

# FREMONT ENVIRONMENTAL INC.

May 23, 2023

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

Subject:       **Groundwater Data Submittal**  
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 Groundwater Data Submittal for the Schmunk Tank Battery site in Weld County, Colorado. The enclosed data describes soil and groundwater quality at the site during the recent quarterly sampling event.

During the March 2023 quarterly groundwater monitoring event, monitoring wells MW-15, MW-16 and MW-17 were installed to establish a southwestern point of compliance (POC) at the site. Soil samples were collected from the vadose zone in each boring; the laboratory results from these samples are summarized in Table 1 and the laboratory report is attached. Well logs from these wells are also attached.

The quarterly groundwater sampling and monitoring data are summarized in Tables 2 and 3. These data indicate that the groundwater flow direction is to the southwest and dissolved petroleum concentrations from 13 of the 17 wells were less than the Colorado Oil and Gas Conservation Commission's (COGCC's) Table 915-1 limits. As shown on Figure 4, MW-17 has benzene impacts greater than the COGCC Table 915-1 standard. This well was sampled on March 22, 2023 and April 26, 2023 to confirm the presence of benzene in the groundwater.

A southwestern POC has not been established; therefore, additional monitoring wells will be required further into the cultivated field. It is likely that these wells will be installed after the corn harvest, which will be in the fourth quarter of the year.

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

#### Attachments

Table 1 - Summary of Soil Chemistry  
Table 2 - Summary of Organic Groundwater Chemistry  
Table 3 - Summary of Inorganic Groundwater Chemistry

Figure 1 - Site Map  
Figure 2 - Site Location Map  
Figure 3 - Soil Chemistry Map  
Figure 4 - Inferred Groundwater Contours  
Figure 5 - Groundwater Chemistry  
Figure 6 - Proposed Monitoring Wells

Well Logs  
Laboratory Reports

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

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500		
MW-1 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-2 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-3 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-4 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-5 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-6 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-6 8 Ft	12/1/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-7 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-7 8 Ft	12/1/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-8 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-8 9 Ft	12/1/2022	9	<b>2.1</b>	<b>2.1</b>	<b>1.7</b>	<b>10</b>	<b>4.7</b>	<b>0.83</b>	<b>0.47</b>	<b>290</b>	<b>1100</b>	<b>110</b>
MW-9 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-10 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-11 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-12 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-13 6 Ft	12/1/2022	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-14 8 Ft	2/1/2023	8	<0.0020	<0.0050	<0.0050	0.025	<0.0050	<b>0.070</b>	<0.0038	3.3	<50	<50
MW-15 5FT	03/22/2023	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-16 5FT	03/22/2023	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	58	<50
MW-17 7FT	03/22/2023	7	<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 GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA  
PDC ENERGY INC.  
SCHMUNK PAD, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-010

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
COGCC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
MW-1	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	98.44	7.25	91.19	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.40	91.04	NP
MW-2	12/2/2022	<1.0	<1.0	4.2	<1.0	7.8	12	3.4	98.07	7.25	90.82	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.42	90.65	NP
MW-3	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	97.60	7.00	90.60	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.12	90.48	NP
MW-4	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	97.46	7.61	89.85	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.43	90.03	NP
MW-5	12/8/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	96.74	13.96	82.78	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.1	89.64	NP
MW-6	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	1.3	<1.0	96.65	7.22	89.43	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.33	89.32	NP
MW-7	12/2/2022	49	<1.0	6.1	29	2.3	14	3.6	95.76	12.68	83.08	NP
	12/8/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	1.1		NM	NM	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.37	88.39	NP
MW-8	12/2/2022	330	570	91	480	15	89	29	96.8	9.45	87.35	NP
	3/22/2023	480	47	55	300	19	68	22		7.31	89.49	NP
MW-9	12/2/2022	61	<1.0	<1.0	19	3.1	2.1	<1.0	96.74	9.53	87.21	NP
	3/22/2023	46	<1.0	<1.0	10	<1.0	2.7	<1.0		7.87	88.87	NP
MW-10	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	96.44	9.93	86.51	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.61	87.83	NP
MW-11	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	97.56	8.43	89.13	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		8.13	89.43	NP

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
COGCC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
MW-12	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	98.66	7.60	91.06	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.70	90.96	NP
MW-13	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.00	9.40	90.60	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		9.51	90.49	NP
MW-14	2/9/2023	<b>68</b>	4.8	9.9	42	1.9	12	4.1	95.33	NM	NM	NP
	3/22/2023	<b>11</b>	<1.0	1.3	5.6	<1.0	<1.0	<1.0		8.40	86.93	NP
MW-15	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	93.03	6.18	86.85	NP
MW-16	3/22/2023	<1.0	<1.0	3.5	6.6	<1.0	10	4.3	92.28	7.08	85.20	NP
MW-17	3/22/2023	<b>350</b>	<1.0	<1.0	<2.0	13	<1.0	<1.0	92.00	13.05	78.95	NP
	4/26/2023	<b>93</b>	<1.0	<1.0	<2.0	13	<1.0	<1.0		NM	NM	NP

Bold face values exceed the COGCC limits

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

NP - No measureable LNAPL

NA - Not Analyzed

**TABLE 3**  
**SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA**  
**PDC ENERGY INC.**  
**SCHMUNK PAD, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-010**

