

FREMONT ENVIRONMENTAL INC.

May 20, 2022

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

Subject: **Excavation 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 Excavation Report for the Schmunk Tank Battery release site in Weld County, Colorado. The enclosed report describes excavation actions to remove impacted soil from the site.

Impacted groundwater was encountered during the excavation work. Therefore, a site investigation will be conducted to delineate the magnitude and extent of impacts.

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

EXCAVATION REPORT

PDC ENERGY INC.

SCHMUNK EF OFFSITE TANK BATTERY #31

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-010

FACILITY #436119, REMEDIATION #22766

Prepared by:

Fremont Environmental Inc.

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May 20, 2022

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 BACKGROUND INFORMATION	1
2.1 Site Location	1
2.2 Site History	1
3.0 FIELD ACTIVITIES	2
4.0 DISCUSSION	4
5.0 REMARKS	5

Tables

Table 1:	Summary of Volatile Petroleum Constituents in Soil Chemistry Data
Table 2:	Summary of PAHs in Soil Chemistry Data
Table 3:	Summary of Metals in Soil Chemistry Data
Table 4:	Summary of Inorganics in Soil Chemistry Data
Table 5:	Summary of Petroleum Constituents in Groundwater Chemistry Data

Figures

Figure 1:	Site Location Map
Figure 2:	Site Map
Figure 3:	Excavation and Sample Locations for Laboratory Analyses
Figure 4:	Proposed Monitoring Wells and Soil Borings

Appendix

Appendix A:	Laboratory Documentation
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EXCAVATION REPORT

PDC ENERGY INC.

SCHMUNK EF OFFSITE TANK BATTERY #31

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-010

FACILITY #436119, REMEDIATION #22766

1.0 INTRODUCTION

The purpose of this document is to present information collected during the excavation of petroleum-impacted soil at the Schmunk EF Offsite Tank Battery #31 release location in Weld County, Colorado. This excavation project was completed on April 22, 2022.

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

The site's excavation area consisted of the soil immediately beneath and adjacent to the facility's water vaults and aboveground storage tanks (ASTs). Soil impacts were identified at the facility following the failure of a water drain valve on an AST on February 23, 2022. Surface impacts and shallow soil were removed using two hydrovacs on February 24, 2022; however, it was determined that further excavation would be required after the ground thawed in the early spring.

A limited site assessment was conducted on April 5, 2022 based on borings (A to E) advanced with a hand auger to determine the anticipated depth of the remedial excavation. Laboratory analyses of soil samples collected from these borings indicated soil impacts were present to a depth of at least 4.5 feet. These analytical data are summarized on Table 1 and presented on Figure 3.

3.0 FIELD ACTIVITIES

Remediation efforts consisted of the excavation of petroleum-impacted soil at the site. The soil consisted of road base which was underlain by silty sand to a depth of at least nine feet. Groundwater was encountered during the excavation work at a depth of approximately eight feet. The 50' x 80' x 8' deep excavated area is shown on Figure 2.

Two test pits (TP-N and TP-S) were excavated beneath the northernmost and the southernmost produced water tanks on April 19, 2022. These test pits were intended to provide a rough delineation of the lateral and vertical extent of the soil impacts. Ultimately, these test pits, as well as the initial hand auger borings (A to E), were included within the overall excavation. The location of the test pits is shown on Figure 3.

Excavation was initiated at the site on April 19, 2022 and completed on April 22, 2022. Soil removal was limited to the area immediately adjacent to and beneath the water vaults and the ASTs. The sidewall samples were collected as grab samples near the lower portion of the excavation wall at a depth of approximately five to nine feet.

The soil samples were analyzed by Summit Scientific Inc. of Golden, Colorado for benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene, trimethylbenzenes, Total Petroleum Hydrocarbons - Gasoline Range Organics (TPH-GRO) by EPA method 8260B, and TPH - Diesel Range Organics (TPH-DRO) and TPH-Residual Range Organics

(TPH-ORO) by EPA method 8015. Ten soil samples were also analyzed for polycyclic aromatic hydrocarbons (PAHs). The two groundwater samples were analyzed for BTEX, naphthalene, 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene by EPA method 8260B.

In addition, floor samples were collected beneath each of the four water vaults. These samples were analyzed for sodium adsorption ratio (SAR), pH, electrical conductivity (EC), and boron. Four sidewall samples were also analyzed for these constituents. The laboratory reports and chain-of-custody documentation are included in Appendix A.

Summaries of the laboratory data are included in Tables 1 to 5. Table 1 presents the laboratory analyses of volatile organic constituents for each soil sample. Tables 2, 3 and 4 present the PAHs, metals and inorganics in soil, respectively. Table 5 summarizes the groundwater chemistry.

The exterior sidewall samples collected upon completion of the excavation indicated that limited residual soil impacts remain after soil removal. Specifically, soil sample W-4 at a depth of five feet, exceeded the Colorado Oil and Gas Conservation Commission's (COGCC's) Table 915-1 Protection of Groundwater Soil Screening Levels (PGW SSLs) for 1-methylnaphthalene and 2-methylnaphthalene. This sample is located along the northeast perimeter of the excavation and was close to the eastern ASTs, which precluded further excavation in that direction.

A Waste Characterization soil sample was collected from the heavily impacted soil that was removed from the site by excavation. This sample exceeded the PGW SSLs for all volatile petroleum constituents, TPH, 1-methylnaphthalene, 2-methylnaphthalene, arsenic and barium. A background sample collected adjacent to the site exceeded the

PGW SSLs for arsenic and selenium. Therefore, elevated arsenic concentrations can be attributed to native conditions.

Groundwater entered the bottom of the excavation on April 19, 2022, which allowed for the collection of two water samples (TP-N and TP-S) from test pits. When analyzed, these groundwater samples exceeded the benzene and 1,2,4 trimethylbenzene standards specified in COGCC's Table 915-1. The benzene concentrations in the TP-N and TP-S samples were 480 and 990 ug/L, respectively. Table 5 and Figure 3 present the groundwater analytical data for petroleum hydrocarbons.

A total of approximately 1,312 tons (~1,010 cubic yards) of petroleum-impacted soil was removed by Acme Oilfield Services Inc. from the location during this project. The impacted soil was disposed of at the North Weld County Landfill in Ault, Colorado as non-hazardous waste.

The excavation was backfilled using clean, imported fill. The bottom one to two feet of this backfill was clean, washed pea gravel to facilitate future remediation if necessary.

4.0 DISCUSSION

As demonstrated by the soil sampling, soil exceeding the COGCC Table 915-1 PGW SSLs has mostly been removed from the site by excavation. This was confirmed by the analyses of the soil samples collected from the exterior excavation sidewalls which were below the COGCC's Table 915-1 standards, except for soil sample W4 which exceeded the PGW SSL limits for 1-methylnaphthalene and 2-methylnaphthalene. Approximately 1,010 cubic yards of impacted soil were removed and transported to the North Weld County landfill. Groundwater was encountered during the excavation and two samples were collected from the excavation floor. Both of these water samples exceeded the COGCC's Table 915-1 standards for benzene and 1,2,4-trimethylbenzene.

Since groundwater impacts were observed, a site investigation will be conducted to determine the magnitude and extent of these impacts. Ten proposed monitoring wells are illustrated on Figure 4. Soil samples will be collected from each boring and analyzed for BTEX, naphthalene, trimethylbenzenes, TPH-GRO, TPH-DRO, TPH-ORO, 1-methylnaphthalene and 2-methylnaphthalene. In addition, three soil borings will be advanced at the fringe of the previous excavation to confirm that soil impacts were removed from the northern and western walls; these soil samples will be analyzed for PAHs. Further, groundwater samples will be collected from each of the monitoring wells and analyzed for BTEX, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, total dissolved solids (TDS), sulfate and chloride. A report documenting the site investigation will be provided following completion of that work.

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.**



5/20/22

Date _____

Paul V. Henehan, P.E.

Senior Consultant

TABLES

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

Sample ID	Depth (ft)	Sample Date	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		
A 3.5 Ft	3.5	4/5/2022	2.6	12	3.1	26	11	3.2	1.3	1000	780	94
A 4.5 Ft	4.5	4/5/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
C 2.5 Ft	2.5	4/5/2022	3.2	20	5.4	34	14	4.1	1.5	1300	940	120
C 3.5 Ft	3.5	4/5/2022	<0.0020	<0.0050	<0.0050	0.014	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
E 4 Ft	4	4/5/2022	14	65	18	92	34	11	3.5	3400	2500	290
E 4.5 Ft	4.5	4/5/2022	<0.0020	<0.0050	<0.0050	0.017	0.013	<0.0050	0.0046	0.96	<50	<50
Waste Char	0	4/19/2022	0.820	6.26	1.97	14.5	5.78	1.96	0.549	258	963	333
N PWV 5 Ft	5	4/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100
N-S PWV 5 Ft	5	4/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100
S-N PWV 5 Ft	5	4/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100
S PWV 5 Ft	5	4/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100
TP-N 6 Ft	6	4/19/2022	<0.0500	0.690	0.660	3.22	3.34	1.01	0.530	117	836	332
F-1	8	4/20/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W-1	5	4/20/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W-2	5	4/20/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W-3	6	4/20/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W-4	7	4/20/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	33	140	<50
W-5	5	4/20/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#4	7	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#5	5	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#2	5	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#6	7	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#7	6	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#8	6	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#9	5	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#10	6	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#11	5	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#12	8	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Sample ID	Depth (ft)	Sample Date	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		
#13	6	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#14	6	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#15	5	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#16	5	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#17	6	4/21/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#18	9	4/22/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#19	6	4/22/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
#20	5	4/22/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<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
SCHMUNK PAD, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-010

Sample ID	Depth (ft)	Sample Date	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
Waste Char	0	4/19/2022	0.0634	0.00405	0.00448	0.00406	<0.00335	0.0026	0.053	0.00349	0.00363	0.209	<0.00335	0.0235	1.74	1.69
F-1	8	4/20/2022	<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
W-1	5	4/20/2022	<0.00500	<0.00500	0.00766	0.00999	0.018	<0.00500	0.00957	<0.00500	0.0177	<0.00500	0.00589	0.0137	<0.00500	<0.00500
W-2	5	4/20/2022	<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
W-3	6	4/20/2022	<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
W-4	7	4/20/2022	<0.00500	0.0941	<0.00500	<0.00500	<0.00500	<0.00500	0.0167	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0623	0.118
W-5	5	4/20/2022	<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
#2	5	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#4	7	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#5	5	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#6	7	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#7	6	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#8	6	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#9	5	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#10	6	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#11	5	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#12	8	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#13	6	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#14	6	4/21/2022	<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
#15	5	4/21/2022	<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
#16	5	4/21/2022	<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
#17	6	4/21/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#18	9	4/22/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#19	6	4/22/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
#20	5	4/22/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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 SOIL SUITABILITY FOR RECLAMATION
PDC ENERGY
SCHMUNK PAD, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-010

Sample ID	Sample Date	Depth (ft)	EC (mmhos/cm)	pH units	SAR units	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			<4	6 - 8.3	<6	2
Waste Char	4/19/2022	0	1.130	7.76	1.41	0.395
N PWV 5 Ft	4/19/2022	5	0.535	8.02	0.997	0.445
N-S PWV 5 Ft	4/19/2022	5	0.682	8.21	1.67	0.780
S-N PWV 5 Ft	4/19/2022	5	0.660	8.20	1.62	0.698
S PWV 5 Ft	4/19/2022	5	0.447	8.33	1.15	0.574
BG-1 1 Ft	4/19/2022	1	0.804	7.93	0.707	0.910
#17	4/21/2022	6	0.722	8.02	1.62	0.429
#4	4/21/2022	7	2.02	8.02	2.38	0.625
#5	4/21/2022	5	0.383	7.92	0.705	0.415
#2	4/21/2022	2	1.26	7.86	2.26	0.592

Bold faced values exceed the COGCC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
PDC ENERGY
SCHMUNK PAD, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C020-010

Sample ID	Depth (ft)	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium (VI) (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	3100	400	1500	390	390	23000	0.3
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	46	14	26	0.26	0.8	370	0.00067
Waste Char	0	4/19/2022	2.39	88.2	0.132	5.93	5.65	6.02	0.251	0.0216	25.1	<0.245
BG-1 1 Ft	1	4/19/2022	3	79.7	0.149	5.59	4.98	4.76	0.315	0.0158	29.9	<0.502

Bold faced values exceed the COGCC Table 915-1 concentrations

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

NA - Not analyzed

TABLE 5
SUMMARY OF GROUNDWATER ORGANIC CHEMISTRY DATA
PDC ENERGY
SCHMUNK PAD, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-010

