourteen monitoring wells (MW-1 to MW-14) were installed during this investigation.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Schmunk Tank Battery site is located approximately one mile northeast of Eaton, Colorado in Weld County as shown on Figure 1. The site is located in an agricultural area approximately 1.5 miles northeast of the intersection of Fifth Street and Highway 85. The location is further described as the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 31, Township 7N, Range 65W.

2.2 Site History

Soil impacts were identified at the facility following the failure of a water drain valve on an aboveground storage tank (AST) on February 23, 2022. The site's excavation area consisted of the soil immediately beneath and adjacent to the facility's water vaults and ASTs. Approximately 1,010 cubic yards of impacted soil were removed and transported to the North Weld County landfill in April 2022.

Since groundwater impacts were observed during the excavation work, a site investigation was required to determine the magnitude and extent of these impacts.

3.0 SITE INVESTIGATION ACTIVITIES

3.1 Soil Borings/Monitoring Wells

A site investigation was conducted at the facility on December 1, 2022 and February 1, 2023. During this investigation, 13 soil borings were advanced utilizing a direct push Geoprobe rig and one boring (MW-13) was advanced with a hand auger inside the secondary containment. Each of these borings was completed as a 1-inch diameter monitoring well. These monitoring wells were used to delineate the extent of soil and groundwater impacts at the site. The locations of the monitoring wells are illustrated on the Figure 2.

As shown on the logs in Appendix A, the subsurface generally consists of silty sand and sandy silt to a depth of approximately 10 to 12 feet, which is underlain by siltstone to 15 feet. It is not clear that the siltstone is present beneath the entire facility since the siltstone was only encountered in MW-14. Groundwater is present across the site at a depth of approximately 8 to 10 feet. Geologic cross sections for the site are presented on Figure 4.

The monitoring wells were constructed with 10 feet sections of well screen to intersect the water table and completed at the ground surface with flush-mounted well vaults. Soil samples from each of the borings were evaluated in the field for the presence of hydrocarbon vapor using a photoionization detector (PID). Logs of the monitoring wells are presented in Appendix A.

A soil sample from the vadose zone in each of the borings was sent to Origins Laboratories, Inc. in Denver, Colorado for the analyses of benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene, trimethylbenzenes and total petroleum hydrocarbons-gasoline range organics (TPH-GRO) by EPA method 8260, and methylnaphthalenes, TPH-diesel range organics (TPH-DRO) and TPH-residual range organics (TPH-ORO) by EPA method 8015. Polycyclic aromatic hydrocarbons (PAHs) analyses were also conducted on each soil sample.

The results of these analyses are presented on Figure 5 and summarized in Tables 1 and 2 while the laboratory's report is provided in Appendix B. The laboratory data indicate that all soil samples were less than their respective COGCC Table 915-1 Protection of Groundwater Soil Screening Levels (GW SSLs) except for three samples (MW-6, MW-8 and MW-14).

3.2 Groundwater Monitoring

Groundwater levels were measured in the monitoring wells on December 2, 2022. These data are summarized in Table 3.

Water table contours inferred from the December 2022 data are illustrated on Figure 6. Based on these data, groundwater is inferred to flow to the southwest. The water table gradient was calculated at approximately 0.018 feet per foot (ft/ft) for the December 2022 data.

3.3 Groundwater Sampling and Analysis

Groundwater samples were collected from most of the initial monitoring wells on December 2, 2022; however, MW-5 and MW-7 were slow to make water so they were sampled on December 8, 2022. Monitoring well MW-14, which was installed on February

14, 2022, was also slow to make water; it was sampled on February 9, 2023. The groundwater chemistry data are shown on Figure 7 and summarized in Tables 3 and 4.

Figure 7 illustrates the dissolved benzene impacts at the site; MW-7, MW-8, MW-9 and MW-14 exceed the COGCC Table 915-1 limit for benzene. The initial sampling of MW-7 on December 2, 2022 indicated that the benzene concentration was 49 ug/L; when this well was sampled on December 8, 2022, the benzene concentration was <1.0 ug/L. Further, MW-14, which is on the western edge of the facility, has a benzene concentration of 68 ug/L indicating that additional monitoring well(s) will be required in the cultivated area to the west. These wells will be installed after further consultation with the landowner. Copies of the laboratory's reports are presented in Appendix B.

4.0 DISCUSSION

A site investigation was conducted at the Schmunk tank battery site between December 2022 and February 2023. Subsurface impacts are present on the facility as demonstrated by the borings/wells. Point of compliance (POC) wells have not been established to the southwest of the groundwater impacts. Therefore, additional monitoring wells will be required; these wells will be installed after further discussion with the landowner.

PDC will monitor the groundwater at this site on a quarterly basis to evaluate the petroleum and inorganic concentrations relative to the COGCC's Table 915-1 requirements.

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.**



2/22/2023

Date _____

Paul V. Henehan, P.E.

Senior Consultant

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
PDC ENERGY INC.
SCHMUNK PAD, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-010

Sample ID	Sample Date	Depth (ft)	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)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	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		
MW-1 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-2 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-3 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-4 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-5 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-6 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-6 8 Ft	12/1/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-7 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-7 8 Ft	12/1/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-8 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-8 9 Ft	12/1/2022	9	2.1	2.1	1.7	10	4.7	0.83	0.47	290	1100	110
MW-9 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-10 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-11 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-12 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-13 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-14 8 Ft	2/1/2023	8	<0.0020	<0.0050	<0.0050	0.025	<0.0050	0.070	<0.0038	3.3	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
PDC ENERGY INC.
SCHMUNK PAD, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-010

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
MW-1 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-2 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-3 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-4 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-5 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-6 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-6 8 Ft	12/1/2022	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00636	<0.00500	<0.00500	0.0191	<0.00500	<0.00500	0.0355	0.0524
MW-7 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-7 8 Ft	12/1/2022	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-8 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00540	<0.00500
MW-8 9 Ft	12/1/2022	9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0226	<0.00500	<0.00500	0.0839	<0.00500	0.00527	0.688	1.70
MW-9 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-10 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-11 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-12 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-13 6 Ft	12/1/2022	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-14 8 Ft	2/1/2023	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0119	<0.00500	<0.00500	0.0497	0.0284

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
PDC ENERGY INC.
SCHMUNK PAD
FREMONT PROJECT NO. C022-010

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
COGCC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
MW-1	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	98.44	7.25	91.19	NP
MW-2	12/2/2022	<1.0	<1.0	4.2	<1.0	7.8	12	3.4	98.07	7.25	90.82	NP
MW-3	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	97.60	7.00	90.60	NP
MW-4	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	97.46	7.61	89.85	NP
MW-5	12/8/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	96.74	13.96	82.78	NP
MW-6	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	1.3	<1.0	96.65	7.22	89.43	NP
MW-7	12/2/2022	49	<1.0	6.1	29	2.3	14	3.6	95.76	12.68	83.08	NP
	12/8/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	1.1		NM	NM	NP
MW-8	12/2/2022	330	570	91	480	15	89	29	96.8	9.45	87.35	NP
MW-9	12/2/2022	61	<1.0	<1.0	19	3.1	2.1	<1.0	96.74	9.53	87.21	NP
MW-10	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	96.44	9.93	86.51	NP
MW-11	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	97.56	8.43	89.13	NP
MW-12	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	98.66	7.60	91.06	NP
MW-13	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.00	9.40	90.60	NP
MW-14	2/9/2023	68	4.8	9.9	42	1.9	12	4.1	95.33	NM	NM	NP

Bold face values exceed the COGCC limits

Red highlighted 915-1 Limits indicate the referenced groundwater screening level

NP - No measurable LNAPL

NA - Not Analyzed

TABLE 4
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
PDC ENERGY INC.
SCHMUNK PAD, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-010

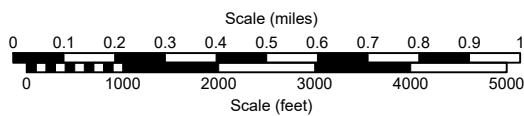
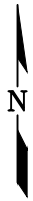
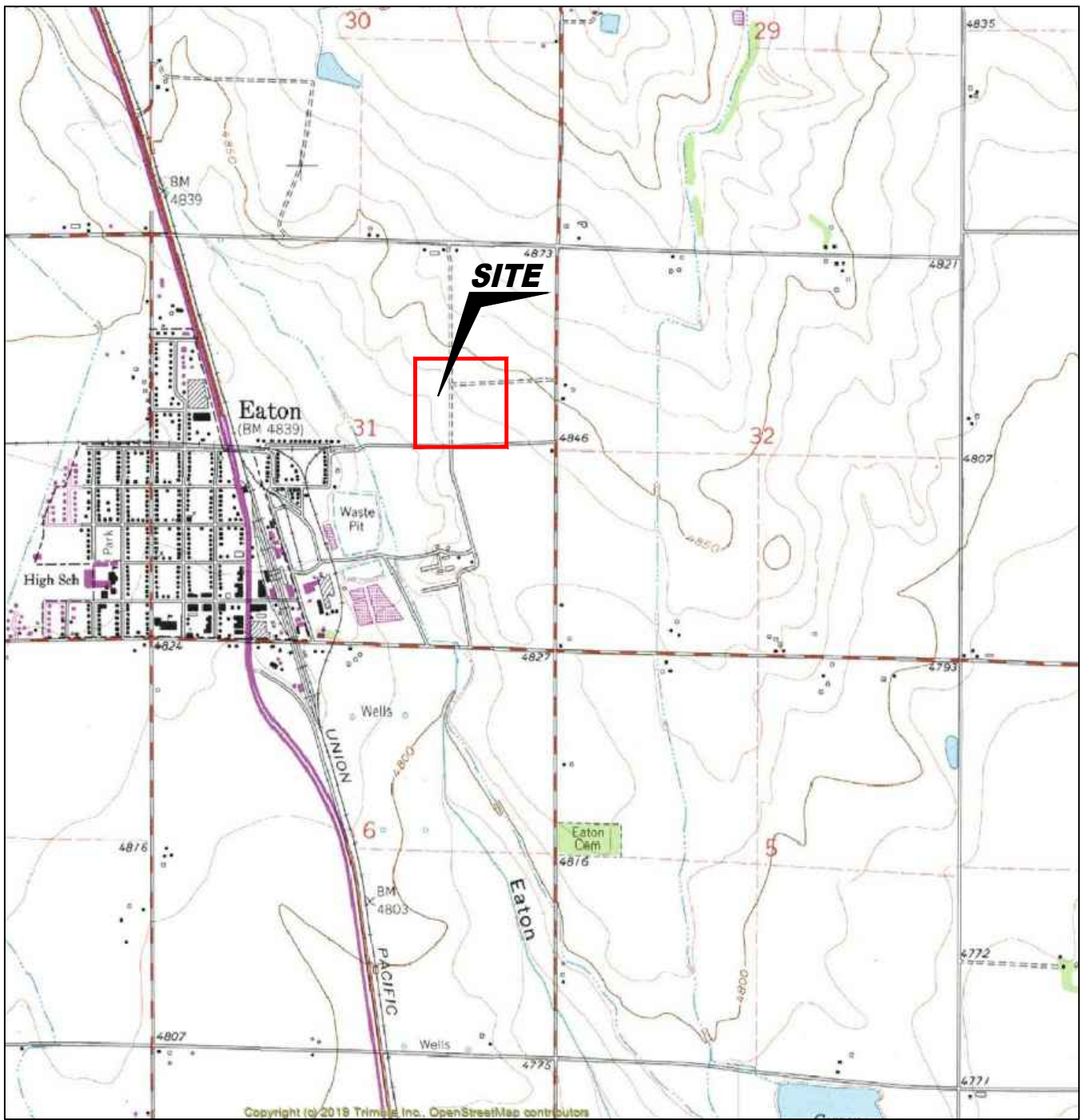
Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
COGCC Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
Site Specific Background		2180	94.0	1770
MW-1	12/2/2022	2180	94.0	1770
MW-2	12/2/2022	2150	103	1860
MW-3	12/2/2022	2110	98.4	1870
MW-4	12/2/2022	2140	100	1940
MW-5	12/8/2022	2140	29.2	554
MW-6	12/2/2022	2170	110	1840
MW-7	12/8/2022	2120	95.6	1670
MW-8	12/2/2022	2070	115	1950
MW-9	12/2/2022	2330	109	2090
MW-10	12/2/2022	3640	107	3450
MW-11	12/2/2022	2550	126	2250
MW-12	12/2/2022	2140	109	1840
MW-13	12/2/2022	2140	121	1870
MW-14	2/9/2023	4240	31.2	213

Bold face values exceed the COGCC limits

Yellow highlighted 915-1 Limits indicate the referenced groundwater screening level