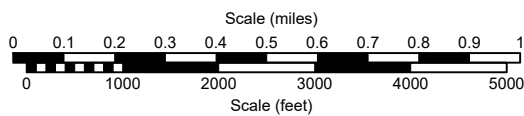
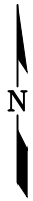
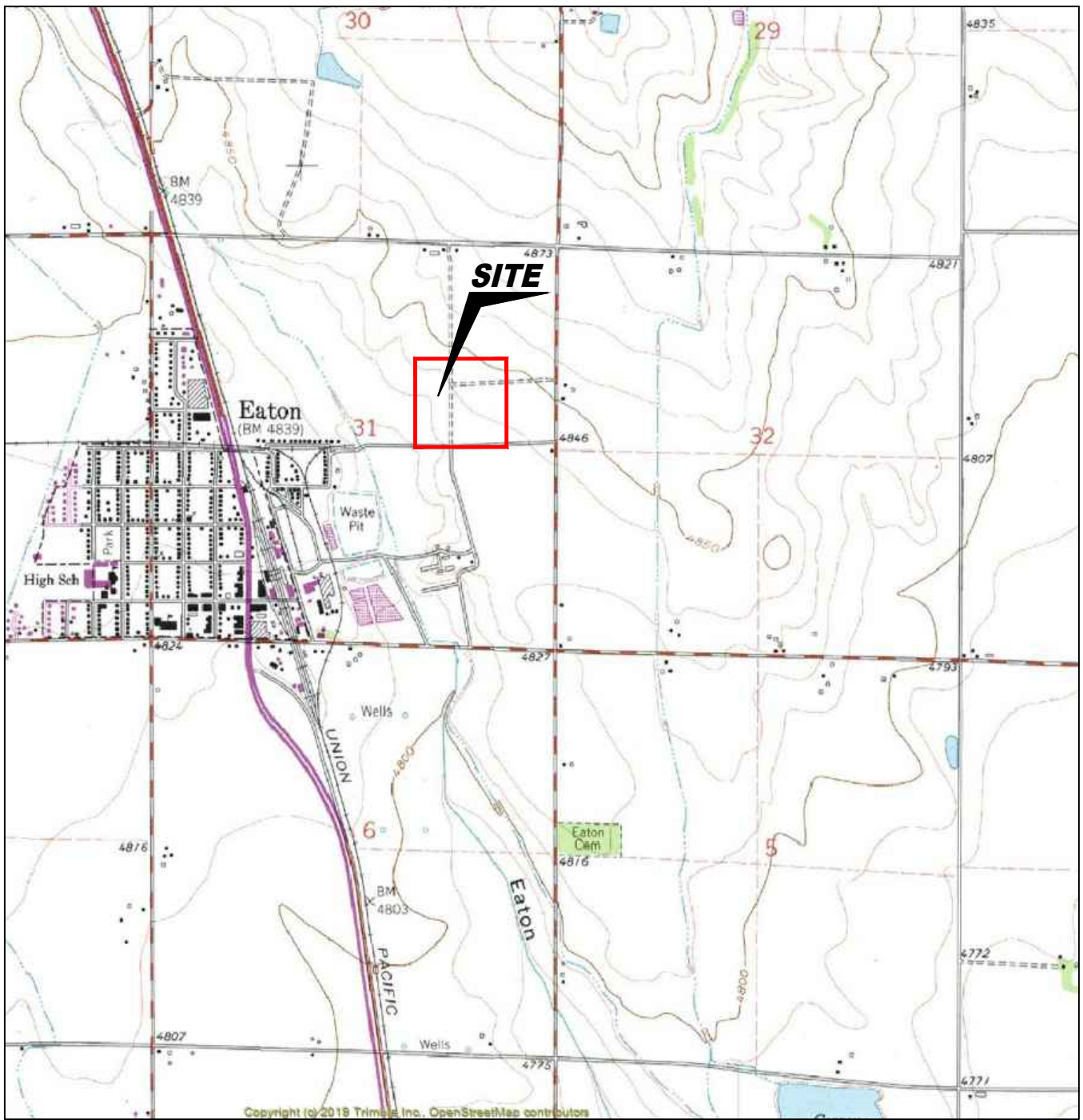
Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
COGCC Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
Site Specific Background		2788	60.2	1963
MW-1	12/2/2022	2180	94.0	1770
	3/22/2023	2230	60.2	1570
MW-2	12/2/2022	2150	103	1860
	03/22/2023	2220	61.2	1500
MW-3	12/2/2022	2110	98.4	1870
	03/22/2023	2160	59.2	1610
MW-4	12/2/2022	2140	100	1940
	03/22/2023	2260	61.6	1620
MW-5	12/8/2022	2140	29.2	554
	03/22/2023	1380	41.8	770
MW-6	12/2/2022	2170	110	1840
	03/22/2023	2290	64.6	1580
MW-7	12/8/2022	2120	95.6	1670
	3/22/2023	2320	78.4	1720
MW-8	12/2/2022	2070	115	1950
	03/22/2023	1460	55.4	744
MW-9	12/2/2022	2330	109	2090
	03/22/2023	2480	67	1800

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
COGCC Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
Site Specific Background		2788	60.2	1963
MW-10	12/2/2022	3640	107	3450
	03/22/2023	1260	37	649
MW-11	12/2/2022	2550	126	2250
	03/22/2023	2210	67.2	1320
MW-12	12/2/2022	2140	109	1840
	03/22/2023	2160	72	1570
MW-13	12/2/2022	2140	121	1870
	03/22/2023	2200	76.4	1600
MW-14	2/9/2023	<b>4240</b>	31.2	213
	03/22/2023	1760	52.6	1240
MW-15	03/22/2023	2380	81.8	1840
MW-16	03/22/2023	2540	84.2	1820
MW-17	3/22/2023	NS	NS	NS
	4/26/2023	1880	77.4	1120

Bold face values exceed the COGCC limits

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

MW-1 used as background well



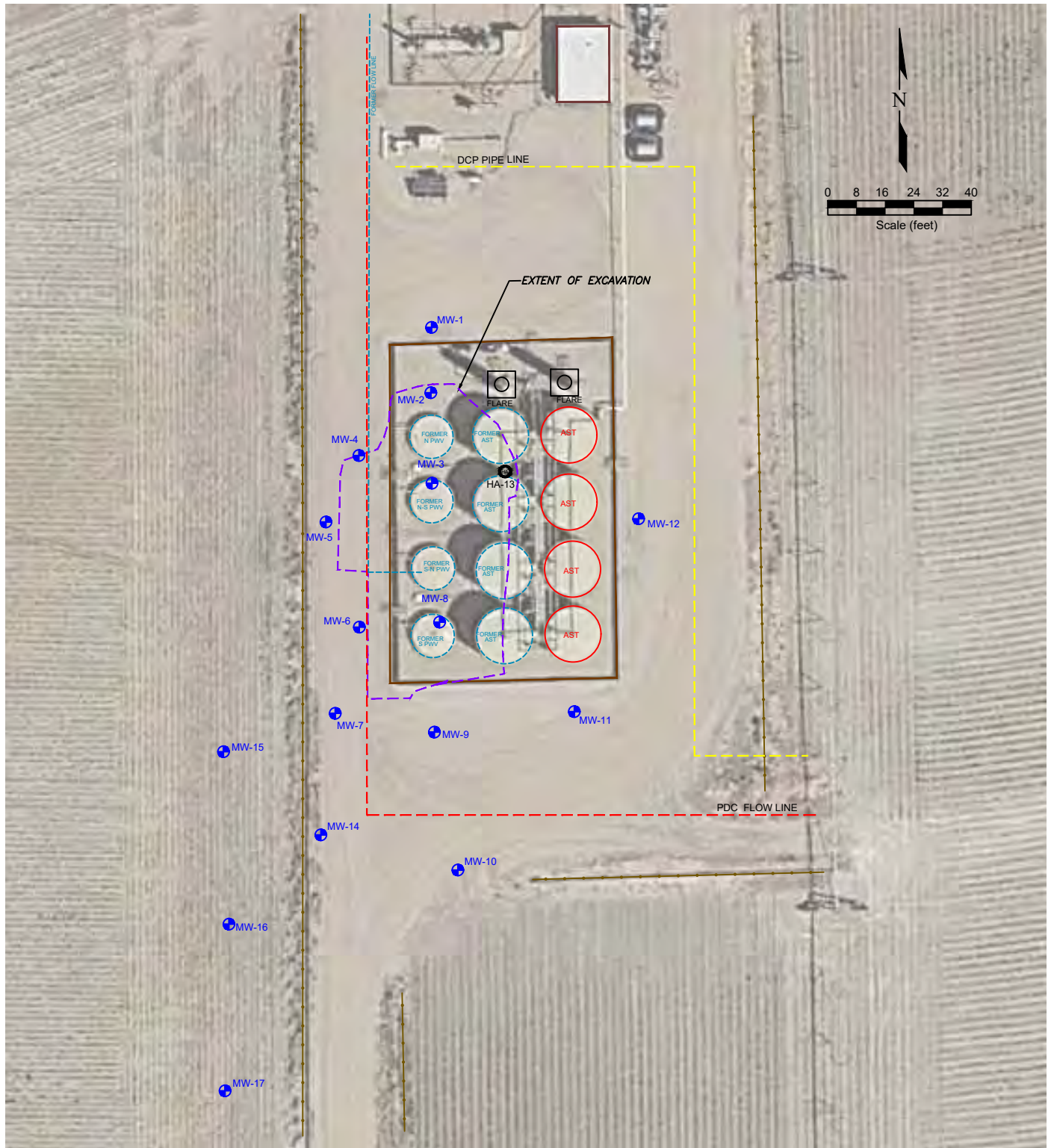
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

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

Project # <b>C022-010</b>	Facility # <b>436119</b>	Remediation # <b>22766</b>
Date <b>4/20/2023</b>	Reviewed by <b>PH</b>	Filename <b>22010T</b>