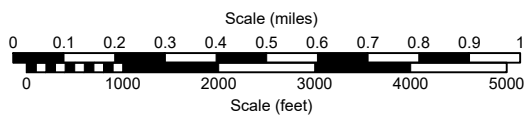
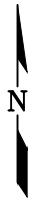
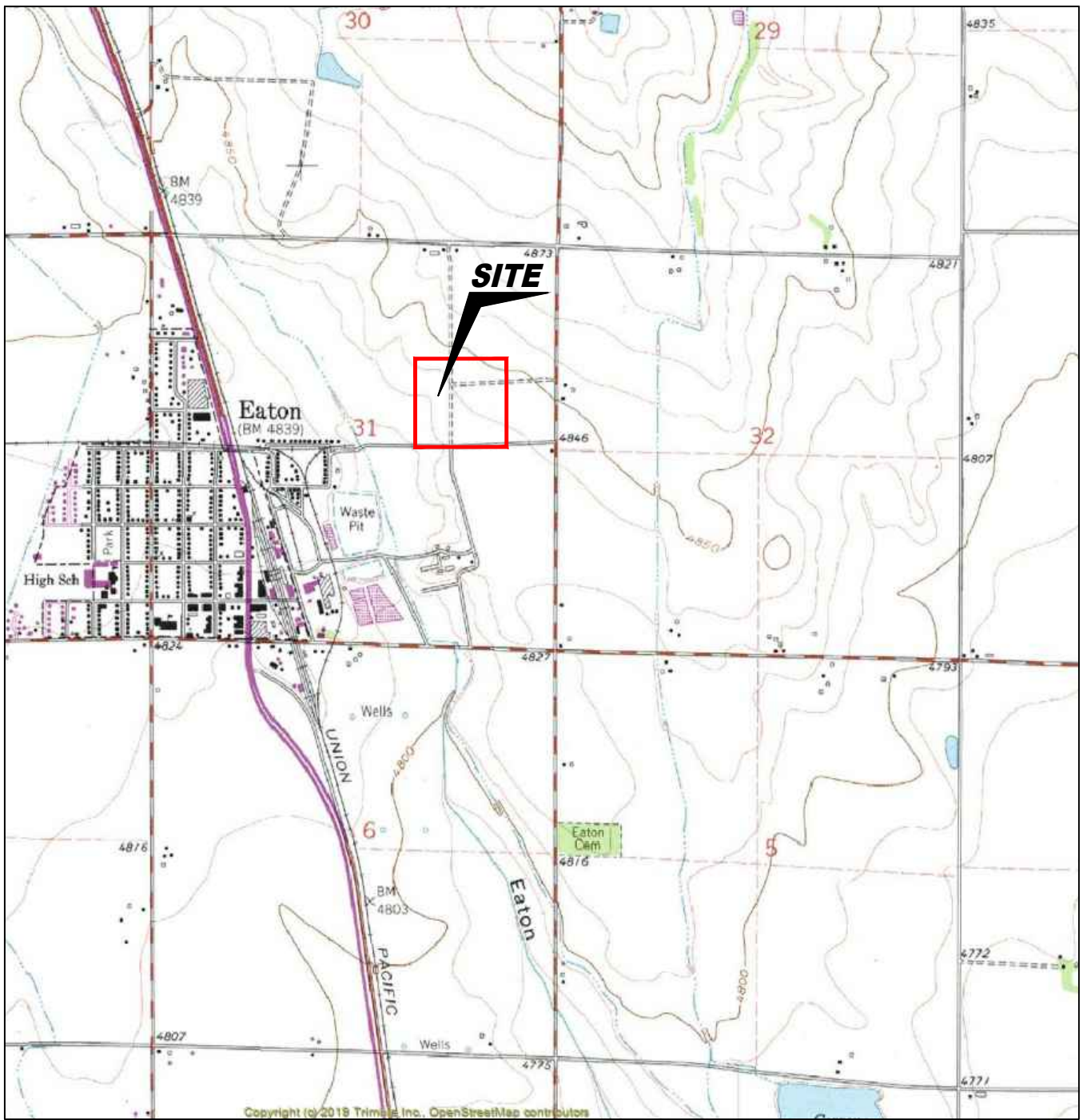
Sample ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Xylenes (ug/L)	1,2,4-Trimethyl-Benzene (ug/L)	1,3,5-Trimethyl-Benzene (ug/L)	Naphthalene (ug/L)
COGCC Table 915-1 Limits		5.0	560	700.0	1400	67	67	140
TP-N	04/18/22	480	560	73	410	99	23	38
TP-S	04/18/22	990	430	65	410	110	27	25

Bold face values exceed the COGCC limits

NP - No measurable LNAPL

DES - Destroyed

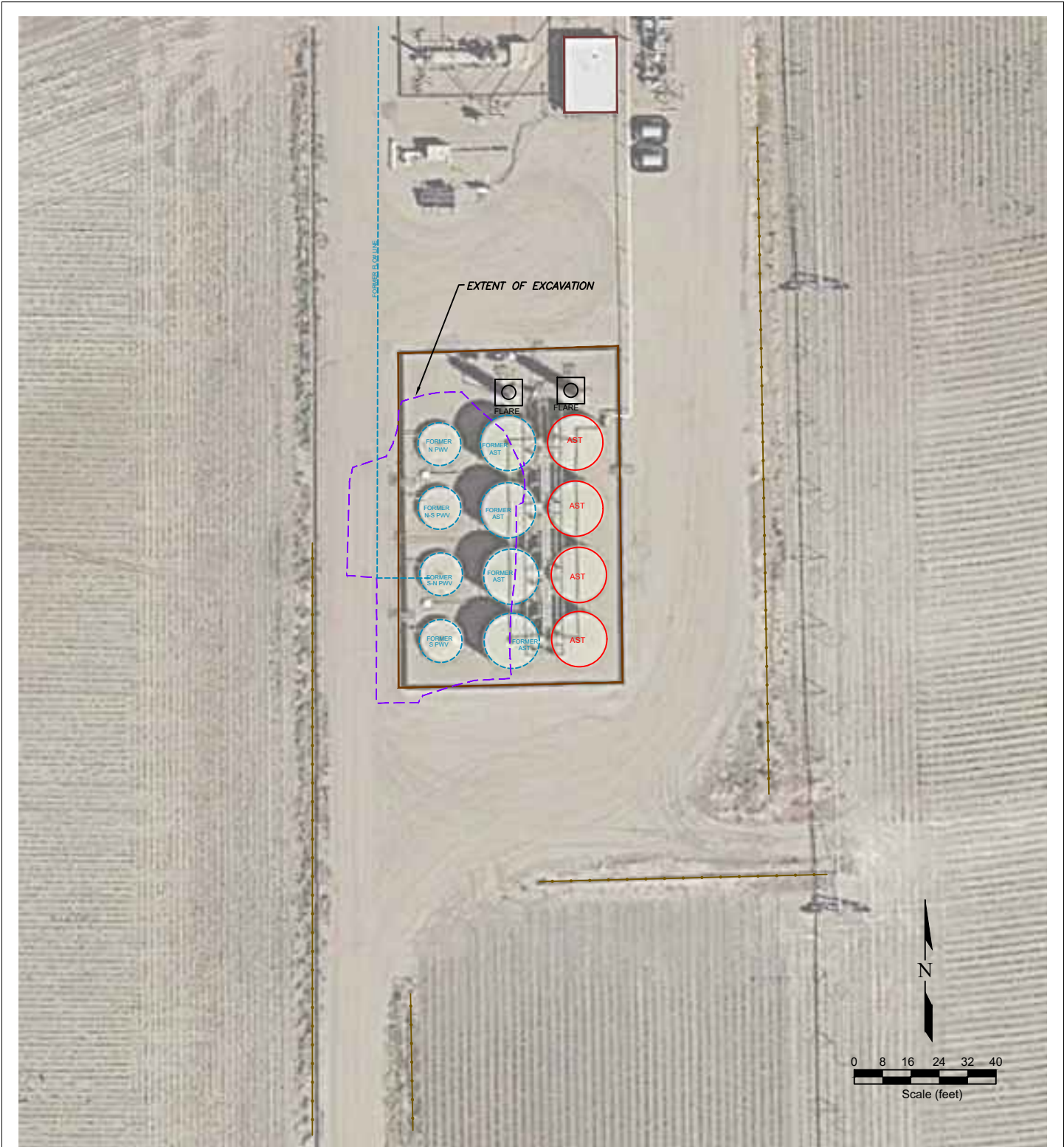
FIGURES



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
PDC ENERGY
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 10/23/22	Reviewed by PH	Filename 22010T	



LEGEND

- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- BUILDING BUILDING
- CONTAINMENT WALL
- EXTENT OF EXCAVATION
- CONTAINMENT WALL
- FLOW LINE

**Figure 2
SITE MAP**

PDC ENERGY
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 10/23/22	Reviewed By PH	Filename 22010Q