MW-1 is the upgradient/bvkground well

FIGURES



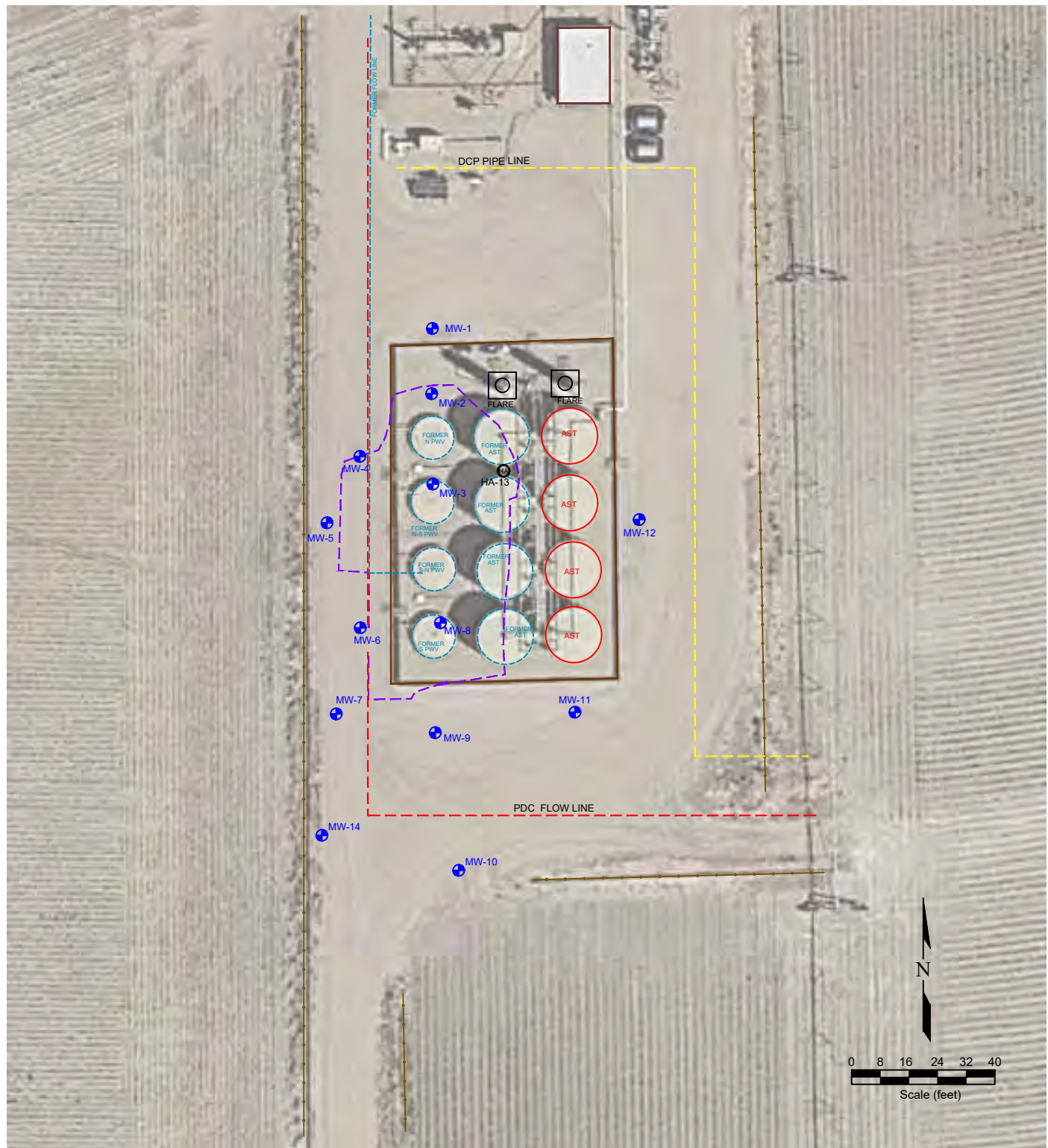
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

PDC Energy, Inc. ~ Schmunk EF Offsite Tank Battery #31
SWNE Sec. 31, T7N, R65W, 6th PM
 Weld County, Colorado
 40.534297°, -104.701619°

Project # C022-010	Facility # 436119	Remediation # 22766
Date 2/21/23	Reviewed by PH	Filename 22010T





LEGEND

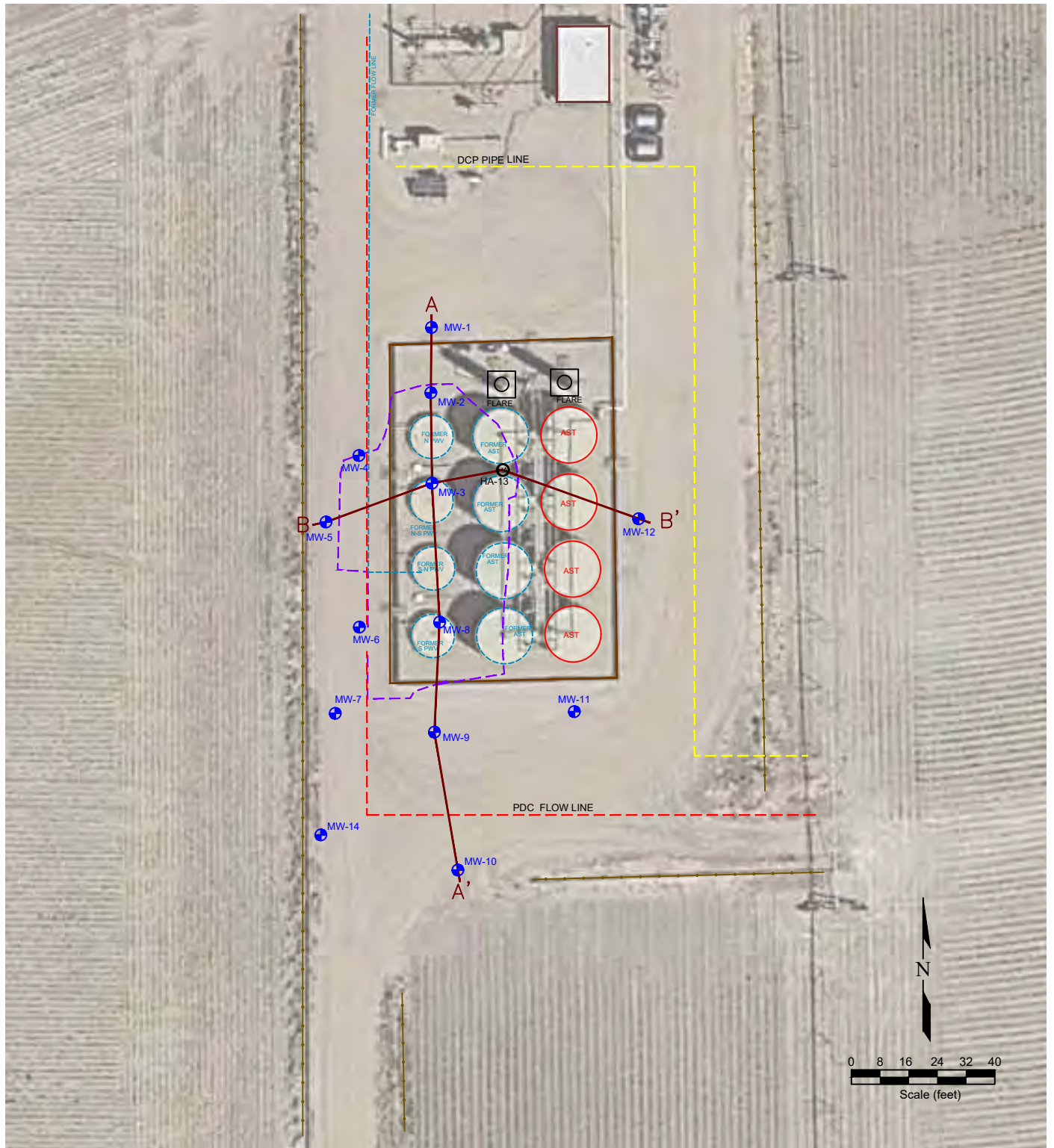
MONITORING WELL	ABOVE GROUND STORAGE TANK	FORMER FACILITY	CONTAINMENT WALL
HAND AUGERED WELLS	FORMER BUILDING	FORMER FACILITY	EXTENT OF EXCAVATION
	BUILDING	FORMER FACILITY	CONTAINMENT WALL
		FORMER FACILITY	DCP PIPELINE

**Figure 2
SITE MAP**

**PDC Energy, Inc. ~ Schmunk EF Offsite Tank Battery #31
SWNE Sec. 31, T7N, R65W, 6th PM
Weld County, Colorado
40.534297°, -104.701619°**

Project No. C022-010	Facility # 436119	Remediation # 22766
Date 2/21/23	Reviewed By PH	Filename 22010QP





LEGEND

- MONITORING WELL
- ABOVE GROUND STORAGE TANK
- ⊙ HAND AUGURED WELLS
- FORMER FACILITY
- BUILDING
- CONTAINMENT WALL
- EXTENT OF EXCAVATION
- CONTAINMENT WALL
- PDC FLOW LINE
- DCP PIPELINE
- CROSS SECTION CUT LINE

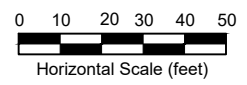
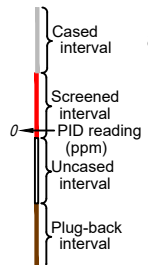
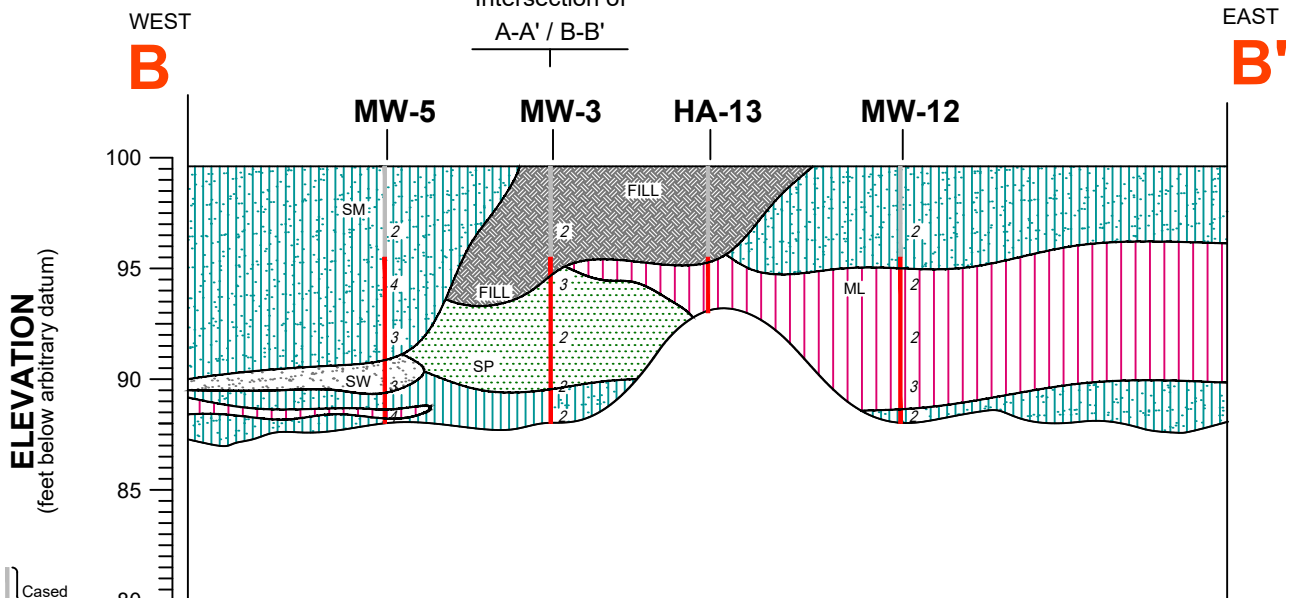
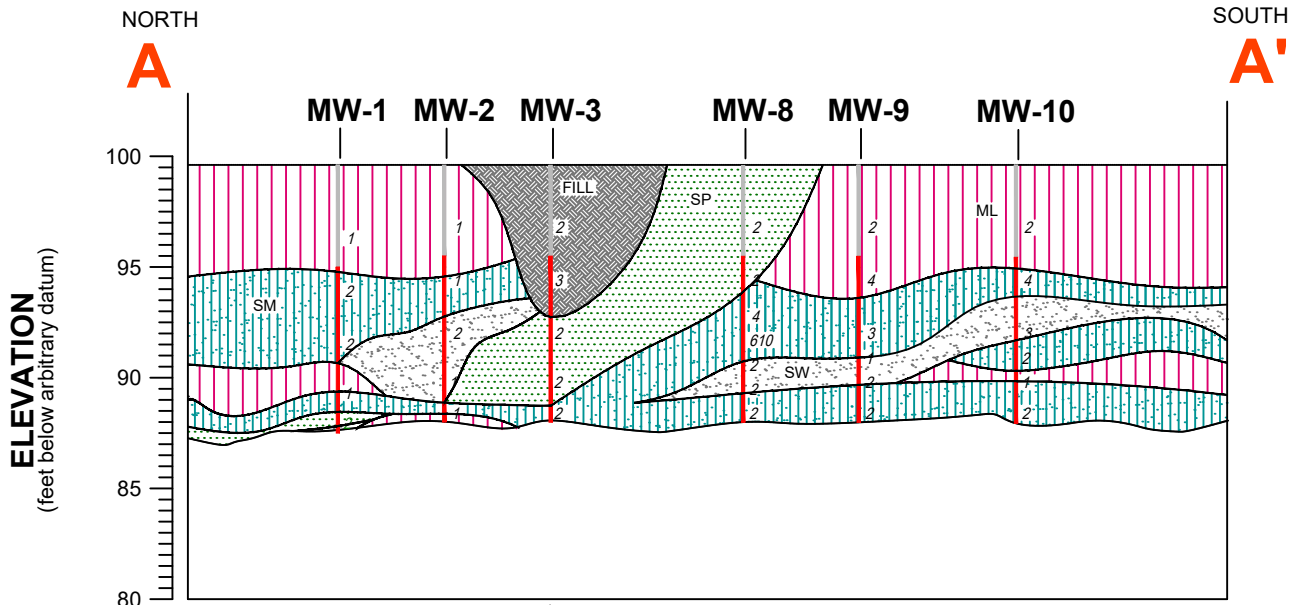
Figure 3