**LEGEND**

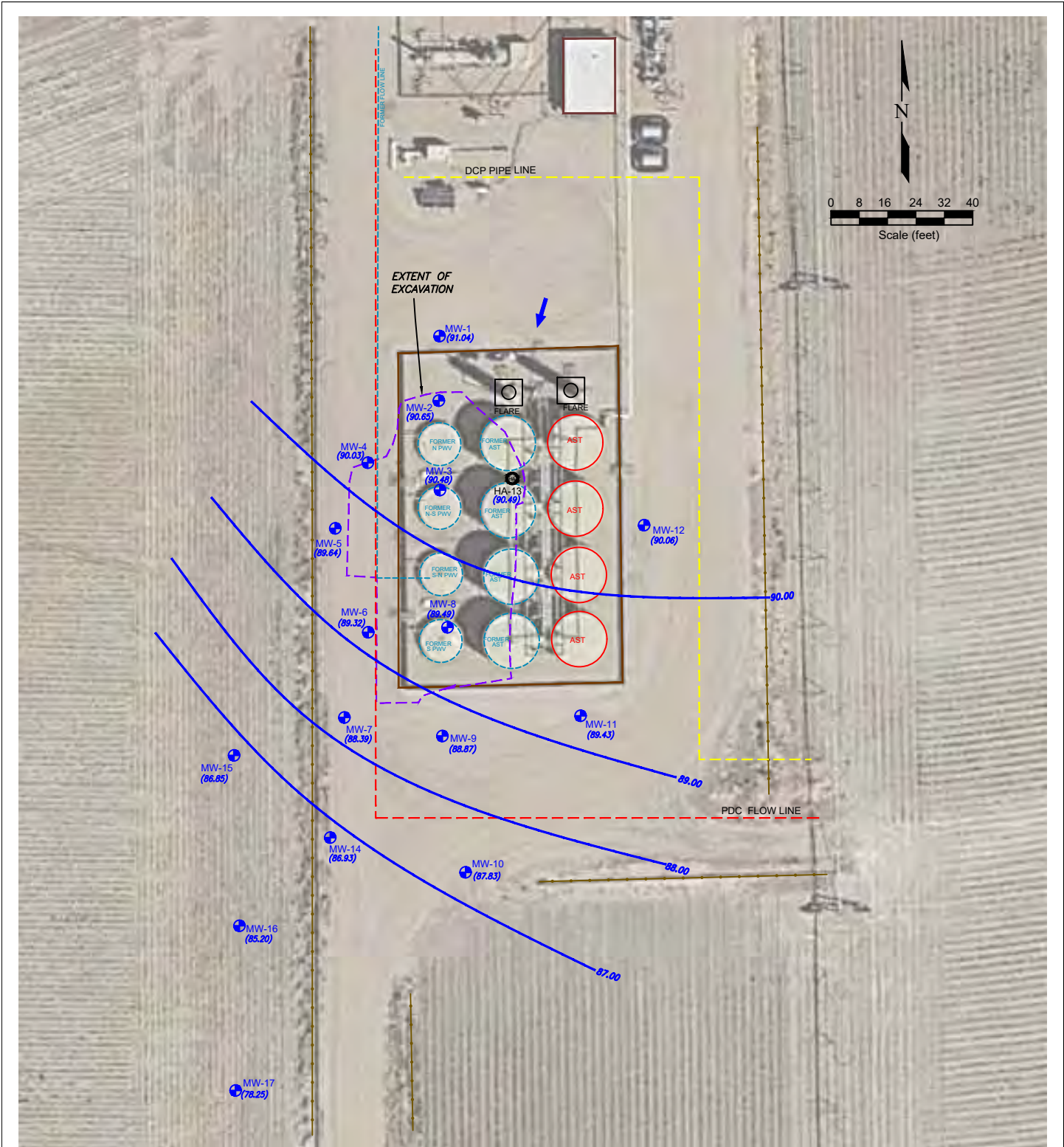
- ⊕ MONITORING WELL
- ⊕ ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- BUILDING BUILDING
- CONTAINMENT WALL CONTAINMENT WALL
- CONTAINMENT WALL CONTAINMENT WALL
- PDC FLOW LINE PDC FLOW LINE
- DCP PIPELINE DCP PIPELINE
- ⊕ HAND AUGURED WELLS

**Figure 2  
SITE MAP**

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

Project No. <b>C022-010</b>	Facility # <b>436119</b>	Remediation # <b>22766</b>
Date <b>4/20/2023</b>	Reviewed By <b>PH</b>	Filename <b>22010QP</b>





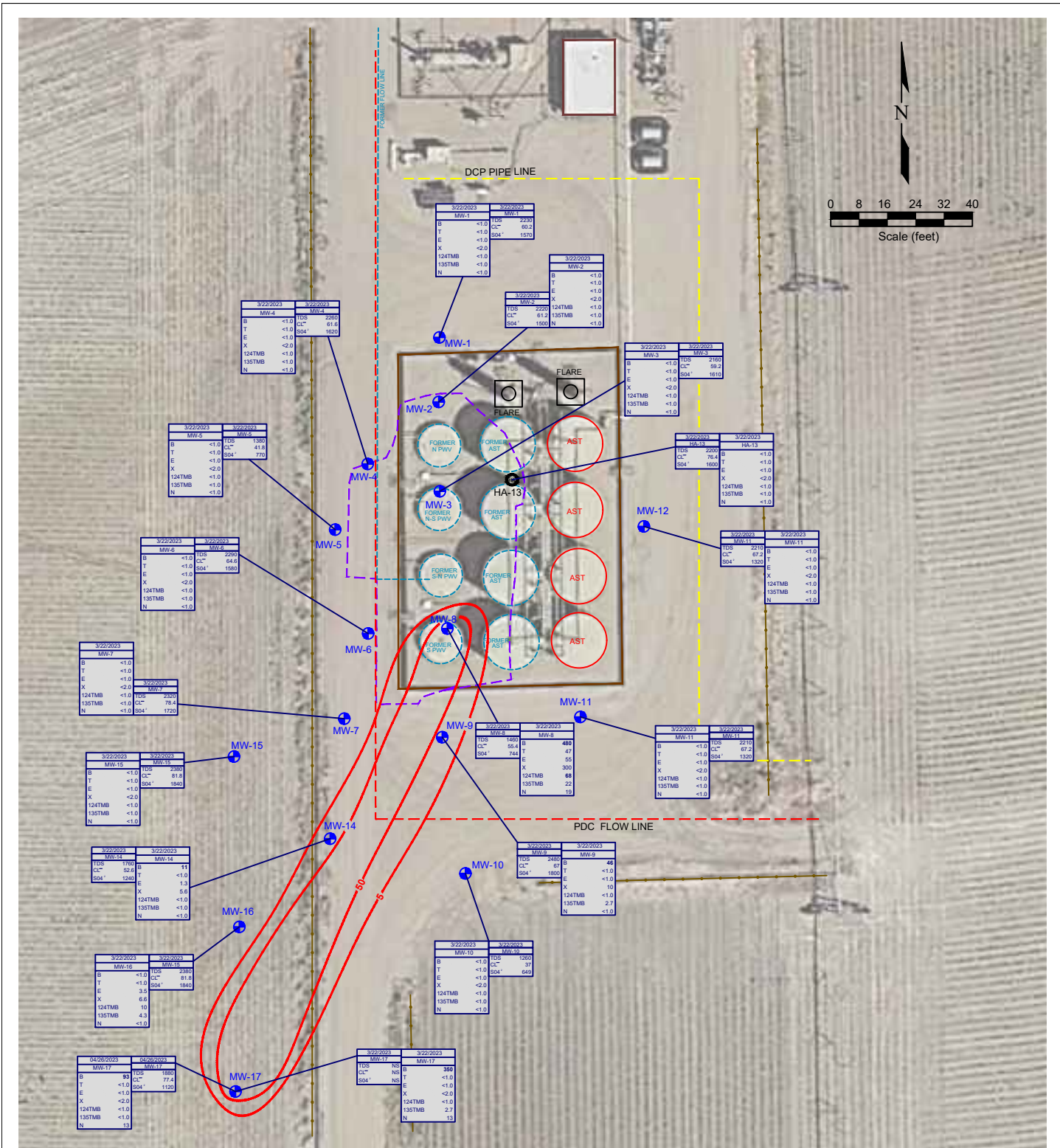
**LEGEND**

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

**Figure 3**  
**GROUNDWATER CONTOUR MAP**  
 March 22, 2023

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

Project No. <b>C022-010</b>	Facility # <b>436119</b>	Remediation # <b>22766</b>	
Date <b>4/20/2023</b>	Reviewed By <b>PH</b>	Filename <b>22010QP</b>	