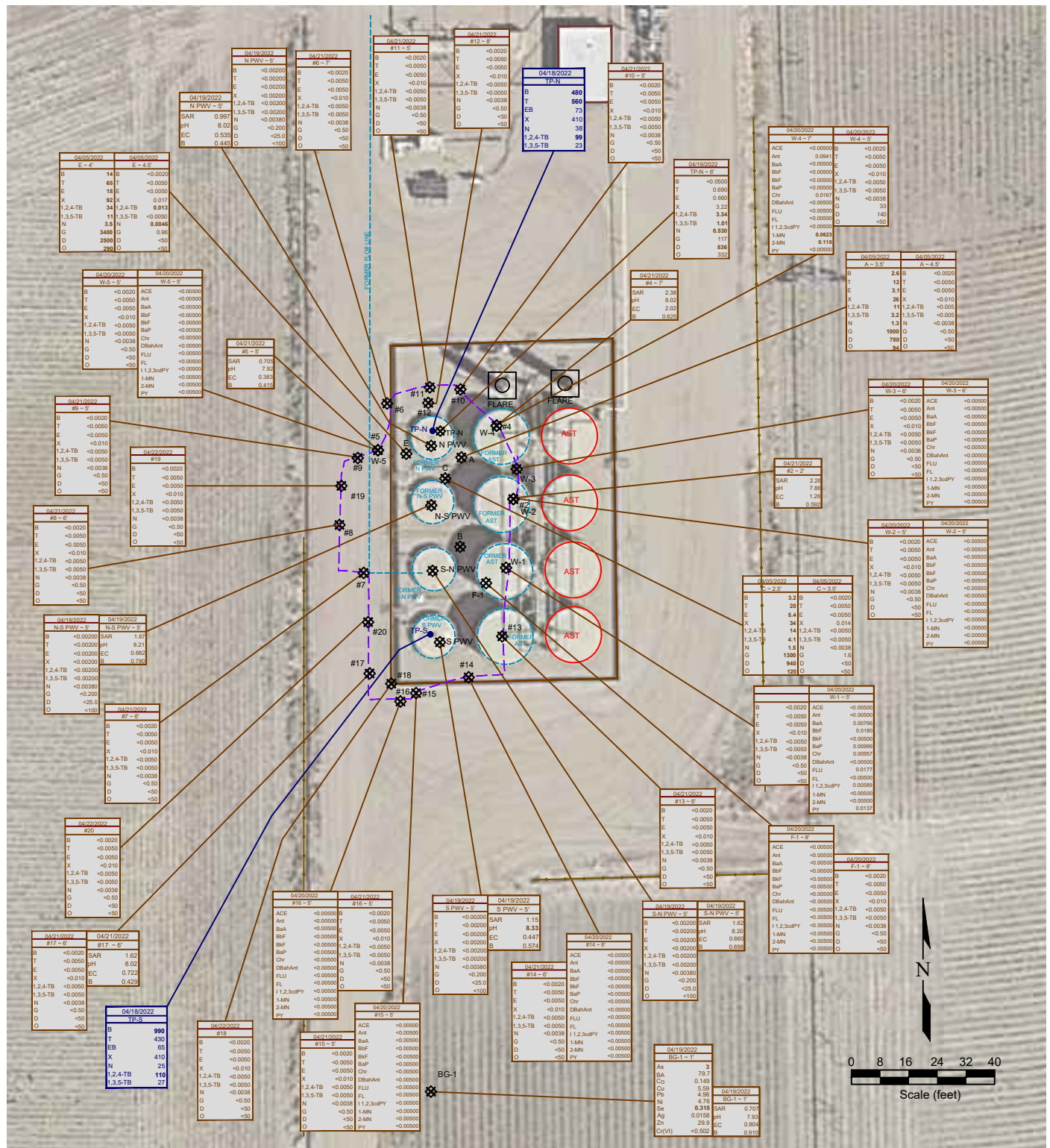


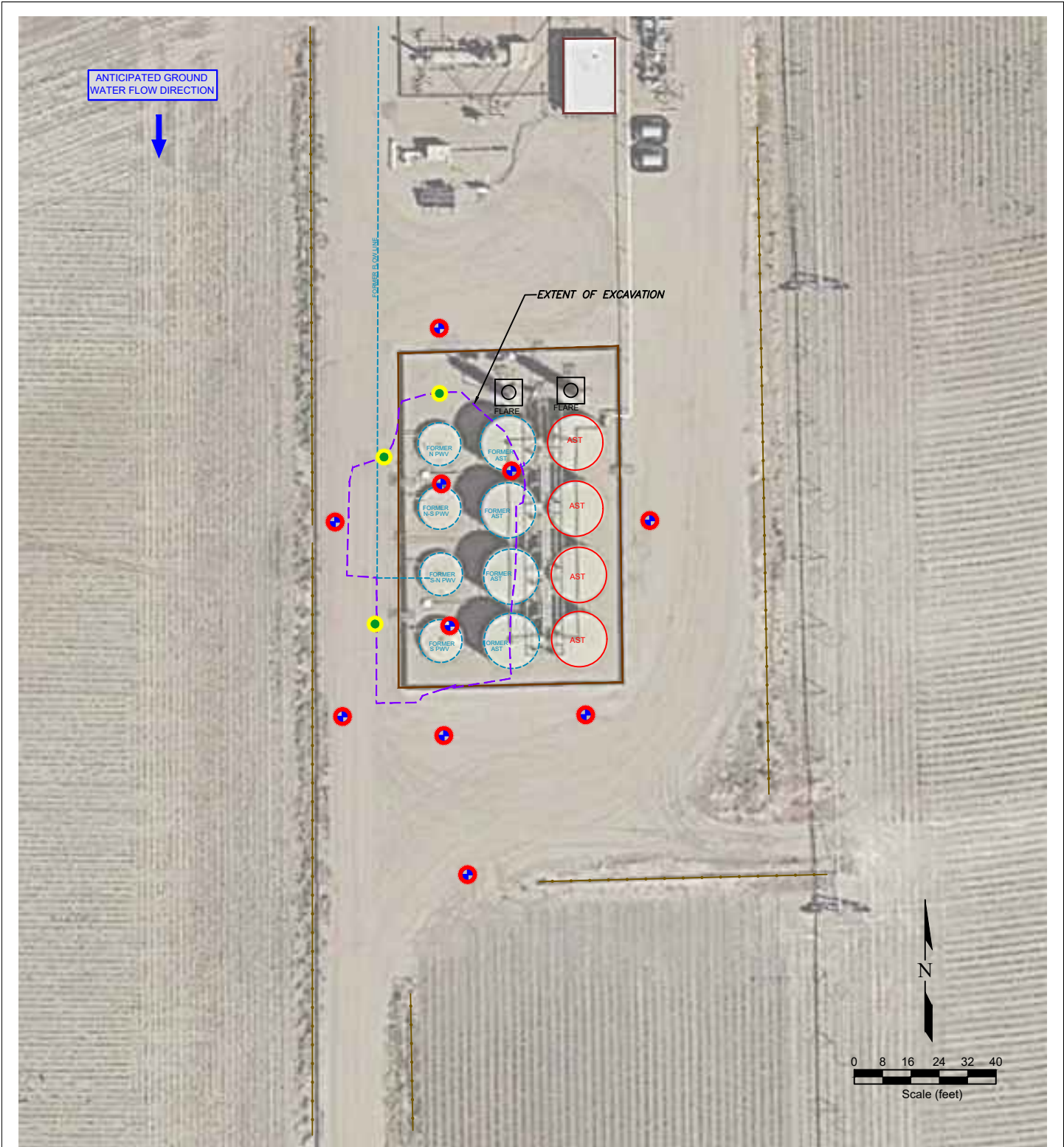
Figure 3
**SOIL CHEMISTRY WITH
 GROUNDWATER CHEMISTRY MAP**
PDC ENERGY
Schunk EF Offsite Tank Battery #31
SWNE Sec. 31, T7N, R65W, 6th PM
 Weld County, Colorado
 40.534297°, -104.701619°

LEGEND

- SOIL SAMPLE LOCATION
- WATER SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER FACILITY
- CONTAINMENT #11
- EXTENT OF EXCAVATION
- CONTAINMENT #11
- FLOW LINE
- BUILDING

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
04/20/2022	F-1-B	04/20/2022	A-3-E
ACE	<0.0050	B	2.8
Ant	<0.0050	T	12 T
BaA	<0.0050	E	3.1 E
BaP	<0.0050	X	28 X
BbF	<0.0050	N	11
BkF	<0.0050	G	1000 G
BaP	<0.0050	D	780 D
Chr	<0.0050	O	94 O
DibahAnt	<0.0050		
FLU	<0.0050		
FLU	<0.0050		
1,1,2,3,4-Py	<0.0050		
1-MN	<0.0050		
2-MN	<0.0050		
Py	<0.0050		

Project No. C022-010	Facility # 436119	Remediation # 22766	
Date 10/23/22	Reviewed By PH	Filename 22010Q	



LEGEND

- ⊕ PROPOSED MONITORING WELL LOCATION (x10)
 ABOVE GROUND STORAGE TANK
- ⊕ PROPOSED MONITORING SOIL BORING LOCATION (x3)
 FORMER FORMER FACILITY
- BUILDING
 EXTENT OF EXCAVATION
- BUILDING
 FLOW LINE
- ← ANTICIPATED GROUND WATER FLOW DIRECTION
 CONTAINMENT WALL

Figure 4
PROPOSED SOIL BORINGS AND MONITORING WELLS

PDC ENERGY
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 10/24/22	Reviewed By PH	Filename 22010QP	

APPENDIX A
LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 08, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: GWOC - Scmmunk Pad
Work Order #2204081

Enclosed are the results of analyses for samples received by Summit Scientific on 04/05/22 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Scmmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
04/08/22 10:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A 3.5 ft	2204081-01	Soil	04/05/22 00:00	04/05/22 17:00
A 4.5 ft	2204081-02	Soil	04/05/22 00:00	04/05/22 17:00
C 2.5 ft	2204081-03	Soil	04/05/22 00:00	04/05/22 17:00
C 3.5 ft	2204081-04	Soil	04/05/22 00:00	04/05/22 17:00
E 4 ft	2204081-05	Soil	04/05/22 00:00	04/05/22 17:00
E 4.5 ft	2204081-06	Soil	04/05/22 00:00	04/05/22 17:00

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

2204081



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

Page 1 of 1

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail:

City/State/Zip:

Phone:

Project Name: GWOL - SCMMUNK PAD

Sampler Name: PVH

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	A 3.5 FT	4/5/22		1			✓			✓				✓	✓									
2	A 4.5 FT																							
3	C 2.5 FT																							
4	C 3.5 FT																							
5	E 4 FT																							
6	E 4.5 FT																							
7																								
8																								
9																								
10																								
Relinquished by: <u>PVH/FE</u>		Date/Time: <u>4/5/22 1700</u>		Received by: <u>[Signature]</u>		Date/Time: <u>4522</u> <u>1700</u>		Turn Around Time (Check)				Notes:												
Relinquished by:		Date/Time:		Received by:		Date/Time:		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 type="checkbox"/>												
Relinquished by:		Date/Time:		Received by:		Date/Time:		48 hours <input checked="" type="checkbox"/>				Sample Integrity:												
Relinquished by:		Date/Time:		Received by:		Date/Time:		Temperature Upon Receipt: <u>3.1</u>				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No												

S₂

2204081

Sample Receipt Checklist

S2 Work Order# _____

Client: Fremont Client Project ID: GWOC-SCHMUNK PAD

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.	-			ON ICE
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?	-			48 hrs
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			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
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.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	
<u>Additional Comments (if any):</u>				

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


Custodian Printed Name

4.5.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Scmmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
04/08/22 10:53

A 3.5 ft
2204081-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	2.6	0.20	mg/kg	100	BFD0114	04/06/22	04/08/22	EPA 8260B	
Toluene	12	0.50	"	"	"	"	"	"	
Ethylbenzene	3.1	0.50	"	"	"	"	"	"	
Xylenes (total)	26	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	11	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.2	0.50	"	"	"	"	"	"	
Naphthalene	1.3	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1000	50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		119 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	780	50	mg/kg	1	BFD0115	04/06/22	04/07/22	EPA 8015M	
C28-C36 (ORO)	94	50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>		94.5 %	30-150		"	"	"	"	

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: GWOC - Scmmunk Pad
Project Number: C022-010
Project Manager: Paul Henchan

Reported:
04/08/22 10:53

A 4.5 ft
2204081-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0114	04/06/22	04/08/22	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: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0115	04/06/22	04/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: GWOC - Scmmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 04/08/22 10:53

C 2.5 ft
2204081-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	3.2	0.20	mg/kg	100	BFD0114	04/06/22	04/08/22	EPA 8260B	
Toluene	20	0.50	"	"	"	"	"	"	
Ethylbenzene	5.4	0.50	"	"	"	"	"	"	
Xylenes (total)	34	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	14	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.1	0.50	"	"	"	"	"	"	
Naphthalene	1.5	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1300	50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		119 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	940	50	mg/kg	1	BFD0115	04/06/22	04/07/22	EPA 8015M	
C28-C36 (ORO)	120	50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Scmmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
04/08/22 10:53

C 3.5 ft
2204081-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0114	04/06/22	04/08/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.014	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.6	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0115	04/06/22	04/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.9 %	30-150		"	"	"	"	

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: GWOC - Scmmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
04/08/22 10:53

E 4 ft
2204081-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	14	0.20	mg/kg	100	BFD0114	04/06/22	04/08/22	EPA 8260B	
Toluene	65	0.50	"	"	"	"	"	"	
Ethylbenzene	18	0.50	"	"	"	"	"	"	
Xylenes (total)	92	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	34	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	11	0.50	"	"	"	"	"	"	
Naphthalene	3.5	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3400	50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		132 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2500	50	mg/kg	1	BFD0115	04/06/22	04/07/22	EPA 8015M	
C28-C36 (ORO)	290	50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

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

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Scmmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
04/08/22 10:53

E 4.5 ft
2204081-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0114	04/06/22	04/08/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.017	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.013	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.0046	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.96	0.50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0115	04/06/22	04/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.2 %	30-150		"	"	"	"	

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: GWOC - Scmmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
04/08/22 10:53

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 BFD0114 - EPA 5030 Soil MS

Blank (BFD0114-BLK1)

Prepared: 04/06/22 Analyzed: 04/07/22

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0434		"	0.0400		108	50-150			
<i>Surrogate: Toluene-d8</i>	0.0406		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0408		"	0.0400		102	50-150			

LCS (BFD0114-BS1)

Prepared: 04/06/22 Analyzed: 04/07/22

Benzene	0.141	0.0020	mg/kg	0.150		94.3	70-130			
Toluene	0.141	0.0050	"	0.150		93.7	70-130			
Ethylbenzene	0.142	0.0050	"	0.150		94.4	70-130			
m,p-Xylene	0.271	0.010	"	0.300		90.5	70-130			
o-Xylene	0.141	0.0050	"	0.150		94.1	70-130			
1,2,4-Trimethylbenzene	0.140	0.0050	"	0.150		93.6	70-130			
1,3,5-Trimethylbenzene	0.143	0.0050	"	0.150		95.1	70-130			
Naphthalene	0.138	0.0038	"	0.150		92.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0403		"	0.0400		101	50-150			
<i>Surrogate: Toluene-d8</i>	0.0407		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0399		"	0.0400		99.7	50-150			

Matrix Spike (BFD0114-MS1)

Source: 2204028-01

Prepared: 04/06/22 Analyzed: 04/07/22

Benzene	0.136	0.0020	mg/kg	0.150	ND	90.9	70-130			
Toluene	0.135	0.0050	"	0.150	ND	90.1	70-130			
Ethylbenzene	0.136	0.0050	"	0.150	ND	91.0	70-130			
m,p-Xylene	0.260	0.010	"	0.300	ND	86.6	70-130			
o-Xylene	0.134	0.0050	"	0.150	ND	89.4	70-130			
1,2,4-Trimethylbenzene	0.129	0.0050	"	0.150	ND	85.9	70-130			
1,3,5-Trimethylbenzene	0.131	0.0050	"	0.150	ND	87.3	70-130			
Naphthalene	0.128	0.0038	"	0.150	ND	85.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0411		"	0.0400		103	50-150			
<i>Surrogate: Toluene-d8</i>	0.0406		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0406		"	0.0400		101	50-150			

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: GWOC - Scmmunk Pad

Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 04/08/22 10:53

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 BFD0114 - EPA 5030 Soil MS

Matrix Spike Dup (BFD0114-MSD1)	Source: 2204028-01			Prepared: 04/06/22 Analyzed: 04/07/22						
Benzene	0.136	0.0020	mg/kg	0.150	ND	90.6	70-130	0.353	30	
Toluene	0.138	0.0050	"	0.150	ND	91.7	70-130	1.74	30	
Ethylbenzene	0.136	0.0050	"	0.150	ND	90.8	70-130	0.242	30	
m,p-Xylene	0.260	0.010	"	0.300	ND	86.6	70-130	0.0924	30	
o-Xylene	0.134	0.0050	"	0.150	ND	89.3	70-130	0.134	30	
1,2,4-Trimethylbenzene	0.129	0.0050	"	0.150	ND	86.0	70-130	0.116	30	
1,3,5-Trimethylbenzene	0.132	0.0050	"	0.150	ND	88.0	70-130	0.730	30	
Naphthalene	0.127	0.0038	"	0.150	ND	84.8	70-130	0.916	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0411</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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: GWOC - Semmunk Pad
 Project Number: C022-010
 Project Manager: Paul Henchan

Reported:
 04/08/22 10:53

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 BFD0115 - EPA 3550A

Blank (BFD0115-BLK1)

Prepared: 04/06/22 Analyzed: 04/07/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								

LCS (BFD0115-BS1)

Prepared: 04/06/22 Analyzed: 04/07/22

C10-C28 (DRO)	487	50	mg/kg	500	97.3	70-130					
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Matrix Spike (BFD0115-MS1)

Source: 2204028-01

Prepared: 04/06/22 Analyzed: 04/07/22

C10-C28 (DRO)	439	50	mg/kg	500	10.8	85.7	70-130				
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Matrix Spike Dup (BFD0115-MSD1)

Source: 2204028-01

Prepared: 04/06/22 Analyzed: 04/07/22

C10-C28 (DRO)	445	50	mg/kg	500	10.8	86.9	70-130	1.35	20		
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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: GWOC - Scmmunk Pad

Project Number: C022-010
Project Manager: Paul Henchan

Reported:
04/08/22 10:53

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

April 20, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: GWOC - Schmunk Tank Battery
Work Order #2204292

Enclosed are the results of analyses for samples received by Summit Scientific on 04/19/22 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: GWOC - Schmunk Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/20/22 06:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-N	2204292-01	Water	04/19/22 00:00	04/19/22 17:30
TP-S	2204292-02	Water	04/19/22 00:00	04/19/22 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.