CROSS SECTION MAP

PDC Energy, Inc. ~ Schmunk EF Offsite Tank Battery #31
SWNE Sec. 31, T7N, R65W, 6th PM
 Weld County, Colorado
 40.534297°, -104.701619°

Project No. C022-010	Facility # 436119	Remediation # 22766
Date 2/21/23	Reviewed By PH	Filename 22010QP





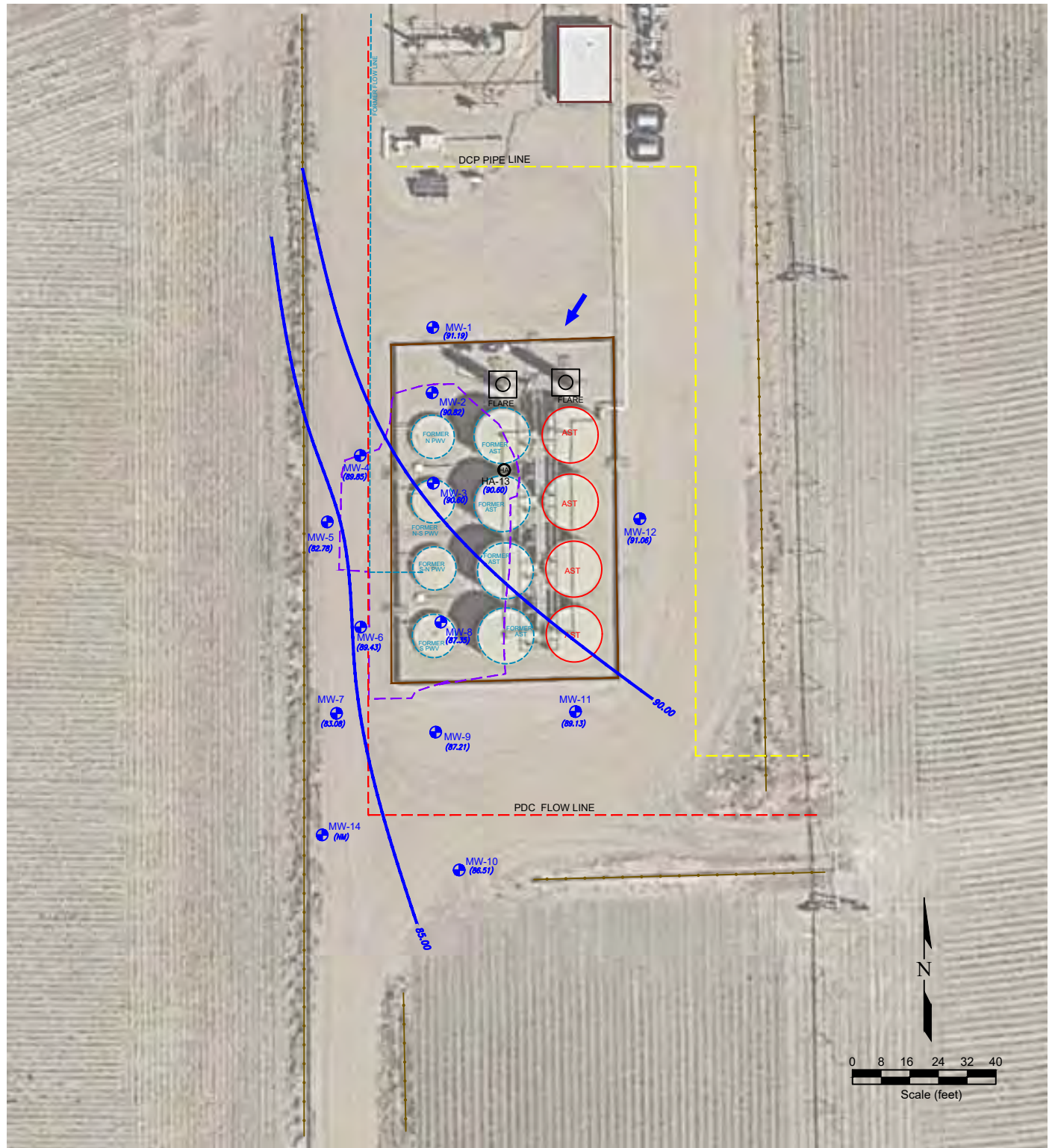
LEGEND

Clay, high plasticity	Sand, well-graded	FILL
Clay, low plasticity	Sand, poorly-graded	Asphalt
Silt, high plasticity	Sand, clayey	Concrete
Silt, low plasticity	Sand silty	Basin fill
Clay, silty high plasticity	Gravel, well-graded	Claystone
Clay, silty, low plasticity	Gravel, poorly-graded	Siltstone
Silt, clayey high plasticity	Gravel, clayey	Shale
Silt, clayey low plasticity	Gravel, silty	Sandstone

Figure 4
CROSS SECTION A-A' and B-B'

PDC Energy, Inc. ~ Schmunk EF Offsite Tank Battery #31
SWNE Sec. 31, T7N, R65W, 6th PM
 Weld County, Colorado
 40.534297°, -104.701619°

Project No. C022-010	Facility # 436119	Remediation # 22766
Date 2/21/23	Reviewed by PH	Filename 22010X



LEGEND

- ⊕ MONITORING WELL
- ⊙ ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- BUILDING BUILDING
- CONTAINMENT WALL
- EXTENT OF EXCAVATION
- CONTAINMENT WALL
- PDC FLOW LINE
- DCP PIPELINE
- (NW) NOT MEASURED
- (90.00) GROUND WATER ELEVATION (ft above arbitrary datum)
- 90.00 WATER TABLE CONTOUR
- GROUND WATER FLOW DIRECTION

Figure 6
GROUNDWATER CONTOUR MAP
 December 2, 2022

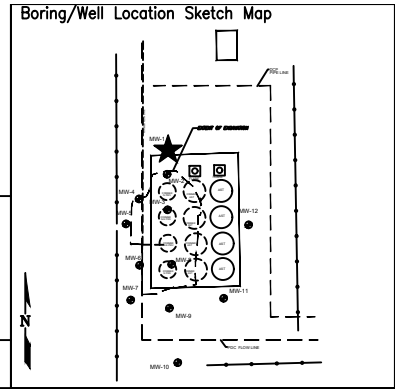
PDC Energy, Inc. ~ Schmunk EF Offsite Tank Battery #31
SWNE Sec. 31, T7N, R65W, 6th PM
 Weld County, Colorado
 40.534297°, -104.701619°

Project No. C022-010	Facility # 436119	Remediation # 22766	
Date 2/21/23	Reviewed By PH	Filename 22010QP	

APPENDIX A
BORING LOGS



BORING/WELL CONSTRUCTION LOG



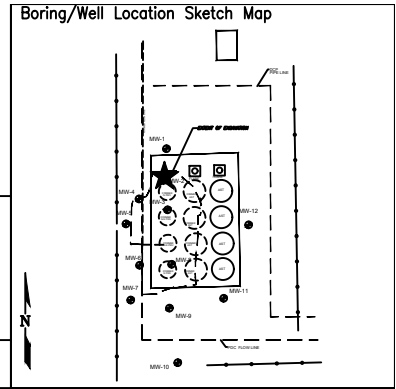
Page 1 of 1

Boring/Well No. MW-1		Total Depth 15'	Location PDC Energy, Inc. Schmunk EF Offsite Tank Battery #31 SWNE Sec. 31, T7N, R65W, 6th PM Weld County, Colorado			
Project No./Name C022-010 / Noble Schmunk EF Offsite Tank Battery #31			Drilling Contractor/Driller DrillPro			
Geologist/Office Paul Henehan / Fremont Environmental, Inc.			Approved By			
Drilling Equipment/Method Direct push		Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 12/01/2022		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. PVC/1"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 2" 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			Sandy silt, firm, brown, moist, low plasticity, no stain, no odor				1
			Sandy silt, firm, brown, moist, low plasticity, no stain, no odor, wet at 7'				
10			- lens of silty sand at 7'				2
			Sandy silt, firm to 11.5' then silty fine sand, lens of silty sand at 11'				
15			Silty medium to coarse sand to 13', then firm very firm fine sand, wet, no stain, no odor				1
			TD 15'				
20							



BORING/WELL CONSTRUCTION LOG



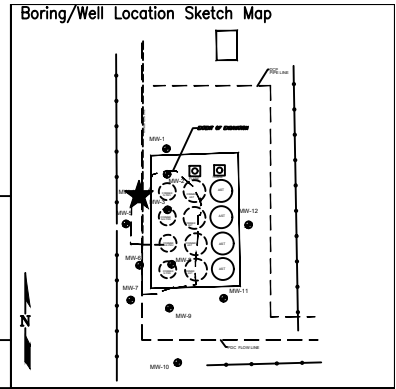
Page 1 of 1

Boring/Well No. MW-2		Total Depth 14'	Location PDC Energy, Inc. Schmunk EF Offsite Tank Battery #31 SWNE Sec. 31, T7N, R65W, 6th PM Weld County, Colorado			
Project No./Name C022-010 / Noble Schmunk EF Offsite Tank Battery #31			Drilling Contractor/Driller DrillPro			
Geologist/Office Paul Henehan / Fremont Environmental, Inc.			Approved By			
Drilling Equipment/Method Direct push		Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 12/01/2022		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. PVC/1"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 2" 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		ML	Fill (Silty Sand With Small Rocks)				1
			Wet, Brown, No Stain, No odor				1
		SW	Silty, Fine, Sand, Wet, No stain, No odor				2
		SM	Sandy Silt				1
15		ML	Soft, Silty Sand, Wet, Brown, No stain, No Odor				1
			TD 14'				
20							



BORING/WELL CONSTRUCTION LOG



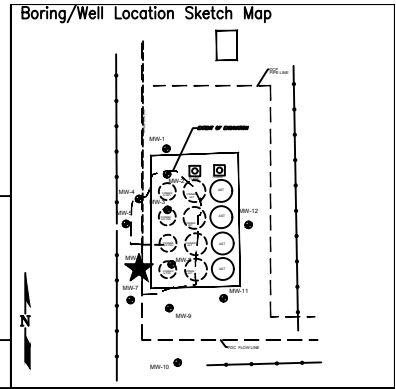
Page 1 of 1

Boring/Well No. MW-4		Total Depth 14'	Location PDC Energy, Inc. Schmunk EF Offsite Tank Battery #31 SWNE Sec. 31, T7N, R65W, 6th PM Weld County, Colorado			
Project No./Name C022-010 / Noble Schmunk EF Offsite Tank Battery #31		Drilling Contractor/Driller DrillPro				
Geologist/Office Paul Henehan / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Direct push		Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 12/01/2022		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. PVC/1"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 2" 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				
0	Bentonite	ML	Fill to 3', then Silty Sand, Brown, Moist, No Stain, No Odor				
5	#10-20 Silica Sand	SM	Sandy Silt, Brown, Low Plasticity, Moist, Wet at 7.5', Brown, No Stain, No Odor			3	
10	Screen	SM	Sandy Silt, Sand Lens at 9.5', at 10.5' turns to Fine Silty Sand, Brown, Moist, (wet in lenes), No Stain, No Odor			2	
15		SM	Sandy Silt with Moderate Plasticity to 13', then Very Firm Sandy, Silt, Brown, wet, No Stain, No Odor			2	
20			TD 14'				



BORING/WELL CONSTRUCTION LOG



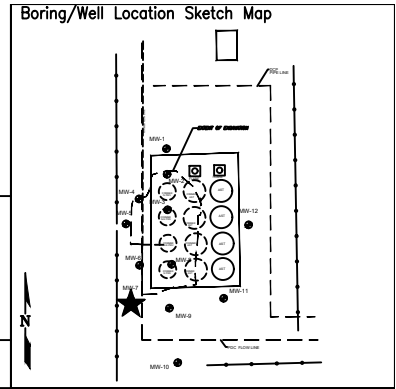
Page 1 of 1

Boring/Well No. MW-6		Total Depth 14'	Location PDC Energy, Inc. Schmunk EF Offsite Tank Battery #31 SWNE Sec. 31, T7N, R65W, 6th PM Weld County, Colorado			
Project No./Name C022-010 / Noble Schmunk EF Offsite Tank Battery #31		Drilling Contractor/Driller DrillPro				
Geologist/Office Paul Henehan / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Direct push		Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 12/01/2022		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. PVC/1"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 2" 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				
	Bentonite	FILL	Fill				
5	#10-20 Silica Sand	SM	Sandy Silt, Brown, Firm to 7.5', Then Silty Medium to Coarse Sand, Gray Color With Light Odor at 7.5'			2	
	Screen	SP	Sandy Silt, Firm, Moist, No Stain, No Odor			3	
10		SM	Sandy Silt, Very Firm, Moist, Brown, No Stain, No Odor			36	
		SM	Sandy Silt, Very Firm, Moist, Brown, No Stain, No Odor			3	
15		SM	Sandy Silt, Very Firm, Moist, Brown, No Stain, No Odor			9	
			TD 14'			1	
20							