**LEGEND**

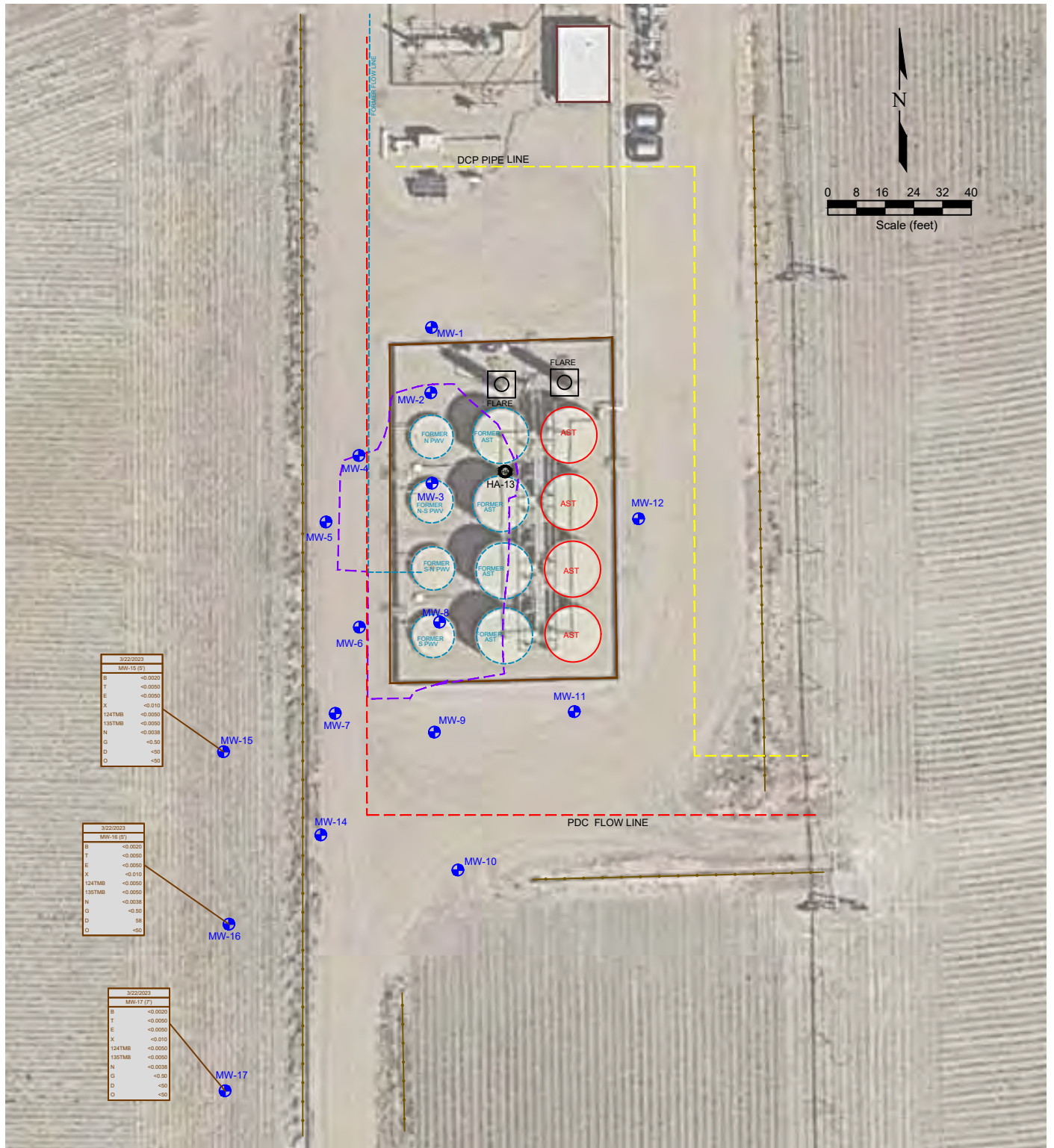
- Monitoring Well (Blue circle with 'M')
- Hand Augured Wells (Black circle with 'H')
- Above Ground Storage Tank (Red circle)
- Former Facility (Blue dashed outline)
- Former Building (Blue dashed outline)
- Building (Blue solid outline)
- Containment Wall (Red dashed line)
- Extent of Excavation (Red dashed line)
- DCP Pipeline (Yellow dashed line)
- PDC Flow Line (Red dashed line)

DATE SAMPLED	SAMPLE ID	TDS	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	TOTAL XYLENES (ug/L)	NAPHTHALENE (ug/L)	1,2,4-TRIMETHYLBENZENE (ug/L)	1,3,5-TRIMETHYLBENZENE (ug/L)
3/22/2023	MW-1	2290	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
3/22/2023	MW-2	1580	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-3	2290	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-4	1580	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-5	1580	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-6	2290	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-7	1580	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-8	2290	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-9	1580	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-10	2480	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-11	2210	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-12	1920	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-13	1580	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-14	1580	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-15	1940	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-16	1840	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	
3/22/2023	MW-17	1580	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	

**Figure 4**  
**GROUNDWATER CHEMISTRY MAP**  
 March 22, 2023 and April 26, 2023

**PDC Energy, Inc. ~ Schmunk EF Offsite Tank Battery #31**  
 SWNE Sec. 31, T7N, R65W, 6th PM  
 Weld County, Colorado  
 40.534297°, -104.701670°

Project No. <b>C022-010</b>	Facility # <b>436119</b>	Remediation # <b>22766</b>
Date <b>5/17/23</b>	Reviewed By <b>PH</b>	Filename <b>22010QP</b>



**LEGEND**

- MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- BUILDING BUILDING
- CONTAINMENT WALL
- EXTENT OF EXCAVATION
- CONTAINMENT WALL
- PDC FLOW LINE
- DCP PIPELINE

3/22/2023	
MW-15 (5')	
B	<0.0020
T	<0.0050
E	<0.0050
X	<0.010
124TMB	<0.0050
135TMB	<0.0050
N	<0.0038
G	<0.50
D	<50
O	<50