2204292

Summit Scientific

S₂

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

Page 1 of 1

Client: Fremont Environmental Inc.	Project Manager: Paul Henehan
Address:	E-Mail:
City/State/Zip:	Bill TO: PAUL
Phone:	Project Name: GWOL - SCHMUNK TANK BATTERY
Sampler Name: PVH	Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested								Special Instructions							
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	915-1 metals	Arsenic	BTEXN + TMBs	TDS, Cl, Su						
1	TP-N	4/19/22		3	✓				✓																		
2	TP-S	"		3	✓				✓																		
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
Relinquished by: <u>PA/FE</u>		Date/Time: <u>4/19/22</u>		Received by: <u>[Signature]</u>		Date/Time: <u>4/19/22 1730</u>		Turn Around Time (Check)		Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>		24 hours <input type="checkbox"/> Standard <input type="checkbox"/>		48 hours <input type="checkbox"/>		Sample Integrity:		Temperature Upon Receipt: <u>2.8</u>		Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No		Notes:					

S₂

S2 Work Order# 2204292

Sample Receipt Checklist

Client: Fremont Client Project ID: GWOC-Schmunk Tank Battery

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.	-			on ice
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?	-			same day
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			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		-		
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.	-			HCl
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	

Additional Comments (if any):

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


Custodian Printed Name

4.19.22
Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: GWOC - Schmunk Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/20/22 06:15

TP-N
2204292-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	480	100	ug/l	100	BFD0399	04/19/22	04/19/22	EPA 8260B	
Toluene	560	100	"	"	"	"	"	"	
Ethylbenzene	73	1.0	"	1	"	"	04/19/22	"	
Xylenes (total)	410	2.0	"	"	"	"	"	"	
Naphthalene	38	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	99	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	23	1.0	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		23-173	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.2 %		20-170	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		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: GWOC - Schmunk Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/20/22 06:15

TP-S
2204292-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	990	100		ug/l	100	BFD0399	04/19/22	04/19/22	EPA 8260B	
Toluene	430	100		"	"	"	"	"	"	
Ethylbenzene	65	1.0		"	1	"	"	04/19/22	"	
Xylenes (total)	410	2.0		"	"	"	"	"	"	
Naphthalene	25	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	110	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	27	1.0		"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %		23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93.0 %		20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %		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: GWOC - Schmunk Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/20/22 06:15

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 BFD0399 - EPA 5030 Water MS

Blank (BFD0399-BLK1)

Prepared & Analyzed: 04/19/22

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>	14.8		"	13.3		111		23-173			
<i>Surrogate: Toluene-d8</i>	12.2		"	13.3		91.6		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.2		"	13.3		99.0		21-167			

LCS (BFD0399-BS1)

Prepared & Analyzed: 04/19/22

Benzene	33.2	1.0	ug/l	33.3		99.6		51-132			
Toluene	36.6	1.0	"	33.3		110		51-138			
Ethylbenzene	40.4	1.0	"	33.3		121		58-146			
m,p-Xylene	82.1	2.0	"	66.7		123		57-144			
o-Xylene	40.5	1.0	"	33.3		122		53-146			
Naphthalene	38.7	1.0	"	33.3		116		70-130			
1,2,4-Trimethylbenzene	37.5	1.0	"	33.3		113		70-130			
1,3,5-Trimethylbenzene	36.7	1.0	"	33.3		110		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	16.0		"	13.3		120		23-173			
<i>Surrogate: Toluene-d8</i>	12.6		"	13.3		94.6		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.5		"	13.3		102		21-167			

Matrix Spike (BFD0399-MS1)

Source: 2204240-01

Prepared & Analyzed: 04/19/22

Benzene	33.6	1.0	ug/l	33.3	ND	101		34-141			
Toluene	36.8	1.0	"	33.3	ND	111		27-151			
Ethylbenzene	41.1	1.0	"	33.3	ND	123		29-160			
m,p-Xylene	82.6	2.0	"	66.7	ND	124		20-166			
o-Xylene	41.2	1.0	"	33.3	ND	124		33-159			
Naphthalene	35.1	1.0	"	33.3	ND	105		70-130			
1,2,4-Trimethylbenzene	39.0	1.0	"	33.3	ND	117		70-130			
1,3,5-Trimethylbenzene	37.8	1.0	"	33.3	ND	113		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	16.3		"	13.3		122		23-173			
<i>Surrogate: Toluene-d8</i>	12.8		"	13.3		95.6		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	13.3		102		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: GWOC - Schmunk Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/20/22 06:15

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 BFD0399 - EPA 5030 Water MS

Matrix Spike Dup (BFD0399-MSD1)	Source: 2204240-01			Prepared & Analyzed: 04/19/22							
Benzene	33.3	1.0	ug/l	33.3	ND	99.9	34-141	0.986	30		
Toluene	36.8	1.0	"	33.3	ND	110	27-151	0.0543	30		
Ethylbenzene	41.5	1.0	"	33.3	ND	125	29-160	0.968	30		
m,p-Xylene	82.9	2.0	"	66.7	ND	124	20-166	0.254	30		
o-Xylene	41.7	1.0	"	33.3	ND	125	33-159	1.16	30		
Naphthalene	34.0	1.0	"	33.3	ND	102	70-130	3.18	30		
1,2,4-Trimethylbenzene	39.4	1.0	"	33.3	ND	118	70-130	0.996	30		
1,3,5-Trimethylbenzene	37.8	1.0	"	33.3	ND	113	70-130	0.132	30		
Surrogate: 1,2-Dichloroethane-d4	16.0		"	13.3		120	23-173				
Surrogate: Toluene-d8	12.6		"	13.3		94.7	20-170				
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	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: GWOC - Schmunk Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/20/22 06:15

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

April 27, 2022


Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Schmuk Pad

Work Order #2204313

Enclosed are the results of analyses for samples received by Summit Scientific on 04/20/22 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large, stylized initial "M".

Muri Premer For Paul Shrewsbury
President

April 29, 2022

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - GWOC - Schmunk

Project Number - C022-010

Attached are your analytical results for GWOC - Schmunk received by Origins Laboratory, Inc. April 20, 2022. This project is associated with Origins project number Y204429-01.

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

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

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

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

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

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



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

Paul Henehan
Project Number: C022-010
Project: GWOC - Schmunk

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Waste Char	Y204429-01	Soil	April 19, 2022 0:00	04/20/2022 12:15
N PWV 5FT	Y204429-02	Soil	April 19, 2022 0:00	04/20/2022 12:15
N-S PWV 5FT	Y204429-03	Soil	April 19, 2022 0:00	04/20/2022 12:15
S-N PWV 5FT	Y204429-04	Soil	April 19, 2022 0:00	04/20/2022 12:15
S PWV 5FT	Y204429-05	Soil	April 19, 2022 0:00	04/20/2022 12:15
BG-1 1F	Y204429-06	Soil	April 19, 2022 0:00	04/20/2022 12:15
TP-N@6 Ft	Y204429-07	Soil	April 19, 2022 0:00	04/20/2022 12:15

Origins Laboratory, Inc.



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

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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ✓ 204429

Client: Fremont

Client Project ID: Schmunk

Checklist Completed by: JG

Shipped Via: HS
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/20/22

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 15.4 °c / _____ °c / _____ °c (Describe) _____ °c

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?		<input checked="" type="checkbox"/>		No sample times
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any): <u>extra sample added per Pauls phone call on 4/20</u>				

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

Reviewed by (Project Manager) JG

Date/Time Reviewed 4-21-22

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

Waste Char

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.395		0.0988	mg/L	1	B2D2102	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	963		25.0	mg/kg	1	B2D2008	04/20/2022	04/22/2022	
Residual Range Organics (C28-C40)	333		100	"	"	"	"	"	

Surrogate: o-Terphenyl	85.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	5.78		0.500	mg/kg	250	B2D2037	04/20/2022	04/21/2022	
1,3,5-Trimethylbenzene	1.96		0.500	"	"	"	"	"	
Benzene	0.820		0.500	"	"	"	"	"	
Ethylbenzene	1.97		0.500	"	"	"	"	"	
Toluene	6.26		0.500	"	"	"	"	"	
Xylenes, total	14.5		0.500	"	"	"	"	"	
Gasoline Range Hydrocarbons	258		50.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.9 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

Waste Char

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.91		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	2.16		0.823	"	"	"	"	"	
Sodium	2.83		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	1.74	0.00182	0.00335	mg/Kg	5	L612439	04/23/2022	04/26/2022	
2-Methylnaphthalene	1.68	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	0.0634	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.00405	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00448	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.0026	0.00234	0.00335	"	"	"	"	"	J
Benzo(b)fluoranthene	0.00406	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.053	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00349	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.00363	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.209	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	0.549	0.00242	0.00335	"	"	"	"	"	
Pyrene	0.0235	0.00322	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

Waste Char

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204429-01 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	72.1 %		33-115			L6124 39	04/23/2022	04/26/2022	
Surrogate: 4-Terphenyl-d14	72.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.76			pH Units	1	B2D2103	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	1.41			SAR	1	B2D2101	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.13		0.00500	mmhos/cm	1	B2D2104	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	2.39	0.0855	0.25	mg/Kg	5	L612367	04/22/2022	04/25/2022	
Barium	88.2	0.042	0.25	"	"	"	"	"	
Cadmium	0.132	0.0259	0.25	"	"	"	"	"	J
Copper	5.93	0.0806	0.25	"	"	"	"	"	
Lead	5.65	0.031	0.25	"	"	"	"	"	
Nickel	6.02	0.0633	0.25	"	"	"	"	"	
Selenium	0.251	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-010
Project: GWOC - Schmunk

Waste Char

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y204429-01 (Soil)

Total Metals by 6020B

Silver	0.0216	0.0067	0.25	mg/Kg	5	L612367	04/22/2022	04/25/2022	J
Zinc	25.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L612872	04/19/2022	04/26/2022	
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Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

N PWV 5FT
4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.445		0.101	mg/L	1	B2D2102	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2008	04/20/2022	04/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	90.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2037	04/20/2022	04/21/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

N PWV 5FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	98.3 %		70-130			B2D20 37	04/20/2022	04/21/2022	
Surrogate: Toluene-d8	98.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.45		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	1.47		0.823	"	"	"	"	"	
Sodium	1.40		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B2D2103	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.997			SAR	1	B2D2101	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.535		0.00500	mmhos/cm	1	B2D2104	04/21/2022	04/22/2022	
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Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

N-S PWV 5FT
4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.780		0.100	mg/L	1	B2D2102	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2008	04/20/2022	04/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2037	04/20/2022	04/21/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

N-S PWV 5FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B2D20 37	04/20/2022	04/21/2022	
Surrogate: Toluene-d8	98.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.65		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	3.36		0.823	"	"	"	"	"	
Sodium	2.65		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B2D2103	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	1.67			SAR	1	B2D2101	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.682		0.00500	mmhos/cm	1	B2D2104	04/21/2022	04/22/2022	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

S-N PWV 5FT
4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.698		0.0997	mg/L	1	B2D2102	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2008	04/20/2022	04/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2037	04/20/2022	04/21/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

S-N PWV 5FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			B2D20 37	04/20/2022	04/21/2022	
Surrogate: Toluene-d8	96.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.05		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	2.50		0.823	"	"	"	"	"	
Sodium	2.45		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.20			pH Units	1	B2D2103	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	1.62			SAR	1	B2D2101	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.660		0.00500	mmhos/cm	1	B2D2104	04/21/2022	04/22/2022	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

S PWV 5FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.574		0.0989	mg/L	1	B2D2102	04/21/2022	04/22/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2008	04/20/2022	04/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2037	04/20/2022	04/22/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

S PWV 5FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			B2D20 37	04/20/2022	04/22/2022	
Surrogate: Toluene-d8	96.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.07		0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022	
Magnesium	2.02		0.823	"	"	"	"	"	
Sodium	1.43		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.33			pH Units	1	B2D2103	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	1.15			SAR	1	B2D2101	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.447		0.00500	mmhos/cm	1	B2D2104	04/21/2022	04/22/2022	
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Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

BG-1 1F

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.910		0.101	mg/L	1	B2D2102	04/21/2022	04/22/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	4.49		0.499	meq/L	10	[CALC]	"	04/22/2022	
Magnesium	1.71		0.823	"	"	"	"	"	
Sodium	1.24		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.93			pH Units	1	B2D2103	04/21/2022	04/22/2022	
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SAR by 20B Saturated Paste

SAR	0.707			SAR	1	B2D2101	04/21/2022	04/22/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.804		0.00500	mmhos/cm	1	B2D2104	04/21/2022	04/22/2022	
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Total Metals by 6020B

Arsenic	3	0.0855	0.25	mg/Kg	5	L612367	04/22/2022	04/25/2022	
Barium	79.7	0.042	0.25	"	"	"	"	"	
Cadmium	0.149	0.0259	0.25	"	"	"	"	"	J
Copper	5.59	0.0806	0.25	"	"	"	"	"	

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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

BG-1 1F

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204429-06 (Soil)

Total Metals by 6020B

Lead	4.98	0.031	0.25	mg/Kg	5	L612367	04/22/2022	04/25/2022	
Nickel	4.76	0.0633	0.25	"	"	"	"	"	
Selenium	0.315	0.103	0.25	"	"	"	"	"	
Silver	0.0158	0.0067	0.25	"	"	"	"	"	J
Zinc	29.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L612872	04/19/2022	04/26/2022	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

TP-N@6 Ft
4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204429-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	836		25.0	mg/kg	1	B2D2008	04/20/2022	04/22/2022	
Residual Range Organics (C28-C40)	332		100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 126 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	3.34		0.500	mg/kg	250	B2D2037	04/20/2022	04/22/2022	
1,3,5-Trimethylbenzene	1.01		0.500	"	"	"	"	"	
Benzene	ND		0.0500	"	25	"	"	04/22/2022	R-05, U
Ethylbenzene	0.660		0.500	"	250	"	"	04/22/2022	
Naphthalene	0.530		0.250	"	25	"	"	04/22/2022	
Toluene	0.690		0.500	"	250	"	"	04/22/2022	
Xylenes, total	3.22		0.500	"	"	"	"	"	
Gasoline Range Hydrocarbons	117		50.0	"	"	"	"	"	

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

Surrogate: Toluene-d8 99.9 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 99.4 % 70-130 " " "

Origins Laboratory, Inc.