BORING/WELL CONSTRUCTION LOG



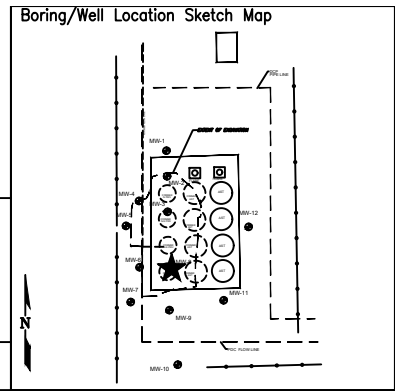
Page 1 of 1

Boring/Well No. MW-7		Total Depth 14'	Location PDC Energy, Inc. Schmunk EF Offsite Tank Battery #31 SWNE Sec. 31, T7N, R65W, 6th PM Weld County, Colorado			
Project No./Name C022-010 / Noble Schmunk EF Offsite Tank Battery #31		Drilling Contractor/Driller DrillPro				
Geologist/Office Paul Henehan / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Direct push		Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 12/01/2022		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. PVC/1"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 2" 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				
	Bentonite	ML	Silty Sand, Brown, Moist, No Stain, No Odor				
5	#10-20 Silica Sand	Screen	Silty Sand Brown, Wet at 7.5', No Stain, No Odor			2	
			Silty Sand to 9; Then Very Firm Sandy Silt, Brown, Moist, No Stain, No Odor			3	
10		SM				104	
		SM	Very Firm Sandy Silt, Brown, Moist, No Stain, No Odor			4	
						2	
15						2	
			TD 14'				
20							



BORING/WELL CONSTRUCTION LOG



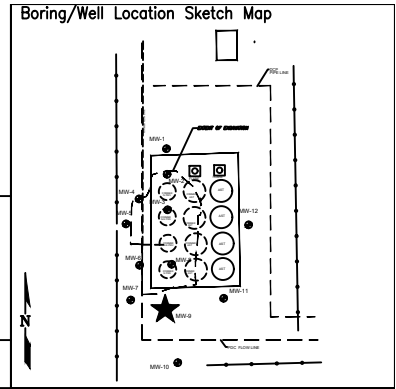
Page 1 of 1

Boring/Well No. MW-8		Total Depth 14'	Location PDC Energy, Inc. Schmunk EF Offsite Tank Battery #31 SWNE Sec. 31, T7N, R65W, 6th PM Weld County, Colorado			
Project No./Name C022-010 / Noble Schmunk EF Offsite Tank Battery #31		Drilling Contractor/Driller DrillPro				
Geologist/Office Paul Henehan / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Direct push		Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 12/01/2022		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. PVC/1"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 2" 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				
	Bentonite		SP	Fill Medium To Coarse Sand With Small Rocks				
5	#10-20 Silica Sand	1" Screen		Fill Medium To Coarse Sand With Small Rocks, Wet at 7.5'			2	2
10			ML SW SM SM	Sandy Silt 9'; Then Silty Fine Sand to 11', Then Firm Sandy Silt, Light Gray Streaks 8' To 9', Light Odor			4	610
15				Sandy Silt, Very Firm, Moist, No Stain, No Odor			2	2
20				TD 14'			2	2



BORING/WELL CONSTRUCTION LOG



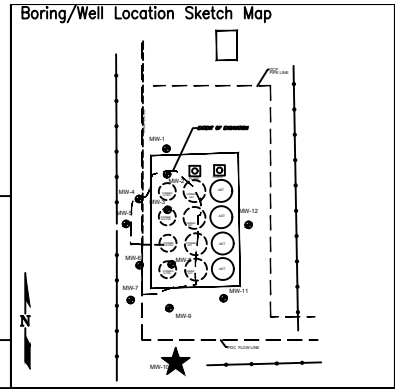
Page 1 of 1

Boring/Well No. MW-9		Total Depth 14'	Location PDC Energy, Inc. Schmunk EF Offsite Tank Battery #31 SWNE Sec. 31, T7N, R65W, 6th PM Weld County, Colorado			
Project No./Name C022-010 / Noble Schmunk EF Offsite Tank Battery #31		Drilling Contractor/Driller DrillPro				
Geologist/Office Paul Henehan / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Direct push		Size/Type of Bit 2.5" direct push	Sampling Method direct push		Start/Finish Date 12/01/2022	
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. PVC/1"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 2" 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				
	Bentonite	ML	Sandy Silt, Brown, Moist, No Stain, No Odor				
5	#10-20 Silica Sand	SM	Silty Sand To 7.5', Then Sandy Silt, Wet at 7', Brown, No Stain, No Odor			2	4
	Screen		Sandy Silt, Firm, Moist, No Stain, No Odor			3	
10		SM	Sandy Silt, Very Firm, Moist, No Stain, No Odor			2	1
15			TD 14'			2	
20							



BORING/WELL CONSTRUCTION LOG



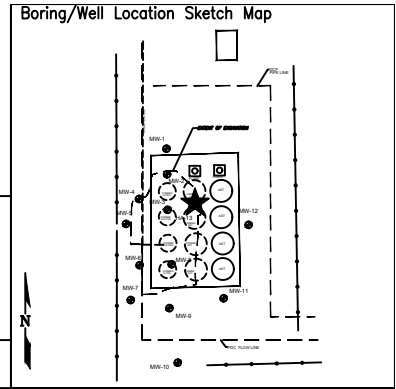
Page 1 of 1

Boring/Well No. MW-10		Total Depth 14'	Location PDC Energy, Inc. Schmunk EF Offsite Tank Battery #31 SWNE Sec. 31, T7N, R65W, 6th PM Weld County, Colorado			
Project No./Name C022-010 / Noble Schmunk EF Offsite Tank Battery #31		Drilling Contractor/Driller DrillPro		Geologist/Office Paul Henehan / Fremont Environmental, Inc.		Approved By
Drilling Equipment/Method Direct push			Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 12/01/2022	
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Casing Mtrl./Dia. PVC/1"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 2" 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		ML	Firm Sandy Silt, Brown, Moist, No Stain, No Odor					
		SM	Silty Sand, Brown, Moist, Finer Sand 7' to 8'; Wet at 7.5'. No Stain, No Odor			2		
		SW					4	
		SM	Silly Fine Sand to 11', then Firm Sandy Silt, Moist, No Stain, No Odor			3		
		ML				2		
10		SM	Very Firm Sandy Silt			1		
		SM				2		
15		TD 14'					2	
20								



BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. MW-13 / HA-13		Total Depth 9'	Location PDC Energy, Inc. Schmunk EF Offsite Tank Battery #31 SWNE Sec. 31, T7N, R65W, 6th PM Weld County, Colorado			
Project No./Name C022-010 / Noble Schmunk EF Offsite Tank Battery #31		Drilling Contractor/Driller DrillPro				
Geologist/Office Paul Henehan / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Direct push		Size/Type of Bit 2.5" direct push	Sampling Method direct push	Start/Finish Date 12/01/2022		
Well Installed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Mtrl./Dia. PVC/1"	Screen: Type Slotted Mtrl. PVC Length 10' Dia. 2" 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; padding: 2px;">Bentonite</div> <div style="border: 1px solid black; padding: 2px;">#10-20 Silica Sand</div> </div>	<div style="border: 1px solid black; padding: 2px;">FILL</div> <div style="border: 1px solid black; padding: 2px;">ML</div>	Backfill Material to 8', then Silty Sand that sloughed quickly so cant keep hole open with hand auger, grabbed soil sample at 6'				
10							
15							
20							

APPENDIX B

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 07, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Schmunk Pad
Work Order #2212023

Enclosed are the results of analyses for samples received by Summit Scientific on 12/01/22 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 6ft	2212023-01	Soil	12/01/22 00:00	12/01/22 17:30
MW-2 6ft	2212023-02	Soil	12/01/22 00:00	12/01/22 17:30
MW-3 6ft	2212023-03	Soil	12/01/22 00:00	12/01/22 17:30
MW-4 6ft	2212023-04	Soil	12/01/22 00:00	12/01/22 17:30
MW-5 6ft	2212023-05	Soil	12/01/22 00:00	12/01/22 17:30
MW-6 6ft	2212023-06	Soil	12/01/22 00:00	12/01/22 17:30
MW-6 8ft	2212023-07	Soil	12/01/22 00:00	12/01/22 17:30
MW-7 6ft	2212023-08	Soil	12/01/22 00:00	12/01/22 17:30
MW-7 8ft	2212023-09	Soil	12/01/22 00:00	12/01/22 17:30
MW-8 6ft	2212023-10	Soil	12/01/22 00:00	12/01/22 17:30
MW-8 9ft	2212023-11	Soil	12/01/22 00:00	12/01/22 17:30
MW-9 6ft	2212023-12	Soil	12/01/22 00:00	12/01/22 17:30
MW-10 6ft	2212023-13	Soil	12/01/22 00:00	12/01/22 17:30
MW-11 6ft	2212023-14	Soil	12/01/22 00:00	12/01/22 17:30
MW-12 6ft	2212023-15	Soil	12/01/22 00:00	12/01/22 17:30
MW-13 6ft	2212023-16	Soil	12/01/22 00:00	12/01/22 17:30

Summit Scientific

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.

Summit Scientific



2212023.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 2

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail:

City/State/Zip:

Phone:

Project Name: PDC - SCHMUNK PAD

Sampler Name: HENEHAN

Project Number: CO22-010

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions				
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	915-1 metals	Arsenic	BTEXN + TMBs		TDS, Cl, Su			
1	MW-1 6 FT	12/1/22		2			✓			✓				✓	✓	✓									
2	MW-2 6 FT	↓																							
3	MW-3 6 FT																								
4	MW-4 6 FT																								
5	MW-5 6 FT																								
6	MW-6 6 FT																								
7	MW-6 8 FT				↓																				
8	MW-7 6 FT				2																				
9	MW-7 8 FT				1																				
10	MW-8 6 FT				2																				
Relinquished by:			Date/Time:		Received by:		Date/Time:		Turn Around Time (Check)				Notes:												
[Signature]		12/1/22 1730		[Signature]		12/22 1730		Same Day — 72 hours — 24 hours — <u>Standard</u> ✓ 48 hours —																	
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:																	
								Temperature Upon Receipt: <u>8.9</u> Samples Intact: <u>Yes</u> No																	

Summit Scientific

S₂

2212023.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 2 of 2

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail:

City/State/Zip:

Phone:

Project Name: PDC-SCHMUNK

Sampler Name: HENEHAN

Project Number: C022-010

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions					
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	915-1 metals	Arsenic	BTEXN + TMBs	TDS, Cl, Su					
1	MW-8 9 FT	12/1/22		1			✓			✓				✓	✓	✓										
2	MW-9 6 FT	↓		2																						
3	MW-10 6 FT			2																						
4	MW-11 6 FT			2																						
5	MW-12 6 FT			2																						
6	MW-13 6 FT			2											✓	✓	✓									
7																										
8																										
9																										
10																										

Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/1/22 1730</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/22 1730</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> <u>Standard</u> <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>8.8</u> Samples Intact: <u>Yes</u> No <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

2/2
Sample Receipt Checklist

S2 Work Order# 22/2023

Client: Fremont Client Project ID: POC Schmitt

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #:

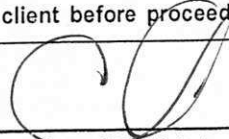
Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) 8.8 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.


Custodian Printed Name

12.1.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-1 6ft
2212023-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0413	103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.4	107 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-1 6ft
2212023-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0189	56.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0231	69.4 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-2 6ft
2212023-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.6	109 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-2 6ft
2212023-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0173	51.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.7 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-3 6ft
2212023-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0411	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.8	118 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-3 6ft
2212023-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0246	73.8 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-4 6ft
2212023-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0414	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.0	112 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-4 6ft
2212023-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0190	56.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.7 %	40-150		"	"	"	"	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-5 6ft
2212023-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.7	109 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-5 6ft
2212023-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0253	75.9 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-6 6ft
2212023-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0414	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.4	107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-6 6ft
2212023-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.6 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-6 8ft
2212023-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0412	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0506	127 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.8	110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-6 8ft
2212023-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00636	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0191	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0355	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0524	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0255	76.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0285	85.4 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-7 6ft
2212023-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0412	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.4	115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-7 6ft
2212023-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	55.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	64.0 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-7 8ft
2212023-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0413	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.6	116 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-7 8ft
2212023-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	63.9 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-8 6ft
2212023-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.8	110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad
 Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-8 6ft
2212023-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.00540	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0209	62.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0274	82.3 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-8 9ft
2212023-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2.1	0.0020	mg/kg	1	BFL0066	12/02/22	12/05/22	EPA 8260B	E
Toluene	2.1	0.50	"	100	"	"	"	"	
Ethylbenzene	1.7	0.50	"	"	"	"	"	"	
Xylenes (total)	10	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.7	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.83	0.50	"	"	"	"	"	"	
Naphthalene	0.47	0.0038	"	1	"	"	12/03/22	"	
Gasoline Range Hydrocarbons	290	50	"	100	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0891	223 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8	0.0366	91.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.162	406 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1100	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	110	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.2	121 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-8 9ft
2212023-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0226	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0839	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00527	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.688	0.125	"	25	"	"	12/06/22	"	
2-Methylnaphthalene	1.70	0.125	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	47.9 %	40-150		"	"	12/06/22	"	
Surrogate: Fluoranthene-d10	0.0215	64.6 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-9 6ft
2212023-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0440	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.4	107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-9 6ft
2212023-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	62.3 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-10 6ft
2212023-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.6	117 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-10 6ft
2212023-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0254	76.2 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-11 6ft
2212023-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0426	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.7	102 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-11 6ft
2212023-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.5 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-12 6ft
2212023-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.1	105 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-12 6ft
2212023-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0197	59.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0258	77.3 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