3/22/2023	
MW-16 (5')	
B	<0.0020
T	<0.0050
E	<0.0050
X	<0.010
124TMB	<0.0050
135TMB	<0.0050
N	<0.0038
G	<0.50
D	54
O	<50

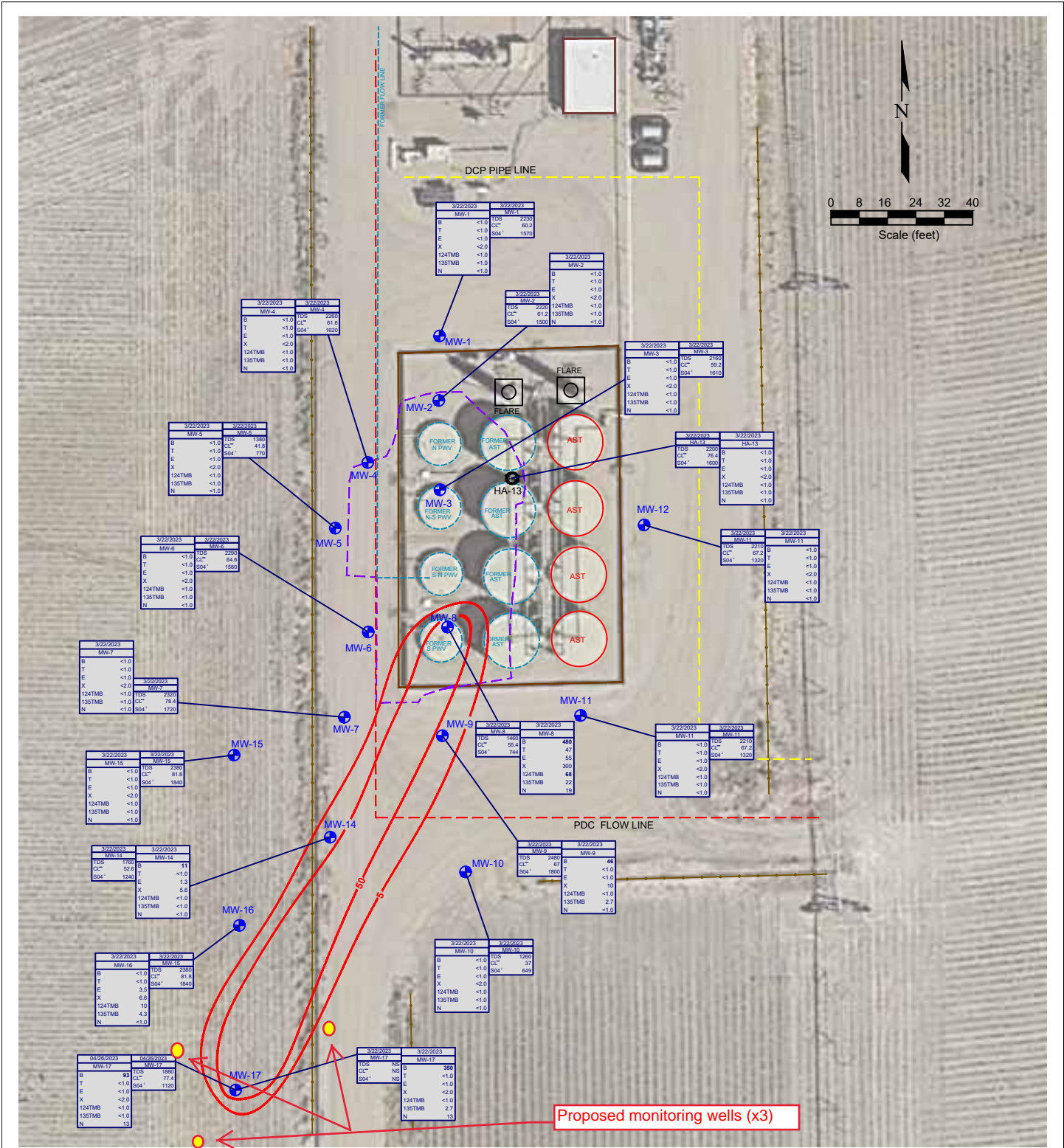
  

3/22/2023	
MW-17 (7')	
B	<0.0020
T	<0.0050
E	<0.0050
X	<0.010
124TMB	<0.0050
135TMB	<0.0050
N	<0.0038
G	<0.50
D	<50
O	<50

Figure 5  
**SOIL CHEMISTRY MAP**  
 March 22, 2023

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

Project No. <b>C022-010</b>	Facility # <b>436119</b>	Remediation # <b>22766</b>	
Date <b>4/20/2023</b>	Reviewed By <b>PH</b>	Filename <b>22010QP</b>	



**LEGEND**

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

DATE SAMPLED	SAMPLE ID	DATE SAMPLED	SAMPLE ID
3/22/2023	MW-1	3/22/2023	MW-17
B	<1.0	TDS	NS
T	<1.0	CL <sup>-</sup>	NS
E	<1.0	SO4 <sup>-</sup>	NS
X	<2.0		
124TMB	10		
135TMB	<1.0		
N	<1.0		

**Figure 6**  
**PROPOSED MONITORING WELLS**  
 March 22, 2023 and April 26, 2023  
**PDC Energy, Inc. ~ Schmunk EF Offsite Tank Battery #31**  
**SWNE Sec. 31, T7N, R65W, 6th PM**  
 Weld County, Colorado  
 40.534297°, -104.701619°

Project No. <b>C022-010</b>	Facility # <b>436119</b>	Remediation # <b>22766</b>	
Date <b>5/17/23</b>	Reviewed By <b>PH</b>	Filename <b>22010QP</b>	







# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 04, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: PDC - Schmunk  
Work Order #2303625

Enclosed are the results of analyses for samples received by Summit Scientific on 03/23/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2303625-01	Water	03/22/23 00:00	03/23/23 16:30
MW-2	2303625-02	Water	03/22/23 00:00	03/23/23 16:30
MW-3	2303625-03	Water	03/22/23 00:00	03/23/23 16:30
MW-4	2303625-04	Water	03/22/23 00:00	03/23/23 16:30
MW-5	2303625-05	Water	03/22/23 00:00	03/23/23 16:30
MW-6	2303625-06	Water	03/22/23 00:00	03/23/23 16:30
MW-7	2303625-07	Water	03/22/23 00:00	03/23/23 16:30
MW-8	2303625-08	Water	03/22/23 00:00	03/23/23 16:30
MW-9	2303625-09	Water	03/22/23 00:00	03/23/23 16:30
MW-10	2303625-10	Water	03/22/23 00:00	03/23/23 16:30
MW-11	2303625-11	Water	03/22/23 00:00	03/23/23 16:30
MW-12	2303625-12	Water	03/22/23 00:00	03/23/23 16:30
MW-13	2303625-13	Water	03/22/23 00:00	03/23/23 16:30
MW-14	2303625-14	Water	03/22/23 00:00	03/23/23 16:30
MW-15	2303625-15	Water	03/22/23 00:00	03/23/23 16:30
MW-16	2303625-16	Water	03/22/23 00:00	03/23/23 16:30
MW-17	2303625-17	Water	03/22/23 00:00	03/23/23 16:30
MW-15 5FT	2303625-18	Soil	03/22/23 00:00	03/23/23 16:30
MW-16 5FT	2303625-19	Soil	03/22/23 00:00	03/23/23 16:30
MW-17 7FT	2303625-20	Soil	03/22/23 00:00	03/23/23 16:30

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.*

2303625-1

# Summit Scientific

S<sub>2</sub>

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

Client: Fremont Environmental Project Manager: Paul Henehan  
 Address: E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com  
 City/State/Zip: Bill to: Jason  
 Phone: Project Name: PDC - Schmunk  
 Sampler Name: EB 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	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron	Metals (915)	
1	MW-1	3/22/23		4			X		X				X				X	
2	MW-2																	
3	MW-3																	
4	MW-4																	
5	MW-5																	
6	MW-6																	
7	MW-7																	
8	MW-8																	
9	MW-9																	
10	MW-10																	

Relinquished by: <i>Ethan Blod</i>	Date/Time: 3/23/23 1533	Received by: <i>[Signature]</i>	Date/Time: 3/23/23 1650	Turn Around Time (Check)	Notes:
Relinquished by: <i>sz</i>	Date/Time: 3/23/23 1630	Received by: <i>[Signature]</i>	Date/Time: 3/23/23 1650	Same Day _____ 72 hours _____	Standard <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours _____	
				Sample Integrity:	
				Temperature Upon Receipt: 83	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