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Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D2008 - EPA 3550B										
Blank (B2D2008-BLK1)										
					Prepared: 04/20/2022 Analyzed: 04/21/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	15		"	24.9		60.8	50-150			

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Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D2008 - EPA 3550B

LCS (B2D2008-BS1)

Prepared: 04/20/2022 Analyzed: 04/21/2022

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	988	200	"	1000		98.8	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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 Wellington CO 80549

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D2008 - EPA 3550B

Matrix Spike (B2D2008-MS1)	Source: Y204426-01		Prepared: 04/20/2022 Analyzed: 04/21/2022							
Diesel (C10-C28)	922	50.0	mg/kg	1000	ND	92.2	70-130			
Residual Range Organics (C28-C40)	823	200	"	1000	ND	82.3	70-130			
Surrogate: o-Terphenyl	37		"	49.8		75.0	50-150			

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Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D2008 - EPA 3550B										
Matrix Spike Dup (B2D2008-MSD1)					Source: Y204426-01					Prepared: 04/20/2022 Analyzed: 04/21/2022
Diesel (C10-C28)	908	50.0	mg/kg	1000	ND	90.8	70-130	1.44	35	
Residual Range Organics (C28-C40)	850	200	"	1000	ND	85.0	70-130	3.19	35	
Surrogate: o-Terphenyl	38		"	49.8		76.3	50-150			

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Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D2037 - EPA 5030 (soil)

Blank (B2D2037-BLK1)

Prepared: 04/20/2022 Analyzed: 04/21/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	95.8		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	87.9		70-130			

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Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D2037 - EPA 5030 (soil)

LCS (B2D2037-BS1)

Prepared: 04/20/2022 Analyzed: 04/21/2022

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.0928	0.0100	"	0.100		92.8	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.225	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D2037 - EPA 5030 (soil)

Matrix Spike (B2D2037-MS1)	Source: Y204206-02			Prepared: 04/20/2022 Analyzed: 04/21/2022						
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.104	0.00200	"	0.100	ND	104	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.0857	0.0100	"	0.100	ND	85.7	70-130			
Toluene	0.101	0.00200	"	0.100	ND	101	70-130			
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130			
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Wellington CO 80549

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D2037 - EPA 5030 (soil)

Matrix Spike Dup (B2D2037-MSD1)	Source: Y204206-02			Prepared: 04/20/2022 Analyzed: 04/21/2022						
1,2,4-Trimethylbenzene	0.0984	0.00200	mg/kg	0.100	ND	98.4	70-130	7.53	20	
1,3,5-Trimethylbenzene	0.0987	0.00200	"	0.100	ND	98.7	70-130	7.36	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	1.87	20	
Ethylbenzene	0.0959	0.00200	"	0.100	ND	95.9	70-130	11.8	20	
Naphthalene	0.0894	0.0100	"	0.100	ND	89.4	70-130	4.18	20	
Toluene	0.0967	0.00200	"	0.100	ND	96.7	70-130	4.79	20	
o-Xylene	0.0981	0.00200	"	0.100	ND	98.1	70-130	8.38	20	
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.5	70-130	10.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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 Wellington CO 80549

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612439 - 3550B

MSD (L 95667-MSD-L612439)		Source: 95667			Prepared: 04/23/2022 Analyzed: 04/26/2022					
Dibenz(a,h)anthracene	0.202	0.00307	mg/Kg	0.163	95667	124	30-130	6.2	30	
Fluoranthene	0.124	0.00197	"	0.163	95667	76	30-130	10.6	30	
Fluorene	0.109	0.00143	"	0.163	0.00512	63.7	30-130	15.2	30	
Pyrene	0.13	0.00322	"	0.163	0.00779	74.9	30-130	12.9	30	
Indeno(1,2,3-cd)pyrene	0.16	0.00314	"	0.163	95667	98.1	30-130	7.8	30	
Chrysene	0.117	0.00312	"	0.163	95667	71.7	30-130	12	30	
2-Methylnaphthalene	0.101	0.00323	"	0.163	0.00899	56.4	30-130	12.9	30	
Naphthalene	0.0981	0.00242	"	0.163	95667	60.1	30-130	14.9	30	
1-Methylnaphthalene	0.125	0.00182	"	0.163	0.0115	69.6	30-130	14.1	30	
Benzo(b)fluoranthene	0.0897	0.00293	"	0.163	0.00303	53.1	30-130	11.8	30	
Benzo(a)pyrene	0.118	0.00234	"	0.163	0.00382	70	30-130	12.6	30	
Benzo(a)anthracene	0.102	0.00247	"	0.163	95667	62.5	30-130	9.3	30	
Anthracene	0.112	0.00167	"	0.163	95667	68.7	30-130	14.8	30	
Benzo(k)fluoranthene	0.125	0.00219	"	0.163	95667	76.6	30-130	18.1	30	
Acenaphthene	0.0996	0.00152	"	0.163	0.00329	59	30-130	9.9	30	
Surrogate: Nitrobenzene-d5	53.3		"	0.326	174	53.3	29-110			
Surrogate: 4-Terphenyl-d14	83.1		"	0.326	281	83.1	33-122			
Surrogate: 2-Fluorobiphenyl	69.3		"	0.326	230	69.3	33-115			

MS (L 95667-MS-L612439)		Source: 95667			Prepared: 04/23/2022 Analyzed: 04/26/2022					
Benzo(a)anthracene	0.112	0.00247	mg/Kg	0.166	95667	67.4	30-130			
Anthracene	0.13	0.00167	"	0.166	95667	78.3	30-130			
Acenaphthene	0.11	0.00152	"	0.166	0.00329	64.2	30-130			
2-Methylnaphthalene	0.115	0.00323	"	0.166	0.00899	63.8	30-130			
Benzo(k)fluoranthene	0.15	0.00219	"	0.166	95667	90.3	30-130			
1-Methylnaphthalene	0.144	0.00182	"	0.166	0.0115	79.8	30-130			
Naphthalene	0.114	0.00242	"	0.166	95667	68.6	30-130			

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Fremont Environmental
 8305 6th St, PO Box 1289
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Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612439 - 3550B

MS (L 95667-MS-L612439)	Source: 95667		Prepared: 04/23/2022 Analyzed: 04/26/2022							
Benzo(a)pyrene	0.134	0.00234	mg/Kg	0.166	0.00382	78.4	30-130			
Benzo(b)fluoranthene	0.101	0.00293	"	0.166	0.00303	59	30-130			
Indeno(1,2,3-cd)pyrene	0.173	0.00314	"	0.166	95667	104	30-130			
Fluorene	0.127	0.00143	"	0.166	0.00512	73.4	30-130			
Fluoranthene	0.138	0.00197	"	0.166	95667	83.1	30-130			
Dibenz(a,h)anthracene	0.215	0.00307	"	0.166	95667	130	30-130			
Chrysene	0.132	0.00312	"	0.166	95667	79.5	30-130			
Pyrene	0.148	0.00322	"	0.166	0.00779	84.4	30-130			
Surrogate: 4-Terphenyl-d14	91.5		"	0.332	281	91.5	33-122			
Surrogate: 2-Fluorobiphenyl	77.1		"	0.332	230	77.1	33-115			
Surrogate: Nitrobenzene-d5	57.8		"	0.332	174	57.8	29-110			

LCS (LCS-L612439)	Prepared: 04/23/2022 Analyzed: 04/26/2022									
Indeno(1,2,3-cd)pyrene	0.152	0.000627	mg/Kg	0.167		91	30-130			
Benzo(b)fluoranthene	0.135	0.000585	"	0.167		80.8	30-130			
Anthracene	0.14	0.000334	"	0.167		83.8	30-130			
Benzo(a)anthracene	0.112	0.000493	"	0.167		67	30-130			
Benzo(a)pyrene	0.121	0.000468	"	0.167		72.4	30-130			
Benzo(k)fluoranthene	0.116	0.000437	"	0.167		69.4	30-130			
Chrysene	0.125	0.000624	"	0.167		74.8	30-130			
Dibenz(a,h)anthracene	0.165	0.000614	"	0.167		98.8	30-130			
1-Methylnaphthalene	0.121	0.000364	"	0.167		72.4	30-130			
Fluorene	0.113	0.000286	"	0.167		67.6	30-130			
2-Methylnaphthalene	0.113	0.000645	"	0.167		67.6	30-130			
Naphthalene	0.113	0.000484	"	0.167		67.6	30-130			
Pyrene	0.139	0.000643	"	0.167		83.2	30-130			
Fluoranthene	0.139	0.000394	"	0.167		83.2	30-130			

Origins Laboratory, Inc.



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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612439 - 3550B

LCS (LCS-L612439)

Prepared: 04/23/2022 Analyzed: 04/26/2022

Acenaphthene	0.11	0.000304	mg/Kg	0.167		65.8	30-130			
Surrogate: 4-Terphenyl-d14	109		"	0.333		109	33-122			
Surrogate: 2-Fluorobiphenyl	87.3		"	0.333		87.3	33-115			
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			

LRB (LRB-L612439)

Prepared: 04/23/2022 Analyzed: 04/26/2022

Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	87		"	0.333		87	33-115			
Surrogate: 4-Terphenyl-d14	90.9		"	0.333		90.9	33-122			
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			

Origins Laboratory, Inc.



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

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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612367 - 3050B

MSD (L 95797-MSD-L612367)		Source: 95797			Prepared: 04/22/2022 Analyzed: 04/25/2022					
Nickel	10	0.0633	mg/Kg	2.47	6.75	132	75-125	0	80	*
Barium	173	0.042	"	4.94	74.7	NR	75-125	4.1	80	*
Cadmium	0.586	0.0259	"	0.494	0.117	95	75-125	4.5	80	
Copper	7.92	0.0806	"	2.47	6	78	75-125	6.6	80	
Lead	9.57	0.031	"	2.47	6.19	137	75-125	15	80	*
Silver	0.495	0.0067	"	0.494	0.0207	96	75-125	3	80	
Zinc	55.4	0.534	"	24.7	28.7	108	75-125	5.9	80	
Arsenic	5.24	0.0855	"	2.47	3.26	80	75-125	18.5	80	
Selenium	3.53	0.103	"	4.94	0.302	65	75-125	3.3	80	*

MS (L 95797-MS-L612367)		Source: 95797			Prepared: 04/22/2022 Analyzed: 04/25/2022					
Copper	7.41	0.0806	mg/Kg	2.35	6	60	75-125			*
Silver	0.48	0.0067	"	0.469	0.0207	98	75-125			
Selenium	3.65	0.103	"	4.69	0.302	71	75-125			*
Nickel	10	0.0633	"	2.35	6.75	139	75-125			*
Lead	8.23	0.031	"	2.35	6.19	87	75-125			
Arsenic	4.35	0.0855	"	2.35	3.26	46	75-125			*
Cadmium	0.56	0.0259	"	0.469	0.117	94	75-125			
Barium	166	0.042	"	4.69	74.7	NR	75-125			*
Zinc	52.2	0.534	"	23.5	28.7	100	75-125			

LCS (LCS-L612367)		Prepared: 04/22/2022 Analyzed: 04/25/2022								
Arsenic	2.46	0.0855	mg/Kg	2.5		98	80-120			
Barium	4.84	0.042	"	5		97	80-120			
Cadmium	0.48	0.0259	"	0.5		96	80-120			
Copper	2.2	0.0806	"	2.5		88	80-120			
Lead	2.36	0.031	"	2.5		94	80-120			

Origins Laboratory, Inc.



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

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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612367 - 3050B

LCS (LCS-L612367)

Prepared: 04/22/2022 Analyzed: 04/25/2022

Nickel	2.28	0.0633	mg/Kg	2.5		91	80-120			
Selenium	4.61	0.103	"	5		92	80-120			
Zinc	23.1	0.534	"	25		92	80-120			
Silver	0.482	0.0067	"	0.5		96	80-120			

LRB (LRB-L612367)

Prepared: 04/22/2022 Analyzed: 04/25/2022

Barium	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Arsenic	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			

Origins Laboratory, Inc.



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

Paul Henehan
 Project Number: C022-010
 Project: GWOC - Schmunk

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L612872 -										
DUP (L 95662-DUP)		Source: 95662			Prepared: Analyzed: 04/26/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		95662		-	0	20	
MS (L 95662-MS)		Source: 95662			Prepared: Analyzed: 04/26/2022					
Chromium, Hexavalent	6.52	0.245	mg/Kg	8.07	95662	81	75-125			
LCS (LCS)		Prepared: Analyzed: 04/26/2022								
Chromium, Hexavalent	7.7	0.244	mg/Kg	8		96	75-125			
LRB (LRB)		Prepared: Analyzed: 04/26/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-010
Project: GWOC - Schmunk

Notes and Definitions

U Sample is Non-Detect.