MW-13 6ft
2212023-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0066	12/02/22	12/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0068	12/02/22	12/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.1	113 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

MW-13 6ft
2212023-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0097	12/05/22	12/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0263	79.0 %	40-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFL0066 - EPA 5030 Soil MS

Blank (BFL0066-BLK1)

Prepared: 12/02/22 Analyzed: 12/03/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.6	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

LCS (BFL0066-BS1)

Prepared: 12/02/22 Analyzed: 12/03/22

Benzene	0.129	0.0020	mg/kg	0.125		103	70-130			
Toluene	0.128	0.0050	"	0.125		102	70-130			
Ethylbenzene	0.133	0.0050	"	0.125		107	70-130			
m,p-Xylene	0.260	0.010	"	0.250		104	70-130			
o-Xylene	0.127	0.0050	"	0.125		102	70-130			
1,2,4-Trimethylbenzene	0.133	0.0050	"	0.125		107	70-130			
1,3,5-Trimethylbenzene	0.139	0.0050	"	0.125		111	70-130			
Naphthalene	0.111	0.0038	"	0.125		88.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0393		"	0.0400		98.3	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		99.9	50-150			

Matrix Spike (BFL0066-MS1)

Source: 2212023-01

Prepared: 12/02/22 Analyzed: 12/03/22

Benzene	0.126	0.0020	mg/kg	0.125	ND	100	70-130			
Toluene	0.126	0.0050	"	0.125	ND	101	70-130			
Ethylbenzene	0.133	0.0050	"	0.125	ND	107	70-130			
m,p-Xylene	0.259	0.010	"	0.250	ND	104	70-130			
o-Xylene	0.127	0.0050	"	0.125	ND	102	70-130			
1,2,4-Trimethylbenzene	0.134	0.0050	"	0.125	ND	107	70-130			
1,3,5-Trimethylbenzene	0.140	0.0050	"	0.125	ND	112	70-130			
Naphthalene	0.118	0.0038	"	0.125	ND	94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0408		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch BFL0066 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0066-MSD1)	Source: 2212023-01			Prepared: 12/02/22 Analyzed: 12/03/22						
Benzene	0.130	0.0020	mg/kg	0.125	ND	104	70-130	3.52	30	
Toluene	0.128	0.0050	"	0.125	ND	103	70-130	2.06	30	
Ethylbenzene	0.133	0.0050	"	0.125	ND	106	70-130	0.0902	30	
m,p-Xylene	0.261	0.010	"	0.250	ND	104	70-130	0.704	30	
o-Xylene	0.129	0.0050	"	0.125	ND	103	70-130	1.01	30	
1,2,4-Trimethylbenzene	0.136	0.0050	"	0.125	ND	109	70-130	1.80	30	
1,3,5-Trimethylbenzene	0.141	0.0050	"	0.125	ND	113	70-130	0.940	30	
Naphthalene	0.121	0.0038	"	0.125	ND	96.7	70-130	2.49	30	
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad
 Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/07/22 13:07

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFL0068 - EPA 3550A

Blank (BFL0068-BLK1)

Prepared: 12/02/22 Analyzed: 12/04/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.8		"	12.5		110		30-150			

LCS (BFL0068-BS1)

Prepared: 12/02/22 Analyzed: 12/04/22

C10-C28 (DRO)	472	50	mg/kg	500		94.4		70-130			
Surrogate: <i>o</i> -Terphenyl	13.6		"	12.5		109		30-150			

Matrix Spike (BFL0068-MS1)

Source: 2212023-01

Prepared: 12/02/22 Analyzed: 12/04/22

C10-C28 (DRO)	466	50	mg/kg	500	ND	93.2		70-130			
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		107		30-150			

Matrix Spike Dup (BFL0068-MSD1)

Source: 2212023-01

Prepared: 12/02/22 Analyzed: 12/04/22

C10-C28 (DRO)	479	50	mg/kg	500	ND	95.7		70-130	2.64	20	
Surrogate: <i>o</i> -Terphenyl	13.7		"	12.5		110		30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFL0097 - EPA 5030 Soil MS

Blank (BFL0097-BLK1)

Prepared & Analyzed: 12/05/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0326</i>		<i>"</i>	<i>0.0333</i>		<i>97.7</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0304</i>		<i>"</i>	<i>0.0333</i>		<i>91.3</i>		<i>40-150</i>		

LCS (BFL0097-BS1)

Prepared & Analyzed: 12/05/22

Acenaphthene	0.0302	0.00500	mg/kg	0.0333		90.5		31-137		
Anthracene	0.0299	0.00500	"	0.0333		89.8		30-120		
Benzo (a) anthracene	0.0277	0.00500	"	0.0333		83.2		30-120		
Benzo (a) pyrene	0.0295	0.00500	"	0.0333		88.6		30-120		
Benzo (b) fluoranthene	0.0303	0.00500	"	0.0333		90.9		30-120		
Benzo (k) fluoranthene	0.0331	0.00500	"	0.0333		99.2		30-120		
Chrysene	0.0341	0.00500	"	0.0333		102		30-120		
Dibenz (a,h) anthracene	0.0300	0.00500	"	0.0333		89.9		30-120		
Fluoranthene	0.0300	0.00500	"	0.0333		90.0		30-120		
Fluorene	0.0306	0.00500	"	0.0333		91.8		30-120		
Indeno (1,2,3-cd) pyrene	0.0326	0.00500	"	0.0333		97.8		30-120		
Pyrene	0.0377	0.00500	"	0.0333		113		35-142		
1-Methylnaphthalene	0.0269	0.00500	"	0.0333		80.6		35-142		
2-Methylnaphthalene	0.0387	0.00500	"	0.0333		116		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0247</i>		<i>"</i>	<i>0.0333</i>		<i>74.1</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0292</i>		<i>"</i>	<i>0.0333</i>		<i>87.7</i>		<i>40-150</i>		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFL0097 - EPA 5030 Soil MS

Matrix Spike (BFL0097-MS1)		Source: 2212023-01			Prepared & Analyzed: 12/05/22						
Acenaphthene	0.0193	0.00500	mg/kg	0.0333	ND	57.9	31-137				
Anthracene	0.0202	0.00500	"	0.0333	ND	60.6	30-120				
Benzo (a) anthracene	0.0215	0.00500	"	0.0333	ND	64.4	30-120				
Benzo (a) pyrene	0.0187	0.00500	"	0.0333	ND	56.1	30-120				
Benzo (b) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120				
Benzo (k) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.1	30-120				
Chrysene	0.0209	0.00500	"	0.0333	ND	62.8	30-120				
Dibenz (a,h) anthracene	0.0182	0.00500	"	0.0333	ND	54.7	30-120				
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.8	30-120				
Fluorene	0.0196	0.00500	"	0.0333	ND	58.8	30-120				
Indeno (1,2,3-cd) pyrene	0.0196	0.00500	"	0.0333	ND	58.7	30-120				
Pyrene	0.0217	0.00500	"	0.0333	ND	65.1	35-142				
1-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	15-130				
2-Methylnaphthalene	0.0268	0.00500	"	0.0333	ND	80.4	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0172</i>		<i>"</i>	<i>0.0333</i>		<i>51.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0208</i>		<i>"</i>	<i>0.0333</i>		<i>62.4</i>	<i>40-150</i>				

Matrix Spike Dup (BFL0097-MSD1)		Source: 2212023-01			Prepared & Analyzed: 12/05/22						
Acenaphthene	0.0189	0.00500	mg/kg	0.0333	ND	56.8	31-137	1.86	30		
Anthracene	0.0205	0.00500	"	0.0333	ND	61.4	30-120	1.31	30		
Benzo (a) anthracene	0.0215	0.00500	"	0.0333	ND	64.6	30-120	0.222	30		
Benzo (a) pyrene	0.0188	0.00500	"	0.0333	ND	56.4	30-120	0.420	30		
Benzo (b) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.1	30-120	2.82	30		
Benzo (k) fluoranthene	0.0169	0.00500	"	0.0333	ND	50.8	30-120	1.30	30		
Chrysene	0.0205	0.00500	"	0.0333	ND	61.4	30-120	2.24	30		
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333	ND	55.2	30-120	0.913	30		
Fluoranthene	0.0193	0.00500	"	0.0333	ND	58.0	30-120	0.299	30		
Fluorene	0.0195	0.00500	"	0.0333	ND	58.4	30-120	0.802	30		
Indeno (1,2,3-cd) pyrene	0.0201	0.00500	"	0.0333	ND	60.2	30-120	2.50	30		
Pyrene	0.0212	0.00500	"	0.0333	ND	63.7	35-142	2.21	30		
1-Methylnaphthalene	0.0179	0.00500	"	0.0333	ND	53.6	15-130	1.23	50		
2-Methylnaphthalene	0.0278	0.00500	"	0.0333	ND	83.3	15-130	3.46	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0171</i>		<i>"</i>	<i>0.0333</i>		<i>51.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0209</i>		<i>"</i>	<i>0.0333</i>		<i>62.7</i>	<i>40-150</i>				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/07/22 13:07

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 12, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Schmunk Pad
Work Order #2212092

Enclosed are the results of analyses for samples received by Summit Scientific on 12/05/22 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2212092-01	Water	12/02/22 00:00	12/05/22 17:00
MW-2	2212092-02	Water	12/02/22 00:00	12/05/22 17:00
MW-3	2212092-03	Water	12/02/22 00:00	12/05/22 17:00
MW-4	2212092-04	Water	12/02/22 00:00	12/05/22 17:00
MW-6	2212092-05	Water	12/02/22 00:00	12/05/22 17:00
MW-7	2212092-06	Water	12/02/22 00:00	12/05/22 17:00
MW-8	2212092-07	Water	12/02/22 00:00	12/05/22 17:00
MW-9	2212092-08	Water	12/02/22 00:00	12/05/22 17:00
MW-10	2212092-09	Water	12/02/22 00:00	12/05/22 17:00
MW-11	2212092-10	Water	12/02/22 00:00	12/05/22 17:00
MW-12	2212092-11	Water	12/02/22 00:00	12/05/22 17:00
MW-13	2212092-12	Water	12/02/22 00:00	12/05/22 17:00

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2212092.1

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 2

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail:

City/State/Zip:

Phone:

Project Name: PDC-SCHMUNK PAD

Sampler Name: HENEHAN

Project Number: C022-010

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested								Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	915-1 metals		Arsenic	BTEXN + TMBs
1	MW-1	12/2/22		3	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2	MW-2			3																	
3	MW-3			3																	
4	MW-4			3																	
5	MW-6			3																	
6	MW-7			3																	
7	MW-8			3																	
8	MW-9			3																	
9	MW-10			3																	
10	MW-11			3																	
Relinquished by:		Date/Time:		Received by:		Date/Time:		Turn Around Time (Check)				Notes:									
[Signature]		12/5/22 1700		[Signature]		12/5/22 1700		Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>													
Relinquished by:		Date/Time:		Received by:		Date/Time:		24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>													
Relinquished by:		Date/Time:		Received by:		Date/Time:		48 hours <input type="checkbox"/>													
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:													
								Temperature Upon Receipt: 9.1													
								Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No													

Summit Scientific

2212092.2



4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Client: Fremont Environmental Inc. Project Manager: Paul Henehan
 Address: E-Mail:
 City/State/Zip:
 Phone: Project Name: PDC - SCHWUNK
 Sampler Name: HENEHAN Project Number: COZZ-010

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	9/5-1 metals	Arsenic	BTEXN + TMBs		TDS, Cl, Su
1	MW-12	12/2/22		3	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1 - cond E-method res phthalate
2	MW-13	12/2/22		3	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
Relinquished by: <u>MJ/KE</u>		Date/Time: <u>12/5/22 1700</u>		Received by: <u>[Signature]</u>		Date/Time: <u>12/5/22 1700</u>		Turn Around Time (Check)				Notes:										
								Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>														
								24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>														
								48 hours <input type="checkbox"/>														
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:														
								Temperature Upon Receipt: <u>9.1</u>														
								Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No														

S₂

5/2

Sample Receipt Checklist

S2 Work Order# 2212092

Client: Fremont Client Project ID: PDC-Schmunk

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

[] [] [] [] []

Matrix (Check all that apply) Air [] Soil/Solid [] Water [x] Other []

Temp (°C) 9.1 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	[x]	[]	[]	on ICE
If custody seals are present, are they intact? (1)	[x]	[]	[]	
Are samples due within 48 hours present?	[]	[x]	[]	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	[]	[]	[x]	
Is a chain-of-custody (COC) form present and filled out Completely? (1)	[x]	[]	[]	
Is the COC properly relinquished by the client w/ date and time recorded? (1)	[x]	[]	[]	
Were all samples received intact? (1)	[x]	[]	[]	
Was adequate sample volume provided? (1)	[x]	[]	[]	
Does the COC agree with the number and type of sample bottles received? (1)	[x]	[]	[]	
Do the sample IDs on the bottle labels match the COC? (1)	[x]	[]	[]	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	[]	[x]	[]	
Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	[x]	[]	[]	HCl
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.	[]	[]	[x]	
If dissolved metals are requested, were samples field filtered?	[]	[]	[x]	

Additional Comments (if any):

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.