2303625.2

# Summit Scientific

S<sub>2</sub>

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

Page 2 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to: Jason

Phone:

Project Name: PDC - Schmunck

Sampler Name: EB

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	BTEX, TMS, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD
1	MW-10	3/22/23		4			X	X					X							
2	MW-12																			
3	MW-13																			
4	MW-14																			
5	MW-15																			
6	MW-16																			
7	MW-17																			
8	MW-15 SFT	3/22/23		2																
9	MW-16 SFT																			
10	MW-17 7FT																			

Relinquished by: <u>Ethan Brook</u>	Date/Time: <u>3/23/23 1533</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/23/23 1630</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>SZ</u>	Date/Time: <u>3/23/23 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/23/23 1630</u>	Same Day _____ 72 hours	24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>83</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	

S<sub>2</sub>

2/2

S2 Work Order# 2303625

Sample Receipt Checklist

Client: Fremont Client Project ID: Poc Schmunk

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

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

Temp (°C) 8.3 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ICE</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>missing 17's poly</u>
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>mislabeled sample</u>
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCl</u>
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS

Custodian Printed Name

3/23/23

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-1**  
**2303625-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.1	105 %		23-173		"	"	03/27/23	"	
Surrogate: Toluene-d8	13.9	105 %		20-170		"	"	03/27/23	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.2 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>60.2</b>	12.0		mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
Sulfate	<b>1570</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>2230</b>	10.0		mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-2**  
**2303625-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.4	100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.4 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>61.2</b>	12.0		mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
Sulfate	<b>1500</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>2220</b>	10.0		mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-3**  
**2303625-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.3	99.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.7 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>59.2</b>	12.0		mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
Sulfate	<b>1610</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>2160</b>	10.0		mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-4**  
**2303625-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.2	99.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>61.6</b>	12.0	mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
<b>Sulfate</b>	<b>1620</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>2260</b>	10.0	mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-5**  
**2303625-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	15.0	113 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.5	101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.3 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>41.8</b>	12.0		mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
Sulfate	<b>770</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>1380</b>	10.0		mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-6**  
**2303625-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.7	110 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	99.6 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>64.6</b>	12.0		mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
Sulfate	<b>1580</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>2290</b>	10.0		mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-7**  
**2303625-07 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.5	102 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	100 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>78.4</b>	12.0		mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
Sulfate	<b>1720</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>2320</b>	10.0		mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

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Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-8**  
**2303625-08 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>480</b>	1.0	ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	E
<b>Toluene</b>	<b>47</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>55</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>300</b>	2.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>19</b>	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>68</b>	1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>22</b>	1.0	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.0	89.8 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	13.4	100 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	13.3	99.8 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>55.4</b>	12.0	mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
<b>Sulfate</b>	<b>744</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1460</b>	10.0	mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

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Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-9**  
**2303625-09 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>46</b>	1.0	ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>10</b>	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>2.7</b>	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	12.9	97.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.4 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>67.0</b>	12.0	mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
<b>Sulfate</b>	<b>1800</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>2480</b>	10.0	mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

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Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-10**  
**2303625-10 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	12.4	93.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.7 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>37.0</b>	12.0	mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
<b>Sulfate</b>	<b>649</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1260</b>	10.0	mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

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Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-11**  
**2303625-11 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	11.6	87.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	100 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>67.2</b>	12.0		mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
Sulfate	<b>1320</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>2210</b>	10.0		mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

Summit Scientific

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Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-12**  
**2303625-12 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.4	108 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.5	101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>72.0</b>	12.0		mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
Sulfate	<b>1570</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>2160</b>	10.0		mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

Summit Scientific

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Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-13**  
**2303625-13 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.3	99.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	98.6 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>76.4</b>	12.0		mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
Sulfate	<b>1600</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>2200</b>	10.0		mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

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Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-14**  
**2303625-14 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>11</b>	1.0	ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5.6</b>	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.2	99.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.2 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>52.6</b>	12.0	mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
<b>Sulfate</b>	<b>1240</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1760</b>	10.0	mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

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Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-15**  
**2303625-15 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.5	109 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	15.1	113 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.1 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>81.8</b>	12.0		mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
Sulfate	<b>1840</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>2380</b>	10.0		mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-16**  
**2303625-16 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.5</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6.6</b>	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>10</b>	1.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>4.3</b>	1.0	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.9	104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.4	100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	100 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>84.2</b>	12.0	mg/L	200	BGD0022	03/31/23	04/03/23	EPA 300.0	
<b>Sulfate</b>	<b>1820</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>2540</b>	10.0	mg/L	1	BGC0933	03/27/23	03/28/23	SM2540C	

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Project: PDC - Schmunk  
 Project Number: CO22-010  
 Project Manager: Paul Henchan

**Reported:**  
 04/04/23 12:15

**MW-17**  
**2303625-17 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>350</b>	1.0		ug/l	1	BGC0826	03/24/23	03/27/23	EPA 8260B	E
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>13</b>	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	12.8	96.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	97.1 %		21-167		"	"	"	"	

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Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-15 5FT**  
**2303625-18 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGC0942	03/28/23	03/29/23	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: **03/22/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGC0943	"	03/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

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

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Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**MW-16 5FT**  
**2303625-19 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0942	03/28/23	03/29/23	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: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>58</b>	50		mg/kg	1	BGC0943	"	03/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

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

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Project Manager: Paul Henchan

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**MW-17 7FT**  
**2303625-20 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGC0942	03/28/23	03/29/23	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: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0451	113 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGC0943	"	03/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.4	108 %		30-150		"	"	"	"	

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Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BGC0826 - EPA 5030 Water MS

##### Blank (BGC0826-BLK1)

Prepared: 03/24/23 Analyzed: 03/27/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		93.9	23-173			
Surrogate: Toluene-d8	14.2		"	13.3		107	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.5	21-167			

##### LCS (BGC0826-BS1)

Prepared: 03/24/23 Analyzed: 03/27/23

Benzene	36.4	1.0	ug/l	41.7		87.4	51-132			
Toluene	44.8	1.0	"	41.7		107	51-138			
Ethylbenzene	39.8	1.0	"	41.7		95.4	58-146			
m,p-Xylene	81.9	2.0	"	83.3		98.2	57-144			
o-Xylene	39.4	1.0	"	41.7		94.7	53-146			
Naphthalene	36.8	1.0	"	41.7		88.2	70-130			
1,2,4-Trimethylbenzene	43.9	1.0	"	41.7		105	70-130			
1,3,5-Trimethylbenzene	44.4	1.0	"	41.7		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	23-173			
Surrogate: Toluene-d8	15.3		"	13.3		115	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.0	21-167			

##### Matrix Spike (BGC0826-MS1)

Source: 2303625-01

Prepared: 03/24/23 Analyzed: 03/27/23

Benzene	37.5	1.0	ug/l	41.7	ND	90.0	34-141			
Toluene	38.9	1.0	"	41.7	ND	93.3	27-151			
Ethylbenzene	40.7	1.0	"	41.7	ND	97.7	29-160			
m,p-Xylene	83.5	2.0	"	83.3	ND	100	20-166			
o-Xylene	40.5	1.0	"	41.7	ND	97.2	33-159			
Naphthalene	42.5	1.0	"	41.7	ND	102	70-130			
1,2,4-Trimethylbenzene	45.0	1.0	"	41.7	ND	108	70-130			
1,3,5-Trimethylbenzene	45.0	1.0	"	41.7	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		101	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.6	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.7	21-167			

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Project: PDC - Schmunk

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Project Manager: Paul Henchan