R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/27/22 14:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
F-1	2204313-01	Soil	04/20/22 09:45	04/20/22 15:30
W-1	2204313-02	Soil	04/20/22 09:45	04/20/22 15:30
W-2	2204313-03	Soil	04/20/22 11:45	04/20/22 15:30
W-3	2204313-04	Soil	04/20/22 11:00	04/20/22 15:30
W-4	2204313-05	Soil	04/20/22 13:15	04/20/22 15:30
W-5	2204313-06	Soil	04/20/22 13:30	04/20/22 15:30

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

2204313

S₂

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

Client: Fremont Environmental Project Manager: Paul Henehan
 Address: P.O Box 1289 E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com Wayne.A@fremontenv.com
 City/State/Zip: Wellington, CO 80549 Bill to:
 Phone: 303-956-8714 Project Name: Schwabach Pond
 Sampler Name: Wayne Austin 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 - 915	BTEX - 910	GRO	DRO/ORO	SAR	EC	pH		Boron	PAH - 915		
1	F-1	4/20	9:45																					
2	W-1	"	9:45											X	X	X								
3	W-2	"	11:45											X	X	X								
4	W-3	"	11:00											X	X	X								
5																								
6	W-4	"	1:15											X	X	X								
7																								
8	W-5	"	1:30											X	X	X								
9																								
10																								

Relinquished by: <u>Wayne Austin</u>	Date/Time: <u>4/20 @ 3:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/20 @ 1:30</u>	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: <u>4.1</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes: <u>OPERATE</u> <u>TURNS</u> <u>AROUND</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

2204313

S₂

2204313

Sample Receipt Checklist

S2 Work Order# _____

Client: Fremont Client Project ID: Schmuaw Pad

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.	-			on ICE
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?	-			Sameday
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			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
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.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	

Additional Comments (if any):

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


Custodian Printed Name

4.20.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/27/22 14:57

F-1
2204313-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/20/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFD0443	04/20/22	04/20/22	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: **04/20/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		94.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/20/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFD0444	04/20/22	04/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/20/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		104 %		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: Schmuk Pad
 Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 04/27/22 14:57

F-1
2204313-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/20/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0458	04/21/22	04/26/22	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: **04/20/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		34.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		37.6 %	40-150		"	"	"	"	

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:
04/27/22 14:57

W-1
2204313-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/20/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0443	04/20/22	04/20/22	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: **04/20/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		93.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/20/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0444	04/20/22	04/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/20/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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:
 04/27/22 14:57

W-1
2204313-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/20/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0458	04/21/22	04/26/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	0.00766	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	0.00999	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	0.0180	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	0.00957	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	0.0177	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	0.00589	0.00500	"	"	"	"	"	"	"
Pyrene	0.0137	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **04/20/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		59.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.7 %	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: Schmuk Pad
Project Number: CO22-010
Project Manager: Paul Henchan

Reported:
04/27/22 14:57

W-2
2204313-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/20/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0443	04/20/22	04/20/22	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: **04/20/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		93.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/20/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0444	04/20/22	04/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/20/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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:
 04/27/22 14:57

W-2
2204313-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/20/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0458	04/21/22	04/26/22	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: **04/20/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.3 %	40-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/27/22 14:57

W-3
2204313-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0443	04/20/22	04/20/22	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: **04/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		94.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0444	04/20/22	04/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
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Project: Schmuk Pad
 Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 04/27/22 14:57

W-3
2204313-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0458	04/21/22	04/26/22	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: **04/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.9 %	40-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/27/22 14:57

W-4
2204313-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/20/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0443	04/20/22	04/20/22	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	33	0.50	"	"	"	"	"	"	

Date Sampled: **04/20/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		93.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		124 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/20/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	140	50	mg/kg	1	BFD0444	04/20/22	04/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/20/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/27/22 14:57

W-4
2204313-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/20/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0458	04/21/22	04/26/22	EPA 8270D SIM	
Anthracene	0.0941	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	0.0167	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	0.0623	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	0.118	0.00500	"	"	"	"	"	"	"

Date Sampled: **04/20/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		52.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.6 %	40-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/27/22 14:57

W-5
2204313-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/20/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0443	04/20/22	04/20/22	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: **04/20/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		94.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/20/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0444	04/20/22	04/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/20/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/27/22 14:57

W-5
2204313-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/20/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0458	04/21/22	04/26/22	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: **04/20/22 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.3 %	40-150		"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/27/22 14:57

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 BFD0444 - EPA 3550A

Blank (BFD0444-BLK1)

Prepared & Analyzed: 04/20/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFD0444-BS1)

Prepared & Analyzed: 04/20/22

C10-C28 (DRO)	414	50	mg/kg	500	32.2	70.5	70-130			
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Matrix Spike (BFD0444-MS1)

Source: 2204313-01

Prepared & Analyzed: 04/20/22

C10-C28 (DRO)	385	50	mg/kg	500	32.2	70.5	70-130			
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Matrix Spike Dup (BFD0444-MSD1)

Source: 2204313-01

Prepared: 04/20/22 Analyzed: 04/21/22

C10-C28 (DRO)	394	50	mg/kg	500	32.2	72.4	70-130	2.52	20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/27/22 14:57

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

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

Batch BFD0458 - EPA 5030 Soil MS

Blank (BFD0458-BLK1)

Prepared: 04/21/22 Analyzed: 04/25/22

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>0.0268</i>		"	<i>0.0333</i>		<i>80.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0240</i>		"	<i>0.0333</i>		<i>72.1</i>	<i>40-150</i>			

LCS (BFD0458-BS1)

Prepared: 04/21/22 Analyzed: 04/25/22

Acenaphthene	0.0383	0.00500	mg/kg	0.0333	115	31-137
Anthracene	0.0343	0.00500	"	0.0333	103	30-120
Benzo (a) anthracene	0.0351	0.00500	"	0.0333	105	30-120
Benzo (a) pyrene	0.0365	0.00500	"	0.0333	109	30-120
Benzo (b) fluoranthene	0.0378	0.00500	"	0.0333	113	30-120
Benzo (k) fluoranthene	0.0381	0.00500	"	0.0333	114	30-120
Chrysene	0.0358	0.00500	"	0.0333	107	30-120
Dibenz (a,h) anthracene	0.0381	0.00500	"	0.0333	114	30-120
Fluoranthene	0.0338	0.00500	"	0.0333	101	30-120
Fluorene	0.0377	0.00500	"	0.0333	113	30-120
Indeno (1,2,3-cd) pyrene	0.0298	0.00500	"	0.0333	89.3	30-120
Pyrene	0.0369	0.00500	"	0.0333	111	35-142
1-Methylnaphthalene	0.0360	0.00500	"	0.0333	108	35-142
2-Methylnaphthalene	0.0359	0.00500	"	0.0333	108	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0341</i>		"	<i>0.0333</i>	<i>102</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0354</i>		"	<i>0.0333</i>	<i>106</i>	<i>40-150</i>

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Fremont Environmental
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Wellington CO, 80549

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

Reported:
04/27/22 14:57

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 BFD0458 - EPA 5030 Soil MS

Matrix Spike (BFD0458-MS1)	Source: 2204257-01			Prepared: 04/21/22 Analyzed: 04/25/22						
Acenaphthene	0.0248	0.00500	mg/kg	0.0333	ND	74.3	31-137			
Anthracene	0.0261	0.00500	"	0.0333	ND	78.4	30-120			
Benzo (a) anthracene	0.0256	0.00500	"	0.0333	ND	76.8	30-120			
Benzo (a) pyrene	0.0274	0.00500	"	0.0333	ND	82.3	30-120			
Benzo (b) fluoranthene	0.0285	0.00500	"	0.0333	ND	85.5	30-120			
Benzo (k) fluoranthene	0.0288	0.00500	"	0.0333	ND	86.3	30-120			
Chrysene	0.0262	0.00500	"	0.0333	ND	78.7	30-120			
Dibenz (a,h) anthracene	0.0264	0.00500	"	0.0333	ND	79.2	30-120			
Fluoranthene	0.0265	0.00500	"	0.0333	ND	79.6	30-120			
Fluorene	0.0348	0.00500	"	0.0333	ND	104	30-120			
Indeno (1,2,3-cd) pyrene	0.0206	0.00500	"	0.0333	ND	61.9	30-120			
Pyrene	0.0269	0.00500	"	0.0333	ND	80.7	35-142			
1-Methylnaphthalene	0.0292	0.00500	"	0.0333	ND	87.5	15-130			
2-Methylnaphthalene	0.0280	0.00500	"	0.0333	ND	84.0	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0259</i>		<i>"</i>	<i>0.0333</i>		<i>77.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0274</i>		<i>"</i>	<i>0.0333</i>		<i>82.2</i>	<i>40-150</i>			

Matrix Spike Dup (BFD0458-MSD1)	Source: 2204257-01			Prepared: 04/21/22 Analyzed: 04/25/22						
Acenaphthene	0.0245	0.00500	mg/kg	0.0333	ND	73.6	31-137	0.946	30	
Anthracene	0.0290	0.00500	"	0.0333	ND	87.1	30-120	10.5	30	
Benzo (a) anthracene	0.0289	0.00500	"	0.0333	ND	86.7	30-120	12.1	30	
Benzo (a) pyrene	0.0233	0.00500	"	0.0333	ND	70.0	30-120	16.2	30	
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333	ND	72.8	30-120	16.1	30	
Benzo (k) fluoranthene	0.0213	0.00500	"	0.0333	ND	63.8	30-120	30.0	30	
Chrysene	0.0220	0.00500	"	0.0333	ND	65.9	30-120	17.7	30	
Dibenz (a,h) anthracene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	25.7	30	
Fluoranthene	0.0198	0.00500	"	0.0333	ND	59.5	30-120	28.9	30	
Fluorene	0.0259	0.00500	"	0.0333	ND	77.8	30-120	29.2	30	
Indeno (1,2,3-cd) pyrene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	11.7	30	
Pyrene	0.0205	0.00500	"	0.0333	ND	61.4	35-142	27.1	30	
1-Methylnaphthalene	0.0181	0.00500	"	0.0333	ND	54.3	15-130	46.8	50	
2-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.7	15-130	37.0	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0181</i>		<i>"</i>	<i>0.0333</i>		<i>54.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0204</i>		<i>"</i>	<i>0.0333</i>		<i>61.1</i>	<i>40-150</i>			

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:
04/27/22 14:57

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

April 29, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Schmuk Pad

Work Order #2204328

Enclosed are the results of analyses for samples received by Summit Scientific on 04/21/22 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/29/22 08:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#17	2204328-01	Soil	04/21/22 15:10	04/21/22 16:15
#4	2204328-02	Soil	04/21/22 08:00	04/21/22 16:15
#5	2204328-03	Soil	04/21/22 08:10	04/21/22 16:15
#2	2204328-04	Soil	04/21/22 08:20	04/21/22 16:15
#15	2204328-05	Soil	04/21/22 14:30	04/21/22 16:15
#16	2204328-06	Soil	04/21/22 14:40	04/21/22 16:15
#14	2204328-07	Soil	04/21/22 13:15	04/21/22 16:15
#6	2204328-08	Soil	04/21/22 09:30	04/21/22 16:15
#7	2204328-09	Soil	04/21/22 11:30	04/21/22 16:15
#8	2204328-10	Soil	04/21/22 11:15	04/21/22 16:15
#9	2204328-11	Soil	04/21/22 11:00	04/21/22 16:15
#10	2204328-12	Soil	04/21/22 10:30	04/21/22 16:15
#11	2204328-13	Soil	04/21/22 10:00	04/21/22 16:15
#12	2204328-14	Soil	04/21/22 09:45	04/21/22 16:15
#13	2204328-15	Soil	04/21/22 13:00	04/21/22 16:15
#17	2204328-16	Soil	04/21/22 14:50	04/21/22 16:15

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.