[Signature] Custodian Printed Name

12-5-22 1700 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-1
2212092-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0208	12/08/22	12/10/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.0	105 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	94.0	12.0		mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	1770	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2180	10.0		mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-2
2212092-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0208	12/08/22	12/10/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	4.2	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	7.8	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	12	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.4	1.0		"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.3	99.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	103	12.0		mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	1860	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2150	10.0		mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-3
2212092-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0208	12/08/22	12/10/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.5	101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	98.4	12.0		mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	1870	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2110	10.0		mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-4
2212092-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0208	12/08/22	12/10/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.4	100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	102 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	100	12.0		mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	1940	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2140	10.0		mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-6
2212092-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0208	12/08/22	12/10/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.3	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.4	101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.6	102 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	110	12.0		mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	1840	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2170	10.0		mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad
 Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/12/22 17:00

MW-7
2212092-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	49	1.0	ug/l	1	BFL0208	12/08/22	12/10/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	6.1	1.0	"	"	"	"	"	"	
Xylenes (total)	29	2.0	"	"	"	"	"	"	
Naphthalene	2.3	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	14	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.6	1.0	"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.2	99.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	100 %	21-167		"	"	"	"	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-8
2212092-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	330	25	ug/l	25	BFL0208	12/08/22	12/11/22	EPA 8260B	
Toluene	570	25	"	"	"	"	"	"	
Ethylbenzene	91	1.0	"	1	"	"	12/10/22	"	
Xylenes (total)	480	50	"	25	"	"	12/11/22	"	
Naphthalene	15	1.0	"	1	"	"	12/10/22	"	
1,2,4-Trimethylbenzene	89	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	29	1.0	"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.7	95.4 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	13.2	98.9 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	13.4	101 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	115	12.0	mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	1950	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	2070	10.0	mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-9
2212092-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	61	1.0	ug/l	1	BFL0208	12/08/22	12/11/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	19	2.0	"	"	"	"	"	"	
Naphthalene	3.1	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.1	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.1	98.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.2 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	109	12.0	mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	2090	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	2330	10.0	mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-10
2212092-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0208	12/08/22	12/10/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.4	101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	107	12.0		mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	3450	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	3640	10.0		mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-11
2212092-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0208	12/08/22	12/10/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.4	100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	126	12.0		mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	2250	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2550	10.0		mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-12
2212092-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0208	12/08/22	12/10/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.4	100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	100 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	109	12.0		mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	1840	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2140	10.0		mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

MW-13
2212092-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0208	12/08/22	12/10/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.2	107 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	12.9	97.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.0 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	121	12.0		mg/L	200	BFL0187	12/07/22	12/08/22	EPA 300.0	
Sulfate	1870	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2140	10.0		mg/L	1	BFL0226	12/08/22	12/08/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BFL0208 - EPA 5030 Water MS

Blank (BFL0208-BLK1)

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.2		"	13.3		99.2	23-173			
<i>Surrogate: Toluene-d8</i>	13.1		"	13.3		98.4	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	13.3		103	21-167			

LCS (BFL0208-BS1)

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	50.9	1.0	ug/l	50.0		102	51-132			
Toluene	48.2	1.0	"	50.0		96.3	51-138			
Ethylbenzene	49.9	1.0	"	50.0		99.8	58-146			
m,p-Xylene	98.7	2.0	"	100		98.7	57-144			
o-Xylene	50.7	1.0	"	50.0		101	53-146			
Naphthalene	50.0	1.0	"	50.0		100	70-130			
1,2,4-Trimethylbenzene	50.2	1.0	"	50.0		100	70-130			
1,3,5-Trimethylbenzene	50.9	1.0	"	50.0		102	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.4		"	13.3		101	23-173			
<i>Surrogate: Toluene-d8</i>	13.3		"	13.3		99.5	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.5		"	13.3		101	21-167			

Matrix Spike (BFL0208-MS1)

Source: 2212097-01

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	49.5	1.0	ug/l	50.0	ND	99.0	34-141			
Toluene	49.3	1.0	"	50.0	ND	98.6	27-151			
Ethylbenzene	50.0	1.0	"	50.0	ND	100	29-160			
m,p-Xylene	100	2.0	"	100	ND	100	20-166			
o-Xylene	51.9	1.0	"	50.0	ND	104	33-159			
Naphthalene	44.7	1.0	"	50.0	ND	89.3	70-130			
1,2,4-Trimethylbenzene	52.0	1.0	"	50.0	ND	104	70-130			
1,3,5-Trimethylbenzene	52.6	1.0	"	50.0	ND	105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.2		"	13.3		91.2	23-173			
<i>Surrogate: Toluene-d8</i>	13.5		"	13.3		101	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.4		"	13.3		101	21-167			

Summit Scientific

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
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/12/22 17:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFL0208 - EPA 5030 Water MS

Matrix Spike Dup (BFL0208-MSD1)	Source: 2212097-01			Prepared: 12/08/22		Analyzed: 12/09/22				
Benzene	51.7	1.0	ug/l	50.0	ND	103	34-141	4.29	30	
Toluene	51.0	1.0	"	50.0	ND	102	27-151	3.47	30	
Ethylbenzene	51.9	1.0	"	50.0	ND	104	29-160	3.59	30	
m,p-Xylene	103	2.0	"	100	ND	103	20-166	2.96	30	
o-Xylene	53.0	1.0	"	50.0	ND	106	33-159	2.04	30	
Naphthalene	45.8	1.0	"	50.0	ND	91.7	70-130	2.59	30	
1,2,4-Trimethylbenzene	53.6	1.0	"	50.0	ND	107	70-130	2.96	30	
1,3,5-Trimethylbenzene	53.8	1.0	"	50.0	ND	108	70-130	2.37	30	
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.3		91.3	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

Summit Scientific

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
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/12/22 17:00

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limits	RPD	Limit		

Batch BFL0187 - General Preparation

Blank (BFL0187-BLK1)

Prepared: 12/07/22 Analyzed: 12/08/22

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BFL0187-BS1)

Prepared: 12/07/22 Analyzed: 12/08/22

Chloride	2.95	0.0600	mg/L	3.00	98.2	90-110		
Sulfate	13.9	0.300	"	15.0	92.5	90-110		

Duplicate (BFL0187-DUP1)

Source: 2212092-01

Prepared: 12/07/22 Analyzed: 12/08/22

Chloride	86.6	12.0	mg/L		94.0		8.19	20
Sulfate	1700	60.0	"		1770		4.32	20

Matrix Spike (BFL0187-MS1)

Source: 2212092-01

Prepared: 12/07/22 Analyzed: 12/08/22

Chloride	634	12.0	mg/L	600	94.0	90.0	80-120	
Sulfate	4450	60.0	"	3000	1770	89.4	80-120	

Summit Scientific

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
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 12/12/22 17:00

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BFL0226 - General Preparation

Blank (BFL0226-BLK1)

Prepared & Analyzed: 12/08/22

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BFL0226-DUP1)

Source: 2212079-01

Prepared & Analyzed: 12/08/22

Total Dissolved Solids 604 10.0 mg/L 585 3.15 20

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
12/12/22 17:00

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 19, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Schmuk Pad

Work Order #2212202

Enclosed are the results of analyses for samples received by Summit Scientific on 12/08/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Schmuk Pad
Project Number: CO22-010
Project Manager: Paul Henchan

Reported:
12/19/22 11:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW5	2212202-01	Water	12/08/22 00:00	12/08/22 16:00
MW7	2212202-02	Water	12/08/22 00:00	12/08/22 16:00

Summit Scientific

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.

Summit Scientific

S₂

2212202

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

client: Fremont

Project Manager: Paul H

Address:

E-Mail: Paul.h@fremontenv.com Ethand@fremontenv.com

City/State/Zip:

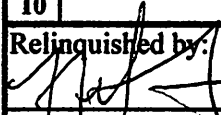

Phone:

Project Name: SCHMUNK

Sampler Name:

Project Number: 2022-016

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	CBETRAMS	Chloride	Sulfate	TDS		
1	MW5	12/8		5	3				X				X	X	X	X		
2	MW7	12/8		5	3				X				X	X	X	X		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished by: 	Date/Time: 12/8/22	Received by: 	Date/Time: 12/8/22	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Temperature Upon Receipt: 8.1	Corrected Temperature: 8	HNO3 lot #	Sample Integrity: Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No		
IR gun correction: 0	IR gun #: 1				

S₂

Sample Receipt Checklist

S2 Work Order# 2212202

Client: Fremont Client Project ID: Schmunk

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

-

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	art-2ce
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

[Signature]
Custodian Printed Name

12-8-22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Schmuk Pad
Project Number: CO22-010
Project Manager: Paul Henchan

Reported:
12/19/22 11:23

MW5
2212202-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/08/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFL0334	12/13/22	12/15/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/08/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	12.8	95.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	18.3	137 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.4	92.9 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/08/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	29.2	12.0		mg/L	200	BFL0276	12/10/22	12/15/22	EPA 300.0	
Sulfate	554	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/08/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2140	10.0		mg/L	1	BFL0371	12/14/22	12/14/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Schmuk Pad
Project Number: CO22-010
Project Manager: Paul Henchan

Reported:
12/19/22 11:23

MW7
2212202-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFL0334	12/13/22	12/15/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.1	1.0	"	"	"	"	"	"	

Date Sampled: **12/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	10.1	75.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.8	133 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.6	94.3 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	95.6	12.0	mg/L	200	BFL0276	12/10/22	12/15/22	EPA 300.0	
Sulfate	1670	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	2120	10.0	mg/L	1	BFL0371	12/14/22	12/14/22	SM2540C	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Schmuk Pad
Project Number: CO22-010
Project Manager: Paul Henchan

Reported:
12/19/22 11:23

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFL0334 - EPA 5030 Water MS

Blank (BFL0334-BLK1)

Prepared: 12/13/22 Analyzed: 12/15/22

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	18.2		"	13.3		136		23-173			
Surrogate: Toluene-d8	14.6		"	13.3		109		20-170			
Surrogate: 4-Bromofluorobenzene	12.1		"	13.3		90.5		21-167			

LCS (BFL0334-BS1)

Prepared: 12/13/22 Analyzed: 12/15/22

Benzene	35.8	1.0	ug/l	33.3		107		51-132			
Toluene	44.3	1.0	"	33.3		133		51-138			
Ethylbenzene	38.5	1.0	"	33.3		115		58-146			
m,p-Xylene	73.9	2.0	"	66.7		111		57-144			
o-Xylene	37.6	1.0	"	33.3		113		53-146			
Naphthalene	38.3	1.0	"	33.3		115		70-130			
1,2,4-Trimethylbenzene	26.4	1.0	"	33.3		79.2		70-130			
1,3,5-Trimethylbenzene	28.2	1.0	"	33.3		84.7		70-130			
Surrogate: 1,2-Dichloroethane-d4	18.8		"	13.3		141		23-173			
Surrogate: Toluene-d8	14.1		"	13.3		106		20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0		21-167			

Matrix Spike (BFL0334-MS1)

Source: 2212199-01

Prepared: 12/13/22 Analyzed: 12/15/22

Benzene	34.4	1.0	ug/l	33.3	ND	103		34-141			
Toluene	49.8	1.0	"	33.3	ND	150		27-151			
Ethylbenzene	44.1	1.0	"	33.3	ND	132		29-160			
m,p-Xylene	86.0	2.0	"	66.7	ND	129		20-166			
o-Xylene	42.5	1.0	"	33.3	ND	127		33-159			
Naphthalene	35.0	1.0	"	33.3	ND	105		70-130			
1,2,4-Trimethylbenzene	30.5	1.0	"	33.3	ND	91.6		70-130			
1,3,5-Trimethylbenzene	32.2	1.0	"	33.3	ND	96.8		70-130			
Surrogate: 1,2-Dichloroethane-d4	4.08		"	13.3		30.6		23-173			
Surrogate: Toluene-d8	15.3		"	13.3		115		20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.3		21-167			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Schmuk Pad
 Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 12/19/22 11:23

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFL0334 - EPA 5030 Water MS

Matrix Spike Dup (BFL0334-MSD1)	Source: 2212199-01			Prepared: 12/13/22 Analyzed: 12/15/22						
Benzene	36.0	1.0	ug/l	33.3	ND	108	34-141	4.63	30	
Toluene	45.4	1.0	"	33.3	ND	136	27-151	9.45	30	
Ethylbenzene	40.7	1.0	"	33.3	ND	122	29-160	8.02	30	
m,p-Xylene	78.3	2.0	"	66.7	ND	117	20-166	9.33	30	
o-Xylene	39.4	1.0	"	33.3	ND	118	33-159	7.65	30	
Naphthalene	36.3	1.0	"	33.3	ND	109	70-130	3.53	30	
1,2,4-Trimethylbenzene	28.1	1.0	"	33.3	ND	84.4	70-130	8.25	30	
1,3,5-Trimethylbenzene	29.4	1.0	"	33.3	ND	88.3	70-130	9.14	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.09</i>		<i>"</i>	<i>13.3</i>		<i>68.2</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>14.3</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.7</i>	<i>21-167</i>			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Schmuk Pad
 Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 12/19/22 11:23

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFL0276 - General Preparation

Blank (BFL0276-BLK1)

Prepared: 12/10/22 Analyzed: 12/14/22

Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							

LCS (BFL0276-BS1)

Prepared: 12/10/22 Analyzed: 12/15/22

Chloride	2.96	0.0600	mg/L	3.00	98.8	90-110				
Sulfate	14.1	0.300	"	15.0	94.0	90-110				

Duplicate (BFL0276-DUP1)

Source: 2212199-01

Prepared: 12/10/22 Analyzed: 12/15/22

Chloride	10.4	12.0	mg/L		16.6		45.9	20		QR-04
Sulfate	165	60.0	"		209		23.7	20		QR-04

Matrix Spike (BFL0276-MS1)

Source: 2212199-01

Prepared: 12/10/22 Analyzed: 12/15/22

Chloride	562	12.0	mg/L	600	16.6	90.9	80-120			
Sulfate	3080	60.0	"	3000	209	95.5	80-120			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Schmuk Pad
 Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 12/19/22 11:23

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BFL0371 - General Preparation

Blank (BFL0371-BLK1)

Prepared & Analyzed: 12/14/22

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BFL0371-DUP1)

Source: 2212199-01

Prepared & Analyzed: 12/14/22

Total Dissolved Solids 739 10.0 mg/L 730 1.25 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Schmuk Pad
Project Number: CO22-010
Project Manager: Paul Henchan

Reported:
12/19/22 11:23

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

February 08, 2023

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Schmunk
Work Order # 2302042

Enclosed are the results of analyses for samples received by Summit Scientific on 02/02/23 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Scott Sheely". The signature is written in a cursive style with a large, stylized "S" at the beginning.

Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
Project Manager: Paul Henehan

Reported:
02/08/23 13:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-B - 8	2302042-01	Soil	02/01/23 15:00	02/02/23 16:00

Summit Scientific

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.

2302042

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Client: Fremont Environmental Project Manager: Paul Heneghan
 Address: _____ E-Mail: _____
 City/State/Zip: _____
 Phone: 970 231 2792 Project Name: Schmuck PDC Energy
 Sampler Name: Mike Gortner Project Number: 622-010

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GC/MS TMS	DAD OPP	PAHs	PH EQ SAE	Ba bar		915-1 method
1	B-B-8	2/1/22	1500	2						X			X	X	X	X			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <u>[Signature]</u> Date/Time: <u>2/1/22</u> <u>1600</u>	Received by: <u>SZ</u> Date/Time: <u>2223</u> <u>1000</u>	Turn Around Time (Check) Same Day <u> </u> 72 hours 24 hours <u> </u> Standard <u>2</u> 48 hours <u> </u>	Notes:
Relinquished by: <u>SZ</u> Date/Time: <u>2223</u> <u>1000</u>	Received by: <u>[Signature]</u> Date/Time: <u>2223</u> <u>1000</u>	Sample Integrity: Temperature Upon Receipt: <u>7.8</u>	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	Samples Intact: <u>(Yes)</u> No	

S₂

Sample Receipt Checklist

S2 Work Order# 23 02 042

Client: Fremont Client Project ID: Schmunk

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) 7.8

Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

[Signature]
Custodian/Printed Name

2.2.23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
Project Manager: Paul Henehan

Reported:
02/08/23 13:49

B-B - 8
2302042-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGB0119	02/06/23	02/07/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.025	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.070	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.3	0.50		"	"	"	"	"	"	

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		69.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		93.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGB0121	02/06/23	02/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		92.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
Project Manager: Paul Henehan

Reported:
02/08/23 13:49

B-B - 8
2302042-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGB0055	02/03/23	02/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	0.0119	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0497	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.0284	0.00500		"	"	"	"	"	"	

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	46.2 %			40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	40.6 %			40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0433	0.0100		mg/L	1	BGB0095	02/03/23	02/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

B-B - 8
2302042-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.61	0.244	0.205	mg/kg dry	1	BGB0108	02/05/23	02/07/23	EPA 6020B	
Barium	95.3	0.488	0.385	"	"	"	"	"	"	
Cadmium	0.253	0.244	0.00878	"	"	"	"	"	"	
Copper	4.92	0.488	0.0255	"	"	"	"	"	"	
Lead	7.51	0.244	0.0670	"	"	"	"	"	"	
Nickel	5.80	0.488	0.0744	"	"	"	"	"	"	
Selenium	0.188	0.260	0.175	"	"	"	"	"	"	
Silver	0.0244	0.0244	0.00326	"	"	"	"	"	"	
Zinc	20.9	0.488	0.324	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGB0142	02/06/23	02/06/23	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	33.0	0.0610		mg/L dry	1	BGB0101	02/04/23	02/06/23	EPA 6020B	
Magnesium	10.4	0.0610		"	"	"	"	"	"	
Sodium	12.7	0.0610		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.446	0.00100		units	1	BGB0171	02/07/23	02/07/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

B-B - 8
2302042-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	82.0			%	1	BGB0160	02/07/23	02/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.391	0.0100		mmhos/cm	1	BGB0107	02/05/23	02/05/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/01/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.73			pH Units	1	BGB0106	02/05/23	02/05/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
Project Manager: Paul Henehan

Reported:
02/08/23 13:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BGB0119 - EPA 5030 Soil MS

Blank (BGB0119-BLK1)

Prepared & Analyzed: 02/06/23

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0372		"	0.0400		93.0	50-150				
<i>Surrogate: Toluene-d8</i>	0.0417		"	0.0400		104	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0440		"	0.0400		110	50-150				

LCS (BGB0119-BS1)

Prepared & Analyzed: 02/06/23

Benzene	0.0822	0.0020	mg/kg	0.100		82.2	70-130				
Toluene	0.0988	0.0050	"	0.100		98.8	70-130				
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130				
m,p-Xylene	0.217	0.010	"	0.200		109	70-130				
o-Xylene	0.100	0.0050	"	0.100		100	70-130				
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130				
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130				
Naphthalene	0.0873	0.0038	"	0.100		87.3	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0312		"	0.0400		78.0	50-150				
<i>Surrogate: Toluene-d8</i>	0.0426		"	0.0400		107	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0403		"	0.0400		101	50-150				

Matrix Spike (BGB0119-MS1)

Source: 2302040-01

Prepared & Analyzed: 02/06/23

Benzene	0.0843	0.0020	mg/kg	0.100	ND	84.3	70-130				
Toluene	0.0794	0.0050	"	0.100	ND	79.4	70-130				
Ethylbenzene	0.0989	0.0050	"	0.100	ND	98.9	70-130				
m,p-Xylene	0.199	0.010	"	0.200	ND	99.6	70-130				
o-Xylene	0.0952	0.0050	"	0.100	ND	95.2	70-130				
1,2,4-Trimethylbenzene	0.0884	0.0050	"	0.100	ND	88.4	70-130				
1,3,5-Trimethylbenzene	0.0912	0.0050	"	0.100	ND	91.2	70-130				
Naphthalene	0.0931	0.0038	"	0.100	ND	93.1	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0272		"	0.0400		68.0	50-150				
<i>Surrogate: Toluene-d8</i>	0.0337		"	0.0400		84.3	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0377		"	0.0400		94.4	50-150				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limit	RPD	Limit	RPD	

Batch BGB0119 - EPA 5030 Soil MS

Matrix Spike Dup (BGB0119-MSD1)	Source: 2302040-01			Prepared & Analyzed: 02/06/23						
Benzene	0.0878	0.0020	mg/kg	0.100	ND	87.8	70-130	4.01	30	
Toluene	0.0852	0.0050	"	0.100	ND	85.2	70-130	7.00	30	
Ethylbenzene	0.0945	0.0050	"	0.100	ND	94.5	70-130	4.59	30	
m,p-Xylene	0.194	0.010	"	0.200	ND	96.8	70-130	2.89	30	
o-Xylene	0.0926	0.0050	"	0.100	ND	92.6	70-130	2.68	30	
1,2,4-Trimethylbenzene	0.0872	0.0050	"	0.100	ND	87.2	70-130	1.47	30	
1,3,5-Trimethylbenzene	0.0891	0.0050	"	0.100	ND	89.1	70-130	2.30	30	
Naphthalene	0.0999	0.0038	"	0.100	ND	99.9	70-130	7.09	30	
Surrogate: 1,2-Dichloroethane-d4	0.0298		"	0.0400		74.6	50-150			
Surrogate: Toluene-d8	0.0360		"	0.0400		90.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	50-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGB0121 - EPA 3550A

Blank (BGB0121-BLK1)

Prepared & Analyzed: 02/06/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	8.98		"	12.5		71.8		30-150			

LCS (BGB0121-BS1)

Prepared & Analyzed: 02/06/23

C10-C28 (DRO)	510	50	mg/kg	500		102		70-130			
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.6		30-150			

Matrix Spike (BGB0121-MS1)

Source: 2302040-01

Prepared & Analyzed: 02/06/23

C10-C28 (DRO)	471	50	mg/kg	500	5.67	93.0		70-130			
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		96.7		30-150			

Matrix Spike Dup (BGB0121-MSD1)

Source: 2302040-01

Prepared & Analyzed: 02/06/23

C10-C28 (DRO)	400	50	mg/kg	500	5.67	78.8		70-130	16.4	20	
Surrogate: <i>o</i> -Terphenyl	9.80		"	12.5		78.4		30-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BGB0055 - EPA 5030 Soil MS

Blank (BGB0055-BLK1)

Prepared & Analyzed: 02/03/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0322</i>		"	<i>0.0333</i>		<i>96.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0270</i>		"	<i>0.0333</i>		<i>81.0</i>	<i>40-150</i>			

LCS (BGB0055-BS1)

Prepared & Analyzed: 02/03/23

Acenaphthene	0.0372	0.00500	mg/kg	0.0333	112	31-137
Anthracene	0.0318	0.00500	"	0.0333	95.3	30-120
Benzo (a) anthracene	0.0194	0.00500	"	0.0333	58.2	30-120
Benzo (a) pyrene	0.0185	0.00500	"	0.0333	55.6	30-120
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	52.7	30-120
Benzo (k) fluoranthene	0.0224	0.00500	"	0.0333	67.3	30-120
Chrysene	0.0360	0.00500	"	0.0333	108	30-120
Dibenz (a,h) anthracene	0.0245	0.00500	"	0.0333	73.5	30-120
Fluoranthene	0.0357	0.00500	"	0.0333	107	30-120
Fluorene	0.0264	0.00500	"	0.0333	79.2	30-120
Indeno (1,2,3-cd) pyrene	0.0231	0.00500	"	0.0333	69.3	30-120
Pyrene	0.0398	0.00500	"	0.0333	119	35-142
1-Methylnaphthalene	0.0256	0.00500	"	0.0333	76.9	35-142
2-Methylnaphthalene	0.0269	0.00500	"	0.0333	80.7	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0285</i>		"	<i>0.0333</i>	<i>85.4</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0321</i>		"	<i>0.0333</i>	<i>96.2</i>	<i>40-150</i>

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
Project Manager: Paul Henehan

Reported:
02/08/23 13:49

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGB0055 - EPA 5030 Soil MS

Matrix Spike (BGB0055-MS1)	Source: 2302033-01			Prepared & Analyzed: 02/03/23								
Acenaphthene	0.0238	0.00500	mg/kg	0.0333	ND	71.4	31-137					
Anthracene	0.0175	0.00500	"	0.0333	ND	52.5	30-120					
Benzo (a) anthracene	0.0179	0.00500	"	0.0333	ND	53.8	30-120					
Benzo (a) pyrene	0.0148	0.00500	"	0.0333	ND	44.3	30-120					
Benzo (b) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.3	30-120					
Benzo (k) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.4	30-120					
Chrysene	0.0172	0.00500	"	0.0333	ND	51.6	30-120					
Dibenz (a,h) anthracene	0.0182	0.00500	"	0.0333	ND	54.5	30-120					
Fluoranthene	0.0207	0.00500	"	0.0333	ND	62.1	30-120					
Fluorene	0.0155	0.00500	"	0.0333	ND	46.6	30-120					
Indeno (1,2,3-cd) pyrene	0.0148	0.00500	"	0.0333	ND	44.4	30-120					
Pyrene	0.0184	0.00500	"	0.0333	ND	55.1	35-142					
1-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.4	15-130					
2-Methylnaphthalene	0.0201	0.00500	"	0.0333	ND	60.3	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0199</i>		<i>"</i>	<i>0.0333</i>		<i>59.8</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0179</i>		<i>"</i>	<i>0.0333</i>		<i>53.6</i>	<i>40-150</i>					

Matrix Spike Dup (BGB0055-MSD1)	Source: 2302033-01			Prepared & Analyzed: 02/03/23								
Acenaphthene	0.0247	0.00500	mg/kg	0.0333	ND	74.1	31-137	3.66	30			
Anthracene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	4.17	30			
Benzo (a) anthracene	0.0138	0.00500	"	0.0333	ND	41.5	30-120	25.9	30			
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.5	30-120	9.08	30			
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.8	30-120	22.1	30			
Benzo (k) fluoranthene	0.0169	0.00500	"	0.0333	ND	50.6	30-120	0.365	30			
Chrysene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	16.1	30			
Dibenz (a,h) anthracene	0.0157	0.00500	"	0.0333	ND	47.2	30-120	14.5	30			
Fluoranthene	0.0174	0.00500	"	0.0333	ND	52.1	30-120	17.5	30			
Fluorene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	15.4	30			
Indeno (1,2,3-cd) pyrene	0.0142	0.00500	"	0.0333	ND	42.5	30-120	4.47	30			
Pyrene	0.0254	0.00500	"	0.0333	ND	76.3	35-142	32.2	30			QR-02
1-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	15-130	4.54	50			
2-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	58.0	15-130	3.87	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0179</i>		<i>"</i>	<i>0.0333</i>		<i>53.6</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0158</i>		<i>"</i>	<i>0.0333</i>		<i>47.4</i>	<i>40-150</i>					