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**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 BGC0826 - EPA 5030 Water MS**

**Matrix Spike Dup (BGC0826-MSD1)**

Source: 2303625-01

Prepared: 03/24/23 Analyzed: 03/27/23

Benzene	37.9	1.0	ug/l	41.7	ND	91.0	34-141	1.09	30
Toluene	39.2	1.0	"	41.7	ND	94.0	27-151	0.743	30
Ethylbenzene	41.1	1.0	"	41.7	ND	98.6	29-160	0.905	30
m,p-Xylene	83.1	2.0	"	83.3	ND	99.7	20-166	0.564	30
o-Xylene	40.1	1.0	"	41.7	ND	96.3	33-159	0.968	30
Naphthalene	44.1	1.0	"	41.7	ND	106	70-130	3.65	30
1,2,4-Trimethylbenzene	45.9	1.0	"	41.7	ND	110	70-130	1.85	30
1,3,5-Trimethylbenzene	46.1	1.0	"	41.7	ND	111	70-130	2.37	30
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		107	23-173		
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170		
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.3	21-167		

**Batch BGC0942 - EPA 5030 Soil MS**

**Blank (BGC0942-BLK1)**

Prepared & Analyzed: 03/28/23

Benzene	ND	0.0020	mg/kg						
Toluene	ND	0.0050	"						
Ethylbenzene	ND	0.0050	"						
Xylenes (total)	ND	0.010	"						
1,2,4-Trimethylbenzene	ND	0.0050	"						
1,3,5-Trimethylbenzene	ND	0.0050	"						
Naphthalene	ND	0.0038	"						
Gasoline Range Hydrocarbons	ND	0.50	"						
Surrogate: 1,2-Dichloroethane-d4	0.0366		"	0.0400		91.6	50-150		
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150		
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150		

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Project: PDC - Schmunk

Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

**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 BGC0942 - EPA 5030 Soil MS**

**LCS (BGC0942-BS1)**

Prepared & Analyzed: 03/28/23

Benzene	0.0795	0.0020	mg/kg	0.100		79.5	70-130			
Toluene	0.0821	0.0050	"	0.100		82.1	70-130			
Ethylbenzene	0.0935	0.0050	"	0.100		93.5	70-130			
m,p-Xylene	0.182	0.010	"	0.200		91.2	70-130			
o-Xylene	0.0919	0.0050	"	0.100		91.9	70-130			
1,2,4-Trimethylbenzene	0.0932	0.0050	"	0.100		93.2	70-130			
1,3,5-Trimethylbenzene	0.0938	0.0050	"	0.100		93.8	70-130			
Naphthalene	0.100	0.0038	"	0.100		100	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0365</i>		<i>"</i>	<i>0.0400</i>		<i>91.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.3</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

**Matrix Spike (BGC0942-MS1)**

Source: 2303625-18

Prepared: 03/28/23 Analyzed: 03/29/23

Benzene	0.0782	0.0020	mg/kg	0.100	ND	78.2	70-130			
Toluene	0.0817	0.0050	"	0.100	ND	81.7	70-130			
Ethylbenzene	0.0942	0.0050	"	0.100	ND	94.2	70-130			
m,p-Xylene	0.183	0.010	"	0.200	ND	91.3	70-130			
o-Xylene	0.0920	0.0050	"	0.100	ND	92.0	70-130			
1,2,4-Trimethylbenzene	0.0941	0.0050	"	0.100	ND	94.1	70-130			
1,3,5-Trimethylbenzene	0.0944	0.0050	"	0.100	ND	94.4	70-130			
Naphthalene	0.102	0.0038	"	0.100	ND	102	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0356</i>		<i>"</i>	<i>0.0400</i>		<i>89.1</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.5</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.0</i>	<i>50-150</i>			

**Matrix Spike Dup (BGC0942-MSD1)**

Source: 2303625-18

Prepared: 03/28/23 Analyzed: 03/29/23

Benzene	0.0799	0.0020	mg/kg	0.100	ND	79.9	70-130	2.09	30	
Toluene	0.0837	0.0050	"	0.100	ND	83.7	70-130	2.47	30	
Ethylbenzene	0.0964	0.0050	"	0.100	ND	96.4	70-130	2.33	30	
m,p-Xylene	0.188	0.010	"	0.200	ND	93.8	70-130	2.71	30	
o-Xylene	0.0938	0.0050	"	0.100	ND	93.8	70-130	1.84	30	
1,2,4-Trimethylbenzene	0.0955	0.0050	"	0.100	ND	95.5	70-130	1.42	30	
1,3,5-Trimethylbenzene	0.0971	0.0050	"	0.100	ND	97.1	70-130	2.82	30	
Naphthalene	0.103	0.0038	"	0.100	ND	103	70-130	1.40	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0344</i>		<i>"</i>	<i>0.0400</i>		<i>86.0</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>97.9</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>50-150</i>			

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Project: PDC - Schmunk  
 Project Number: CO22-010  
 Project Manager: Paul Henchan

**Reported:**  
 04/04/23 12:15

**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 BGC0943 - EPA 3550A**

**Blank (BGC0943-BLK1)**

Prepared: 03/28/23 Analyzed: 03/30/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.6		"	12.5	101	30-150					

**LCS (BGC0943-BS1)**

Prepared: 03/28/23 Analyzed: 03/30/23

C10-C28 (DRO)	416	50	mg/kg	500	83.1	70-130					
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5	99.9	30-150					

**Matrix Spike (BGC0943-MS1)**

Source: 2303625-18

Prepared: 03/28/23 Analyzed: 03/30/23

C10-C28 (DRO)	405	50	mg/kg	500	10.8	78.9	70-130				
Surrogate: <i>o</i> -Terphenyl	14.3		"	12.5	114	30-150					

**Matrix Spike Dup (BGC0943-MSD1)**

Source: 2303625-18

Prepared: 03/28/23 Analyzed: 03/30/23

C10-C28 (DRO)	408	50	mg/kg	500	10.8	79.4	70-130	0.546	20		
Surrogate: <i>o</i> -Terphenyl	14.1		"	12.5	112	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: PDC - Schmunk

Project Number: CO22-010  
 Project Manager: Paul Henchan

**Reported:**  
 04/04/23 12:15

**Anions by EPA Method 300.0 - Quality Control**  
**Summit Scientific**

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

**Batch BGD0022 - General Preparation**

**Blank (BGD0022-BLK1)**

Prepared: 03/31/23 Analyzed: 04/03/23

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

**LCS (BGD0022-BS1)**

Prepared: 03/31/23 Analyzed: 04/03/23

Chloride	2.75	0.0600	mg/L	3.00	91.6	90-110		
Sulfate	13.5	0.300	"	15.0	90.2	90-110		

**Duplicate (BGD0022-DUP1)**

Source: 2303623-03

Prepared: 03/31/23 Analyzed: 04/03/23

Chloride	92.6	12.0	mg/L		104		11.6	20
Sulfate	656	60.0	"		742		12.2	20

**Matrix Spike (BGD0022-MS1)**

Source: 2303623-03

Prepared: 03/31/23 Analyzed: 04/03/23

Chloride	588	12.0	mg/L	600	104	80.7	80-120	
Sulfate	3150	60.0	"	3000	742	80.3	80-120	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010  
 Project Manager: Paul Henchan

**Reported:**  
 04/04/23 12:15

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

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

**Batch BGC0933 - General Preparation**

**Blank (BGC0933-BLK1)**

Prepared: 03/27/23 Analyzed: 03/28/23

Total Dissolved Solids      ND      10.0      mg/L

**Duplicate (BGC0933-DUP1)**

**Source: 2303625-01**

Prepared: 03/27/23 Analyzed: 03/28/23

Total Dissolved Solids      2220      10.0      mg/L      2230      0.269      20

Summit Scientific

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





Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
04/04/23 12:15

### Notes and Definitions

- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 17, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: PDC - Schmunk  
Work Order #2304600

Enclosed are the results of analyses for samples received by Summit Scientific on 04/26/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
05/17/23 11:12

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-17	2304600-01	Water	04/26/23 00:00	04/26/23 16:30

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.*

2304600

# Summit Scientific

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:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to: PDC

Phone:

Project Name: PDC - Schunk

Sampler Name: EB

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	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD						
1	MW-11	4/24/23		4	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>							
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Relinquished by: *Ethan Blank* Date/Time: 4/26/23 1620

Received by: *S2* Date/Time: 4/26/23 1620

Turn Around Time (Check)  
Same Day  72 hours   
24 hours  Standard   
48 hours

Notes:

Relinquished by: *S2* Date/Time: 4/26/23 1630

Received by: *[Signature]* Date/Time: 4/26/23 1630

Sample Integrity:  
Temperature Upon Receipt: 12.7

Relinquished by:

Received by:

Samples Intact:  Yes  No

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2304600

Client: Fremont Client Project ID: Pbc - Schmunck

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

-

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

Temp (°C) 12.7 Thermometer # 1

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

Additional Comments (if any):

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

AS

Custodian Printed Name

4/20/23

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
05/17/23 11:12

**MW-17**  
**2304600-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>93</b>	1.0		ug/l	1	BGD0979	04/28/23	05/11/23	EPA 8260B	I-02
Toluene	ND	1.0		"	"	"	"	"	"	I-02
Ethylbenzene	ND	1.0		"	"	"	"	"	"	I-02
Xylenes (total)	ND	2.0		"	"	"	"	"	"	I-02
Naphthalene	ND	1.0		"	"	"	"	"	"	I-02
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	I-02
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	I-02

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.6	109 %		23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	12.5	93.8 %		20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	14.6	110 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>77.4</b>	12.0		mg/L	200	BGD1013	04/30/23	05/01/23	EPA 300.0	
<b>Sulfate</b>	<b>1120</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **04/26/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>1880</b>	10.0		mg/L	1	BGE0025	05/01/23	05/01/23	SM2540C	

Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
05/17/23 11:12

### 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 BGD0979 - EPA 5030 Water MS

##### Blank (BGD0979-BLK1)

Prepared: 04/28/23 Analyzed: 05/02/23

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	17.9		"	13.3		134		23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101		20-170			
Surrogate: 4-Bromofluorobenzene	14.6		"	13.3		109		21-167			

##### LCS (BGD0979-BS1)

Prepared: 04/28/23 Analyzed: 05/02/23

Benzene	52.4	1.0	ug/l	41.7		126		51-132			
Toluene	56.3	1.0	"	41.7		135		51-138			
Ethylbenzene	49.3	1.0	"	41.7		118		58-146			
m,p-Xylene	48.3	2.0	"	83.3		57.9		57-144			
o-Xylene	51.1	1.0	"	41.7		123		53-146			
Naphthalene	41.3	1.0	"	41.7		99.0		70-130			
1,2,4-Trimethylbenzene	44.3	1.0	"	41.7		106		70-130			
1,3,5-Trimethylbenzene	45.3	1.0	"	41.7		109		70-130			
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.3		112		23-173			
Surrogate: Toluene-d8	13.4		"	13.3		101		20-170			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105		21-167			

##### Matrix Spike (BGD0979-MS1)

Source: 2304602-02

Prepared: 04/28/23 Analyzed: 05/03/23

Benzene	55.6	1.0	ug/l	41.7	ND	133		34-141			
Toluene	50.2	1.0	"	41.7	ND	120		27-151			
Ethylbenzene	51.2	1.0	"	41.7	ND	123		29-160			
m,p-Xylene	52.3	2.0	"	83.3	ND	62.7		20-166			
o-Xylene	54.8	1.0	"	41.7	ND	131		33-159			
Naphthalene	53.5	1.0	"	41.7	ND	128		70-130			
1,2,4-Trimethylbenzene	51.1	1.0	"	41.7	ND	123		70-130			
1,3,5-Trimethylbenzene	49.6	1.0	"	41.7	ND	119		70-130			
Surrogate: 1,2-Dichloroethane-d4	22.5		"	13.3		169		23-173			
Surrogate: Toluene-d8	14.1		"	13.3		106		20-170			
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3		107		21-167			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Schmunk  
 Project Number: CO22-010  
 Project Manager: Paul Henchan

**Reported:**  
 05/17/23 11:12

**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 BGD0979 - EPA 5030 Water MS**

Matrix Spike Dup (BGD0979-MSD1)	Source: 2304602-02			Prepared: 04/28/23 Analyzed: 05/03/23							
Benzene	56.3	1.0	ug/l	41.7	ND	135	34-141	1.14	30		
Toluene	55.2	1.0	"	41.7	ND	133	27-151	9.54	30		
Ethylbenzene	51.0	1.0	"	41.7	ND	122	29-160	0.411	30		
m,p-Xylene	51.0	2.0	"	83.3	ND	61.2	20-166	2.52	30		
o-Xylene	52.6	1.0	"	41.7	ND	126	33-159	3.97	30		
Naphthalene	53.4	1.0	"	41.7	ND	128	70-130	0.187	30		
1,2,4-Trimethylbenzene	54.3	1.0	"	41.7	ND	130	70-130	5.98	30		
1,3,5-Trimethylbenzene	51.6	1.0	"	41.7	ND	124	70-130	4.05	30		
Surrogate: 1,2-Dichloroethane-d4	21.8		"	13.3		163	23-173				
Surrogate: Toluene-d8	14.2		"	13.3		106	20-170				
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3		107	21-167				

Summit Scientific

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



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010  
 Project Manager: Paul Henchan

**Reported:**  
 05/17/23 11:12

**Anions by EPA Method 300.0 - Quality Control**  
**Summit Scientific**

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

**Batch BGD1013 - General Preparation**

**Blank (BGD1013-BLK1)**

Prepared & Analyzed: 04/30/23

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

**LCS (BGD1013-BS1)**

Prepared & Analyzed: 04/30/23

Chloride	3.24	0.0600	mg/L	3.00	108	90-110		
Sulfate	14.5	0.300	"	15.0	96.3	90-110		

**Duplicate (BGD1013-DUP1)**

Source: 2304599-01

Prepared & Analyzed: 04/30/23

Chloride	63.0	12.0	mg/L		68.4		8.22	20
Sulfate	326	60.0	"		337		3.08	20

**Matrix Spike (BGD1013-MS1)**

Source: 2304599-01

Prepared & Analyzed: 04/30/23

Chloride	701	12.0	mg/L	600	68.4	105	80-120	
Sulfate	3140	60.0	"	3000	337	93.4	80-120	

Summit Scientific

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



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Schmunk

Project Number: CO22-010  
 Project Manager: Paul Henchan

**Reported:**  
 05/17/23 11:12

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

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

**Batch BGE0025 - General Preparation**

**Blank (BGE0025-BLK1)**

Prepared & Analyzed: 05/01/23

Total Dissolved Solids                      ND                      10.0                      mg/L

**Duplicate (BGE0025-DUP1)**

**Source: 2304599-01**

Prepared & Analyzed: 05/01/23

Total Dissolved Solids                      1040                      10.0                      mg/L                      1000                      3.91                      20

Summit Scientific

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





Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Schmunk  
Project Number: CO22-010  
Project Manager: Paul Henchan

**Reported:**  
05/17/23 11:12

### Notes and Definitions

I-02 This sample was analyzed outside of the recommended holding time.

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