2204328.1

Summit Scientific

S₂

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

Client: Fremont Environmental Project Manager: Paul Henehan
 Address: P.O Box 1289 E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com
 City/State/Zip: Wellington, CO 80549 Bill to: *Wayne A. Fremont Env. Corp*
 Phone: 303-956-8714 Project Name: *Schmunk Pad*
 Sampler Name: *Wayne A* Project Number: *C022-010*

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Notes:
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN-915	BTEX - 910	GRO	DRO/ORO	SAR	EC	pH	Boron	
1	#17 #17	4-21	8:30	1												X	X	X	X		
2	#4	4-21	8:10	1												X	X	X	X		
3	#5	4-21	8:10	1																	
4	#2	4-21	8:20	1																	
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <i>Wayne Austin</i>	Date/Time: 4-21 4:15	Received by: <i>[Signature]</i>	Date/Time: 4/22 1615	Turn Around Time (Check) Same Day ___ 72 hours ___ 24 hours Standard <input checked="" type="checkbox"/> 48 hours ___ Sample Integrity: Temperature Upon Receipt: <i>3.6</i> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Summit Scientific

2204 328-2

S₂

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

Page 2 of 3

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to:

Phone: 303-956-8714

Project Name: Schwinn Pad

Sampler Name: Wayne A

Project Number: C-022-010

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Notes:					
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN-915	BTEX - 910	GRO	DRO/ORO	SAR	EC	pH	Boron		PAH - 915				
1	# 15	4-21	2:30	2																						
2	# 16	4-21	2:40	2																						
3	# 14	4-21	1:15	2																						
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Relinquished by: <u>Wayne Abovi</u>	Date/Time: <u>4-21 4:15</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/21/22 1615</u>	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: <u>36</u> Samples Intact: <input checked="" type="checkbox"/> Yes No
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

S₂

3/3
Sample Receipt Checklist

S2 Work Order# 2204328

Client: Fremont Client Project ID: Schmuck Pad

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

-


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

Temp (°C) 3.6 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.	-			on ice
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?	-			Same day
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			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
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.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	

Additional Comments (if any):

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


Custodian Printed Name

4-21-22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/29/22 08:18

#17
2204328-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/21/22 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.429	0.0100	mg/L	1	BFD0553	04/26/22	04/27/22	EPA 6020B	

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

Date Sampled: **04/21/22 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.8	0.0611	mg/L dry	1	BFD0497	04/22/22	04/27/22	EPA 6020B	
Magnesium	47.8	0.0611	"	"	"	"	"	"	
Sodium	63.4	0.0611	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/21/22 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.62	0.00100	units	1	BFD0607	04/27/22	04/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/21/22 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.8		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/21/22 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.722	0.0100	mmhos/cm	1	BFD0560	04/26/22	04/26/22	EPA 120.1	

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

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:
 04/29/22 08:18

#17
2204328-01 (Soil)

Summit Scientific

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

Date Sampled: **04/21/22 15:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.02		pH Units	1	BFD0559	04/26/22	04/26/22	EPA 9045D	

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:
04/29/22 08:18

#4
2204328-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/21/22 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.625	0.0100	mg/L	1	BFD0553	04/26/22	04/27/22	EPA 6020B	

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

Date Sampled: **04/21/22 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.1	0.0583	mg/L dry	1	BFD0497	04/22/22	04/27/22	EPA 6020B	
Magnesium	152	0.0583	"	"	"	"	"	"	
Sodium	154	0.0583	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/21/22 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.38	0.00100	units	1	BFD0607	04/27/22	04/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/21/22 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/21/22 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.02	0.0100	mmhos/cm	1	BFD0560	04/26/22	04/26/22	EPA 120.1	

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

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:
 04/29/22 08:18

#4
2204328-02 (Soil)

Summit Scientific

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

Date Sampled: **04/21/22 08:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.02		pH Units	1	BFD0559	04/26/22	04/26/22	EPA 9045D	

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:
04/29/22 08:18

#5
2204328-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/21/22 08:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.415	0.0100	mg/L	1	BFD0553	04/26/22	04/27/22	EPA 6020B	

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

Date Sampled: **04/21/22 08:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.6	0.0570	mg/L dry	1	BFD0497	04/22/22	04/27/22	EPA 6020B	
Magnesium	14.3	0.0570	"	"	"	"	"	"	
Sodium	19.7	0.0570	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/21/22 08:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.705	0.00100	units	1	BFD0607	04/27/22	04/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/21/22 08:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/21/22 08:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.383	0.0100	mmhos/cm	1	BFD0560	04/26/22	04/26/22	EPA 120.1	

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

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:
 04/29/22 08:18

#5
2204328-03 (Soil)

Summit Scientific

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

Date Sampled: **04/21/22 08:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.92		pH Units	1	BFD0559	04/26/22	04/26/22	EPA 9045D	

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:
04/29/22 08:18

#2
2204328-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/21/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.592	0.0100	mg/L	1	BFD0553	04/26/22	04/27/22	EPA 6020B	

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

Date Sampled: **04/21/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.1	0.0577	mg/L dry	1	BFD0497	04/22/22	04/27/22	EPA 6020B	
Magnesium	83.5	0.0577	"	"	"	"	"	"	
Sodium	114	0.0577	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/21/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.26	0.00100	units	1	BFD0607	04/27/22	04/27/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/21/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.6		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/21/22 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	mmhos/cm	1	BFD0560	04/26/22	04/26/22	EPA 120.1	

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

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:
 04/29/22 08:18

#2
2204328-04 (Soil)

Summit Scientific

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

Date Sampled: **04/21/22 08:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.86		pH Units	1	BFD0559	04/26/22	04/26/22	EPA 9045D	

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:
04/29/22 08:18

#15
2204328-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0470	04/21/22	04/21/22	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: **04/21/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0471	04/21/22	04/21/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.2 %	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: Schmuk Pad
 Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 04/29/22 08:18

#15
2204328-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/21/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0479	04/22/22	04/24/22	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: **04/21/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.7 %	40-150		"	"	"	"	

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:
 04/29/22 08:18

#16
2204328-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0470	04/21/22	04/21/22	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: **04/21/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0471	04/21/22	04/21/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/29/22 08:18

#16
2204328-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/21/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0479	04/22/22	04/24/22	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: **04/21/22 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.6 %	40-150		"	"	"	"	

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

Reported:
04/29/22 08:18

#14
2204328-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0470	04/21/22	04/21/22	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: **04/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0471	04/21/22	04/21/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Reported:
 04/29/22 08:18

#14
2204328-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0479	04/22/22	04/24/22	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: **04/21/22 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		62.8 %	40-150		"	"	"	"	

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

Reported:
04/29/22 08:18

#6
2204328-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0534	04/25/22	04/25/22	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: **04/21/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0535	04/25/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.7 %	30-150		"	"	"	"	

Summit Scientific

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

Reported:
04/29/22 08:18

#7
2204328-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0534	04/25/22	04/25/22	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: **04/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0535	04/25/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		120 %	30-150		"	"	"	"	

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

Reported:
04/29/22 08:18

#8
2204328-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0534	04/25/22	04/25/22	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: **04/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0535	04/25/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	30-150		"	"	"	"	

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PO Box 1289
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Project: Schmuk Pad
Project Number: CO22-010
Project Manager: Paul Henchan

Reported:
04/29/22 08:18

#9
2204328-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0534	04/25/22	04/26/22	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: **04/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0535	04/25/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

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

Reported:
04/29/22 08:18

#10
2204328-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0534	04/25/22	04/26/22	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: **04/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0535	04/25/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:30**

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

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

Reported:
04/29/22 08:18

#11
2204328-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0534	04/25/22	04/26/22	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: **04/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0535	04/25/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

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

Reported:
04/29/22 08:18

#12
2204328-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0534	04/25/22	04/26/22	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: **04/21/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0535	04/25/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 09:45**

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

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PO Box 1289
Wellington CO, 80549

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

Reported:
04/29/22 08:18

#13
2204328-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0534	04/25/22	04/26/22	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: **04/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0535	04/25/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

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

Reported:
04/29/22 08:18

#17
2204328-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/21/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0534	04/25/22	04/26/22	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: **04/21/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0535	04/25/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.0 %	30-150		"	"	"	"	

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

Reported:
04/29/22 08:18

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 BFD0470 - EPA 5030 Soil MS

Blank (BFD0470-BLK1)

Prepared & Analyzed: 04/21/22

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	0.0407		"	0.0400		102	50-150				
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150				
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.1	50-150				

LCS (BFD0470-BS1)

Prepared & Analyzed: 04/21/22

Benzene	0.0577	0.0020	mg/kg	0.0750		77.0	70-130				
Toluene	0.0590	0.0050	"	0.0750		78.7	70-130				
Ethylbenzene	0.0544	0.0050	"	0.0750		72.6	70-130				
m,p-Xylene	0.114	0.010	"	0.150		75.9	70-130				
o-Xylene	0.0651	0.0050	"	0.0750		86.8	70-130				
1,2,4-Trimethylbenzene	0.0600	0.0050	"	0.0750		80.0	70-130				
1,3,5-Trimethylbenzene	0.0562	0.0050	"	0.0750		75.0	70-130				
Naphthalene	0.0901	0.0038	"	0.0750		120	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0400		100	50-150				
Surrogate: Toluene-d8	0.0400		"	0.0400		99.9	50-150				
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150				

Matrix Spike (BFD0470-MS1)

Source: 2204328-05

Prepared: 04/21/22 Analyzed: 04/22/22

Benzene	0.0571	0.0020	mg/kg	0.0750	ND	76.2	70-130				
Toluene	0.0601	0.0050	"	0.0750	ND	80.1	70-130				
Ethylbenzene	0.0570	0.0050	"	0.0750	ND	76.0	70-130				
m,p-Xylene	0.119	0.010	"	0.150	ND	79.1	70-130				
o-Xylene	0.0672	0.0050	"	0.0750	ND	89.6	70-130				
1,2,4-Trimethylbenzene	0.0638	0.0050	"	0.0750	ND	85.1	70-130				
1,3,5-Trimethylbenzene	0.0586	0.0050	"	0.0750	ND	78.2	70-130				
Naphthalene	0.0761	0.0038	"	0.0750	ND	102	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0400		100	50-150				
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150				
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150				

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Fremont Environmental
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Wellington CO, 80549

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

Reported:
04/29/22 08:18

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 BFD0470 - EPA 5030 Soil MS

Matrix Spike Dup (BFD0470-MSD1)

Source: 2204328-05

Prepared: 04/21/22 Analyzed: 04/22/22

Benzene	0.0556	0.0020	mg/kg	0.0750	ND	74.1	70-130	2.77	30	
Toluene	0.0589	0.0050	"	0.0750	ND	78.5	70-130	2.02	30	
Ethylbenzene	0.0551	0.0050	"	0.0750	ND	73.5	70-130	3.37	30	
m,p-Xylene	0.115	0.010	"	0.150	ND	76.6	70-130	3.13	30	
o-Xylene	0.0656	0.0050	"	0.0750	ND	87.5	70-130	2.35	30	
1,2,4-Trimethylbenzene	0.0617	0.0050	"	0.0750	ND	82.3	70-130	3.34	30	
1,3,5-Trimethylbenzene	0.0574	0.0050	"	0.0750	ND	76.6	70-130	2.07	30	
Naphthalene	0.0708	0.0038	"	0.0750	ND	94.4	70-130	7.27	30	
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0400		99.2	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.5	50-150			

Batch BFD0534 - EPA 5030 Soil MS

Blank (BFD0534-BLK1)

Prepared: 04/25/22 Analyzed: 04/26/22

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	0.0420		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

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

Reported:
04/29/22 08:18

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 BFD0534 - EPA 5030 Soil MS

LCS (BFD0534-BS1)

Prepared: 04/25/22 Analyzed: 04/26/22

Benzene	0.0644	0.0020	mg/kg	0.0750		85.9	70-130			
Toluene	0.0670	0.0050	"	0.0750		89.4	70-130			
Ethylbenzene	0.0634	0.0050	"	0.0750		84.5	70-130			
m,p-Xylene	0.141	0.010	"	0.150		93.8	70-130			
o-Xylene	0.0692	0.0050	"	0.0750		92.3	70-130			
1,2,4-Trimethylbenzene	0.0681	0.0050	"	0.0750		90.8	70-130			
1,3,5-Trimethylbenzene	0.0654	0.0050	"	0.0750		87.2	70-130			
Naphthalene	0.0844	0.0038	"	0.0750		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0395		"	0.0400		98.7	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	50-150			

Matrix Spike (BFD0534-MS1)

Source: 2204325-01

Prepared: 04/25/22 Analyzed: 04/26/22

Benzene	0.0618	0.0020	mg/kg	0.0750	ND	82.4	70-130			
Toluene	0.0640	0.0050	"	0.0750	ND	85.3	70-130			
Ethylbenzene	0.0584	0.0050	"	0.0750	ND	77.8	70-130			
m,p-Xylene	0.131	0.010	"	0.150	ND	87.2	70-130			
o-Xylene	0.0650	0.0050	"	0.0750	ND	86.7	70-130			
1,2,4-Trimethylbenzene	0.0631	0.0050	"	0.0750	ND	84.2	70-130			
1,3,5-Trimethylbenzene	0.0604	0.0050	"	0.0750	ND	80.6	70-130			
Naphthalene	0.0886	0.0038	"	0.0750	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

Matrix Spike Dup (BFD0534-MSD1)

Source: 2204325-01

Prepared: 04/25/22 Analyzed: 04/26/22

Benzene	0.0674	0.0020	mg/kg	0.0750	ND	89.9	70-130	8.64	30	
Toluene	0.0702	0.0050	"	0.0750	ND	93.6	70-130	9.26	30	
Ethylbenzene	0.0654	0.0050	"	0.0750	ND	87.2	70-130	11.4	30	
m,p-Xylene	0.149	0.010	"	0.150	ND	99.2	70-130	12.8	30	
o-Xylene	0.0719	0.0050	"	0.0750	ND	95.9	70-130	10.1	30	
1,2,4-Trimethylbenzene	0.0709	0.0050	"	0.0750	ND	94.5	70-130	11.6	30	
1,3,5-Trimethylbenzene	0.0682	0.0050	"	0.0750	ND	91.0	70-130	12.1	30	
Naphthalene	0.0970	0.0038	"	0.0750	ND	129	70-130	9.06	30	
Surrogate: 1,2-Dichloroethane-d4	0.0408		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

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

Reported:
 04/29/22 08:18

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 BFD0471 - EPA 3550A

Blank (BFD0471-BLK1)

Prepared: 04/21/22 Analyzed: 04/22/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFD0471-BS1)

Prepared: 04/21/22 Analyzed: 04/22/22

C10-C28 (DRO)	476	50	mg/kg	500	95.2	70-130				
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Matrix Spike (BFD0471-MS1)

Source: 2204328-05

Prepared: 04/21/22 Analyzed: 04/22/22

C10-C28 (DRO)	476	50	mg/kg	500	11.1	92.9	70-130			
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Matrix Spike Dup (BFD0471-MSD1)

Source: 2204328-05

Prepared: 04/21/22 Analyzed: 04/22/22

C10-C28 (DRO)	404	50	mg/kg	500	11.1	78.6	70-130	16.3	20	
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Batch BFD0535 - EPA 3550A

Blank (BFD0535-BLK1)

Prepared & Analyzed: 04/25/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFD0535-BS1)

Prepared & Analyzed: 04/25/22

C10-C28 (DRO)	421	50	mg/kg	500	84.2	70-130				
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Matrix Spike (BFD0535-MS1)

Source: 2204325-01

Prepared & Analyzed: 04/25/22

C10-C28 (DRO)	454	50	mg/kg	500	43.3	82.1	70-130			
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Matrix Spike Dup (BFD0535-MSD1)

Source: 2204325-01

Prepared & Analyzed: 04/25/22

C10-C28 (DRO)	480	50	mg/kg	500	43.3	87.3	70-130	5.52	20	
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PO Box 1289
Wellington CO, 80549

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

Reported:
04/29/22 08:18

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 BFD0479 - EPA 5030 Soil MS

Blank (BFD0479-BLK1)

Prepared: 04/22/22 Analyzed: 04/24/22

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0296		"	0.0333		88.7	40-150			
Surrogate: Fluoranthene-d10	0.0268		"	0.0333		80.5	40-150			

LCS (BFD0479-BS1)

Prepared: 04/22/22 Analyzed: 04/24/22

Acenaphthene	0.0307	0.00500	mg/kg	0.0333		92.1	31-137			
Anthracene	0.0313	0.00500	"	0.0333		94.0	30-120			
Benzo (a) anthracene	0.0293	0.00500	"	0.0333		87.9	30-120			
Benzo (a) pyrene	0.0282	0.00500	"	0.0333		84.5	30-120			
Benzo (b) fluoranthene	0.0290	0.00500	"	0.0333		87.0	30-120			
Benzo (k) fluoranthene	0.0310	0.00500	"	0.0333		92.9	30-120			
Chrysene	0.0317	0.00500	"	0.0333		95.1	30-120			
Dibenz (a,h) anthracene	0.0283	0.00500	"	0.0333		84.9	30-120			
Fluoranthene	0.0317	0.00500	"	0.0333		95.2	30-120			
Fluorene	0.0311	0.00500	"	0.0333		93.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333		52.5	30-120			
Pyrene	0.0313	0.00500	"	0.0333		93.9	35-142			
1-Methylnaphthalene	0.0269	0.00500	"	0.0333		80.7	35-142			
2-Methylnaphthalene	0.0335	0.00500	"	0.0333		100	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0334		"	0.0333		100	40-150			
Surrogate: Fluoranthene-d10	0.0332		"	0.0333		99.5	40-150			

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

Reported:
04/29/22 08:18

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 BFD0479 - EPA 5030 Soil MS

Matrix Spike (BFD0479-MS1)	Source: 2204316-07			Prepared: 04/22/22 Analyzed: 04/24/22								
Acenaphthene	0.0225	0.00500	mg/kg	0.0333	ND	67.6	31-137					
Anthracene	0.0224	0.00500	"	0.0333	ND	67.3	30-120					
Benzo (a) anthracene	0.0225	0.00500	"	0.0333	ND	67.5	30-120					
Benzo (a) pyrene	0.0203	0.00500	"	0.0333	ND	61.0	30-120					
Benzo (b) fluoranthene	0.0198	0.00500	"	0.0333	ND	59.3	30-120					
Benzo (k) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120					
Chrysene	0.0223	0.00500	"	0.0333	ND	66.8	30-120					
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120					
Fluoranthene	0.0240	0.00500	"	0.0333	ND	72.0	30-120					
Fluorene	0.0233	0.00500	"	0.0333	ND	70.0	30-120					
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	41.9	30-120					
Pyrene	0.0235	0.00500	"	0.0333	ND	70.5	35-142					
1-Methylnaphthalene	0.0222	0.00500	"	0.0333	ND	66.6	15-130					
2-Methylnaphthalene	0.0255	0.00500	"	0.0333	ND	76.6	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>73.0</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0248</i>		<i>"</i>	<i>0.0333</i>		<i>74.3</i>	<i>40-150</i>					

Matrix Spike Dup (BFD0479-MSD1)	Source: 2204316-07			Prepared: 04/22/22 Analyzed: 04/25/22						
Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.3	31-137	3.45	30	
Anthracene	0.0221	0.00500	"	0.0333	ND	66.4	30-120	1.36	30	
Benzo (a) anthracene	0.0215	0.00500	"	0.0333	ND	64.5	30-120	4.52	30	
Benzo (a) pyrene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	2.01	30	
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	0.680	30	
Benzo (k) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	2.76	30	
Chrysene	0.0213	0.00500	"	0.0333	ND	63.8	30-120	4.70	30	
Dibenz (a,h) anthracene	0.0195	0.00500	"	0.0333	ND	58.5	30-120	3.37	30	
Fluoranthene	0.0228	0.00500	"	0.0333	ND	68.4	30-120	5.17	30	
Fluorene	0.0224	0.00500	"	0.0333	ND	67.3	30-120	3.95	30	
Indeno (1,2,3-cd) pyrene	0.0134	0.00500	"	0.0333	ND	40.1	30-120	4.28	30	
Pyrene	0.0221	0.00500	"	0.0333	ND	66.2	35-142	6.35	30	
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130	13.4	50	
2-Methylnaphthalene	0.0253	0.00500	"	0.0333	ND	76.0	15-130	0.723	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0237</i>		<i>"</i>	<i>0.0333</i>		<i>71.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0240</i>		<i>"</i>	<i>0.0333</i>		<i>72.0</i>	<i>40-150</i>			

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:
 04/29/22 08:18

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

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

Batch BFD0553 - EPA 3050B

Blank (BFD0553-BLK1)

Prepared: 04/26/22 Analyzed: 04/27/22

Boron ND 0.0100 mg/L

LCS (BFD0553-BS1)

Prepared: 04/26/22 Analyzed: 04/27/22

Boron 4.92 0.0100 mg/L 5.00 98.4 80-120

Duplicate (BFD0553-DUP1)

Source: 2204123-02

Prepared: 04/26/22 Analyzed: 04/27/22

Boron 0.388 0.0100 mg/L 0.396 2.05 20

Matrix Spike (BFD0553-MS1)

Source: 2204123-02

Prepared: 04/26/22 Analyzed: 04/27/22

Boron 5.31 0.0100 mg/L 5.00 0.396 98.2 75-125

Matrix Spike Dup (BFD0553-MSD1)

Source: 2204123-02

Prepared: 04/26/22 Analyzed: 04/27/22

Boron 5.11 0.0100 mg/L 5.00 0.396 94.3 75-125 3.76 25

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:
 04/29/22 08:18

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 BFD0497 - General Preparation

Blank (BFD0497-BLK1)

Prepared: 04/22/22 Analyzed: 04/27/22

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

LCS (BFD0497-BS1)

Prepared: 04/22/22 Analyzed: 04/27/22

Calcium	5.45	0.0500	mg/L wet	5.00		109	70-130			
Magnesium	5.61	0.0500	"	5.00		112	70-130			
Sodium	5.61	0.0500	"	5.00		112	70-130			

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:
 04/29/22 08:18

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 BFD0590 - General Preparation

Duplicate (BFD0590-DUP1)

Source: 2204305-01

Prepared & Analyzed: 04/27/22

% Solids	83.9		%		83.6			0.337		20	
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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:
 04/29/22 08:18

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

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

Batch BFD0560 - General Preparation

Blank (BFD0560-BLK1)

Prepared & Analyzed: 04/26/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFD0560-BS1)

Prepared & Analyzed: 04/26/22

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BFD0560-DUP1)

Source: 2204247-02

Prepared & Analyzed: 04/26/22

Specific Conductance (EC) 7.49 0.0100 mmhos/cm 7.73 3.17 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: Schmuk Pad
 Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 04/29/22 08:18

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 BFD0559 - General Preparation

LCS (BFD0559-BS1)

Prepared & Analyzed: 04/26/22

pH	9.13		pH Units	9.18	99.5	95-105
----	------	--	----------	------	------	--------

Duplicate (BFD0559-DUP1)

Source: 2204247-02

Prepared & Analyzed: 04/26/22

pH	8.01		pH Units	8.04	0.374	20
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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:
04/29/22 08:18

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

May 02, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Schmuk Pad

Work Order #2204354

Enclosed are the results of analyses for samples received by Summit Scientific on 04/22/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/02/22 10:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#18	2204354-01	Soil	04/22/22 10:20	04/22/22 16:00
#19	2204354-02	Soil	04/22/22 10:30	04/22/22 16:00
#20	2204354-03	Soil	04/22/22 10:45	04/22/22 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

2204354

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

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com *WAYNE@FREMONT ENV. COLO.*

City/State/Zip: Wellington, CO 80549

Bill to:

Phone: 303-956-8714

Project Name: *Schmunk PAO*

Sampler Name: *WAYNE ADSTW*

Project Number: *CO22-010*

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Notes:					
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN-915	BTEX - 910	GRO	DRO/ORO	SAR	EC	pH	Boron		PAH - 915				
1	<i>#18</i>	<i>4/22</i>	<i>10:00</i>	<i>2</i>																						
2	<i>#19</i>	<i>4/22</i>	<i>10:30</i>	<i>2</i>																						
3	<i>#20</i>	<i>4/22</i>	<i>10:45</i>	<i>2</i>																						
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Relinquished by: <i>WAYNE ADSTW</i>	Date/Time: <i>4/22 3:46</i>	Received by: <i>[Signature]</i>	Date/Time: <i>4/22 1600</i>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours Standard <input checked="" type="checkbox"/> 48 hours Sample Integrity: Temperature Upon Receipt: <i>0.7</i> Samples Intact: <input checked="" type="checkbox"/> Yes No
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

S₂

S2 Work Order# 2204354

Sample Receipt Checklist

Client: Fremont Client Project ID: Schmunk Pad

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

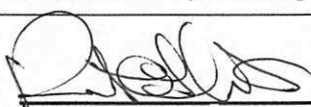
Matrix (Check all that apply) Air Soil/Solid Water Other

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.	-			on ICE
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?		-		
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			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
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.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	

Additional Comments (if any):

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


Custodian Printed Name

4-22-22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
05/02/22 10:17

#18
2204354-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/22/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/26/22	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: **04/22/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		78.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/22/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0557	04/26/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/22/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.4 %	30-150		"	"	"	"	

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

Reported:
05/02/22 10:17

#19
2204354-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/22/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/26/22	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: **04/22/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		77.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/22/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0557	04/26/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/22/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.6 %	30-150		"	"	"	"	

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

Reported:
05/02/22 10:17

#20
2204354-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/22/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0556	04/26/22	04/26/22	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: **04/22/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		81.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/22/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0557	04/26/22	04/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/22/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.4 %	30-150		"	"	"	"	

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

Reported:
05/02/22 10:17

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 BFD0556 - EPA 5030 Soil MS

Blank (BFD0556-BLK1)

Prepared & Analyzed: 04/26/22

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0343</i>		<i>"</i>	<i>0.0400</i>		<i>85.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

LCS (BFD0556-BS1)

Prepared & Analyzed: 04/26/22

Benzene	0.105	0.0020	mg/kg	0.100		105	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.215	0.010	"	0.200		108	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
Naphthalene	0.113	0.0038	"	0.100		113	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0335</i>		<i>"</i>	<i>0.0400</i>		<i>83.7</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>97.9</i>	<i>50-150</i>			

Matrix Spike (BFD0556-MS1)

Source: 2204354-01

Prepared & Analyzed: 04/26/22

Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130			
Toluene	0.107	0.0050	"	0.100	ND	107	70-130			
Ethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130			
m,p-Xylene	0.228	0.010	"	0.200	ND	114	70-130			
o-Xylene	0.109	0.0050	"	0.100	ND	109	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
Naphthalene	0.119	0.0038	"	0.100	ND	119	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0320</i>		<i>"</i>	<i>0.0400</i>		<i>80.1</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.2</i>	<i>50-150</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:
 05/02/22 10:17

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 BFD0556 - EPA 5030 Soil MS

Matrix Spike Dup (BFD0556-MSD1)	Source: 2204354-01			Prepared & Analyzed: 04/26/22							
Benzene	0.0922	0.0020	mg/kg	0.100	ND	92.2	70-130	13.0	30		
Toluene	0.0899	0.0050	"	0.100	ND	89.9	70-130	17.0	30		
Ethylbenzene	0.0974	0.0050	"	0.100	ND	97.4	70-130	15.5	30		
m,p-Xylene	0.194	0.010	"	0.200	ND	97.0	70-130	16.1	30		
o-Xylene	0.0926	0.0050	"	0.100	ND	92.6	70-130	16.7	30		
1,2,4-Trimethylbenzene	0.0913	0.0050	"	0.100	ND	91.3	70-130	17.8	30		
1,3,5-Trimethylbenzene	0.0887	0.0050	"	0.100	ND	88.7	70-130	19.6	30		
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130	12.7	30		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0319</i>		<i>"</i>	<i>0.0400</i>		<i>79.7</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.7</i>	<i>50-150</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:
 05/02/22 10:17

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFD0557 - EPA 3550A

Blank (BFD0557-BLK1)

Prepared & Analyzed: 04/26/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFD0557-BS1)

Prepared & Analyzed: 04/26/22

C10-C28 (DRO)	444	50	mg/kg	500	88.8	70-130				
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Matrix Spike (BFD0557-MS1)

Source: 2204354-01

Prepared & Analyzed: 04/26/22

C10-C28 (DRO)	445	50	mg/kg	500	19.5	85.0	70-130			
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Matrix Spike Dup (BFD0557-MSD1)

Source: 2204354-01

Prepared & Analyzed: 04/26/22

C10-C28 (DRO)	416	50	mg/kg	500	19.5	79.3	70-130	6.67	20	
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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:
05/02/22 10:17

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