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGB0095 - EPA 3050B

Blank (BGB0095-BLK1)

Prepared: 02/03/23 Analyzed: 02/06/23

Boron ND 0.0100 mg/L

LCS (BGB0095-BS1)

Prepared: 02/03/23 Analyzed: 02/06/23

Boron 5.23 0.0100 mg/L 5.00 105 80-120

Duplicate (BGB0095-DUP1)

Source: 2302037-01

Prepared: 02/03/23 Analyzed: 02/06/23

Boron 0.230 0.0100 mg/L 0.397 53.5 20 QR-04

Matrix Spike (BGB0095-MS1)

Source: 2302037-01

Prepared: 02/03/23 Analyzed: 02/06/23

Boron 5.28 0.0100 mg/L 5.00 0.397 97.6 75-125

Matrix Spike Dup (BGB0095-MSD1)

Source: 2302037-01

Prepared: 02/03/23 Analyzed: 02/06/23

Boron 5.26 0.0100 mg/L 5.00 0.397 97.3 75-125 0.261 25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGB0108 - EPA 3050B

Blank (BGB0108-BLK1)

Prepared: 02/05/23 Analyzed: 02/07/23

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

LCS (BGB0108-BS1)

Prepared: 02/05/23 Analyzed: 02/07/23

Arsenic	35.6	0.200	mg/kg wet	40.0	88.9	80-120
Barium	37.8	0.400	"	40.0	94.4	80-120
Cadmium	1.86	0.200	"	2.00	92.8	80-120
Copper	37.7	0.400	"	40.0	94.3	80-120
Lead	19.0	0.200	"	20.0	94.8	80-120
Nickel	36.8	0.400	"	40.0	92.0	80-120
Selenium	3.47	0.260	"	4.00	86.8	80-120
Silver	1.85	0.0200	"	2.00	92.6	80-120
Zinc	35.6	0.400	"	40.0	88.9	80-120

Duplicate (BGB0108-DUP1)

Source: 2301539-10

Prepared: 02/05/23 Analyzed: 02/07/23

Arsenic	2.73	0.256	mg/kg dry	2.81	2.88	20
Barium	83.6	0.512	"	99.4	17.2	20
Cadmium	0.336	0.256	"	0.330	1.69	20
Copper	8.29	0.512	"	8.24	0.588	20
Lead	10.1	0.256	"	10.1	0.137	20
Nickel	5.76	0.512	"	6.05	4.90	20
Selenium	1.54	0.260	"	1.05	37.5	20
Silver	0.0670	0.0256	"	0.0752	11.5	20
Zinc	24.1	0.512	"	23.8	1.30	20

QR-03

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BGB0108 - EPA 3050B

Matrix Spike (BGB0108-MS1)

Source: 2301539-10

Prepared: 02/05/23 Analyzed: 02/07/23

Arsenic	49.5	0.256	mg/kg dry	51.2	2.81	91.3	75-125				
Barium	139	0.512	"	51.2	99.4	76.5	75-125				
Cadmium	2.67	0.256	"	2.56	0.330	91.6	75-125				
Copper	35.5	0.512	"	51.2	8.24	53.3	75-125				QR-03
Lead	32.5	0.256	"	25.6	10.1	87.6	75-125				
Nickel	32.0	0.512	"	51.2	6.05	50.7	75-125				QR-03
Selenium	8.29	0.260	"	5.12	1.05	141	75-125				QR-03
Silver	2.37	0.0256	"	2.56	0.0752	89.6	75-125				
Zinc	50.3	0.512	"	51.2	23.8	51.7	75-125				QR-03

Matrix Spike Dup (BGB0108-MSD1)

Source: 2301539-10

Prepared: 02/05/23 Analyzed: 02/07/23

Arsenic	49.7	0.256	mg/kg dry	51.2	2.81	91.7	75-125	0.428	25		
Barium	143	0.512	"	51.2	99.4	84.5	75-125	2.93	25		
Cadmium	2.76	0.256	"	2.56	0.330	95.0	75-125	3.22	25		
Copper	34.4	0.512	"	51.2	8.24	51.2	75-125	3.06	25		QR-03
Lead	33.9	0.256	"	25.6	10.1	92.9	75-125	4.07	25		
Nickel	31.1	0.512	"	51.2	6.05	49.0	75-125	2.69	25		QR-03
Selenium	8.39	0.260	"	5.12	1.05	144	75-125	1.26	25		QR-03
Silver	2.43	0.0256	"	2.56	0.0752	92.2	75-125	2.77	25		
Zinc	50.8	0.512	"	51.2	23.8	52.7	75-125	1.04	25		QR-03

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGB0142 - 3060A Mod

Blank (BGB0142-BLK1)

Prepared & Analyzed: 02/06/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGB0142-BS1)

Prepared & Analyzed: 02/06/23

Chromium, Hexavalent 25.8 0.30 mg/kg wet 25.0 103 80-120

Duplicate (BGB0142-DUP1)

Source: 2302057-03

Prepared & Analyzed: 02/06/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGB0142-MS1)

Source: 2302057-03

Prepared & Analyzed: 02/06/23

Chromium, Hexavalent 30.9 0.30 mg/kg dry 29.3 ND 106 75-125

Matrix Spike Dup (BGB0142-MSD1)

Source: 2302057-03

Prepared & Analyzed: 02/06/23

Chromium, Hexavalent 35.1 0.30 mg/kg dry 29.3 ND 120 75-125 12.6 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BGB0101 - General Preparation

Blank (BGB0101-BLK1)

Prepared: 02/04/23 Analyzed: 02/06/23

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BGB0101-BS1)

Prepared: 02/04/23 Analyzed: 02/06/23

Calcium	5.33	0.0500	mg/L wet	5.00		107	70-130			
Magnesium	4.75	0.0500	"	5.00		94.9	70-130			
Sodium	5.97	0.0500	"	5.00		119	70-130			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BGB0160 - General Preparation

Duplicate (BGB0160-DUP1)		Source: 2302040-01			Prepared & Analyzed: 02/07/23					
% Solids	96.5		%		94.9		1.61	20		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGB0107 - General Preparation

Blank (BGB0107-BLK1)

Prepared & Analyzed: 02/05/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGB0107-BS1)

Prepared & Analyzed: 02/05/23

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.2 95-105

Duplicate (BGB0107-DUP1)

Source: 2302042-01

Prepared & Analyzed: 02/05/23

Specific Conductance (EC) 0.391 0.0100 mmhos/cm 0.391 0.0512 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henehan

Reported:
 02/08/23 13:49

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGB0106 - General Preparation

LCS (BGB0106-BS1)

Prepared & Analyzed: 02/05/23

pH	9.16	pH Units	9.18	99.8	95-105
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Duplicate (BGB0106-DUP1)

Source: 2302042-01

Prepared & Analyzed: 02/05/23

pH	7.91	pH Units	7.73	2.30	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010
Project Manager: Paul Henehan

Reported:
02/08/23 13:49

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 20, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Schmunk EF
Work Order #2302226

Enclosed are the results of analyses for samples received by Summit Scientific on 02/10/23 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk EF

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
02/20/23 07:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-14	2302226-01	Water	02/09/23 13:00	02/10/23 16:00

Summit Scientific

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S₂

Sample Receipt Checklist

S2 Work Order# 2302226

Client: Fremont Client Project ID: Schmunk EF - Pac Energy

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

-

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ICE</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

AS
Custodian Printed Name

2/10/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk EF
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
02/20/23 07:06

MW-14
2302226-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/09/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	68	1.0	ug/l	1	BGB0371	02/13/23	02/16/23	EPA 8260B	
Toluene	4.8	1.0	"	"	"	"	"	"	
Ethylbenzene	9.9	1.0	"	"	"	"	"	"	
Xylenes (total)	42	2.0	"	"	"	"	"	"	
Naphthalene	1.9	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	12	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.1	1.0	"	"	"	"	"	"	

Date Sampled: **02/09/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	20.7	155 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.8	111 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **02/09/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	31.2	12.0	mg/L	200	BGB0431	02/14/23	02/14/23	EPA 300.0	
Sulfate	213	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **02/09/23 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	4240	10.0	mg/L	1	BGB0459	02/15/23	02/15/23	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk EF
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
02/20/23 07:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGB0371 - EPA 5030 Water MS

Blank (BGB0371-BLK1)

Prepared: 02/13/23 Analyzed: 02/15/23

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	21.7		"	13.3		163		23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105		20-170			
Surrogate: 4-Bromofluorobenzene	15.1		"	13.3		113		21-167			

LCS (BGB0371-BS1)

Prepared: 02/13/23 Analyzed: 02/15/23

Benzene	42.1	1.0	ug/l	33.3		126		51-132			
Toluene	41.9	1.0	"	33.3		126		51-138			
Ethylbenzene	38.0	1.0	"	33.3		114		58-146			
m,p-Xylene	82.1	2.0	"	66.7		123		57-144			
o-Xylene	38.5	1.0	"	33.3		115		53-146			
Naphthalene	36.9	1.0	"	33.3		111		70-130			
1,2,4-Trimethylbenzene	41.0	1.0	"	33.3		123		70-130			
1,3,5-Trimethylbenzene	39.6	1.0	"	33.3		119		70-130			
Surrogate: 1,2-Dichloroethane-d4	21.3		"	13.3		160		23-173			
Surrogate: Toluene-d8	13.8		"	13.3		104		20-170			
Surrogate: 4-Bromofluorobenzene	15.1		"	13.3		113		21-167			

Matrix Spike (BGB0371-MS1)

Source: 2302205-01

Prepared: 02/13/23 Analyzed: 02/15/23

Benzene	41.6	1.0	ug/l	33.3	ND	125		34-141			
Toluene	41.9	1.0	"	33.3	ND	126		27-151			
Ethylbenzene	38.1	1.0	"	33.3	ND	114		29-160			
m,p-Xylene	81.5	2.0	"	66.7	ND	122		20-166			
o-Xylene	38.7	1.0	"	33.3	ND	116		33-159			
Naphthalene	41.2	1.0	"	33.3	ND	124		70-130			
1,2,4-Trimethylbenzene	40.6	1.0	"	33.3	ND	122		70-130			
1,3,5-Trimethylbenzene	39.3	1.0	"	33.3	ND	118		70-130			
Surrogate: 1,2-Dichloroethane-d4	21.7		"	13.3		163		23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102		20-170			
Surrogate: 4-Bromofluorobenzene	14.8		"	13.3		111		21-167			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk EF
 Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 02/20/23 07:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGB0371 - EPA 5030 Water MS

Matrix Spike Dup (BGB0371-MSD1)	Source: 2302205-01			Prepared: 02/13/23 Analyzed: 02/15/23					
Benzene	42.3	1.0	ug/l	33.3	ND	127	34-141	1.84	30
Toluene	42.1	1.0	"	33.3	ND	126	27-151	0.476	30
Ethylbenzene	38.5	1.0	"	33.3	ND	115	29-160	1.07	30
m,p-Xylene	83.1	2.0	"	66.7	ND	125	20-166	1.99	30
o-Xylene	38.9	1.0	"	33.3	ND	117	33-159	0.387	30
Naphthalene	33.5	1.0	"	33.3	ND	101	70-130	20.6	30
1,2,4-Trimethylbenzene	41.3	1.0	"	33.3	ND	124	70-130	1.64	30
1,3,5-Trimethylbenzene	40.1	1.0	"	33.3	ND	120	70-130	1.99	30
Surrogate: 1,2-Dichloroethane-d4	22.7		"	13.3		170	23-173		
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170		
Surrogate: 4-Bromofluorobenzene	15.4		"	13.3		116	21-167		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk EF
 Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 02/20/23 07:06

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limits	RPD	Limit		

Batch BGB0431 - General Preparation

Blank (BGB0431-BLK1)

Prepared & Analyzed: 02/14/23

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BGB0431-BS1)

Prepared & Analyzed: 02/14/23

Chloride	2.82	0.0600	mg/L	3.00	94.0	90-110			
Sulfate	15.2	0.300	"	15.0	101	90-110			

Duplicate (BGB0431-DUP1)

Source: 2302222-01

Prepared & Analyzed: 02/14/23

Chloride	55.4	12.0	mg/L		64.8		15.6	20	
Sulfate	66.4	60.0	"		66.8		0.601	20	

Matrix Spike (BGB0431-MS1)

Source: 2302222-01

Prepared & Analyzed: 02/14/23

Chloride	569	12.0	mg/L	600	64.8	84.0	80-120		
Sulfate	3280	60.0	"	3000	66.8	107	80-120		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Schmunk EF

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 02/20/23 07:06

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BGB0459 - General Preparation

Blank (BGB0459-BLK1)

Prepared & Analyzed: 02/15/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGB0459-DUP1)

Source: 2302226-01

Prepared & Analyzed: 02/15/23

Total Dissolved Solids 3980 10.0 mg/L 4240 6.30 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Schmunk EF
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
02/20/23 07:06

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference