

FREMONT ENVIRONMENTAL INC.

August 1, 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.

The quarterly groundwater sampling and monitoring data are summarized in Tables 1 and 2. These data indicate that the groundwater flow direction is to the southwest and dissolved petroleum concentrations from 12 of the 17 wells were less than the Colorado Energy and Carbon Management Commission's (ECMC's) Table 915-1 limits.

As shown on Figure 4, MW-17, which is the southwestern-most well, has benzene impacts greater than the ECMC Table 915-1 standard. 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 Organic Groundwater Chemistry

Table 2 - Summary of Inorganic Groundwater Chemistry

Figure 1 - Site Map

Figure 2 - Site Location Map

Figure 3 - Inferred Groundwater Contours

Figure 4 - Groundwater Chemistry

Figure 5 - Proposed Monitoring Wells

Laboratory Reports

TABLE 1
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)	Trimethyl-Benzene (µg/L)	Trimethyl-Benzene (µg/L)	1-Methyl naphthalene (µg/L)	2-Methyl naphthalene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC 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
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		6.40	92.04	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
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		6.34	91.73	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
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		6.00	91.60	NP
MW-4	12/2/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0			97.46	7.61	89.85	NP
	3/22/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0				7.43	90.03	NP
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		6.32	91.14	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				7.10	89.64	NP
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		5.88	90.86	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
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		6.00	90.65	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
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		5.61	-5.61	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
	6/28/2023	270	4.6	20	75	8.4	16	4.7	5.09	<0.500		5.23	91.57	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
	6/28/2023	6.8	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		6.20	90.54	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
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		6.53	89.91	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
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		6.37	91.19	NP

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	Trimethyl-Benzene (µg/L)	Trimethyl-Benzene (µg/L)	1-Methyl naphthalene (µg/L)	2-Methyl naphthalene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC 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
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		6.26	92.40	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
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		8.40	91.60	NP
MW-14	2/9/2023	68	4.8	9.9	42	1.9	12	4.1			95.33	NM	NM	NP
	3/22/2023	11	<1.0	1.3	5.6	<1.0	<1.0	<1.0				8.40	86.93	NP
	6/28/2023	270	<1.0	<1.0	<2.0	19	<1.0	<1.0	4.65	<0.500		6.10	89.23	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
	6/28/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500		2.66	90.37	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
	6/28/2023	25	<1.0	9.2	18	9.4	21	7.5	3.20	<0.500		3.85	88.43	NP
MW-17	3/22/2023	350	<1.0	<1.0	<2.0	13	<1.0	<1.0			92.00	13.05	78.95	NP
	4/26/2023	93	<1.0	<1.0	<2.0	13	<1.0	<1.0			91.93	6.57	85.43	NP
	6/28/2023	160	<1.0	<1.0	<2.0	1.8	<1.0	<1.0	<0.500	<0.500		3.35	88.65	NP

Bold face values exceed the ECMC limits

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

NP - No measureable LNAPL

NA - Not Analyzed

TABLE 2
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
PDC ENERGY INC.
SCHMUNK PAD, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-010

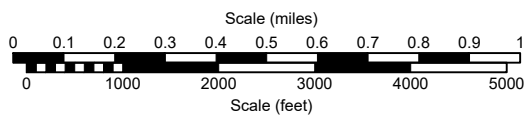
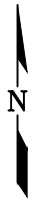
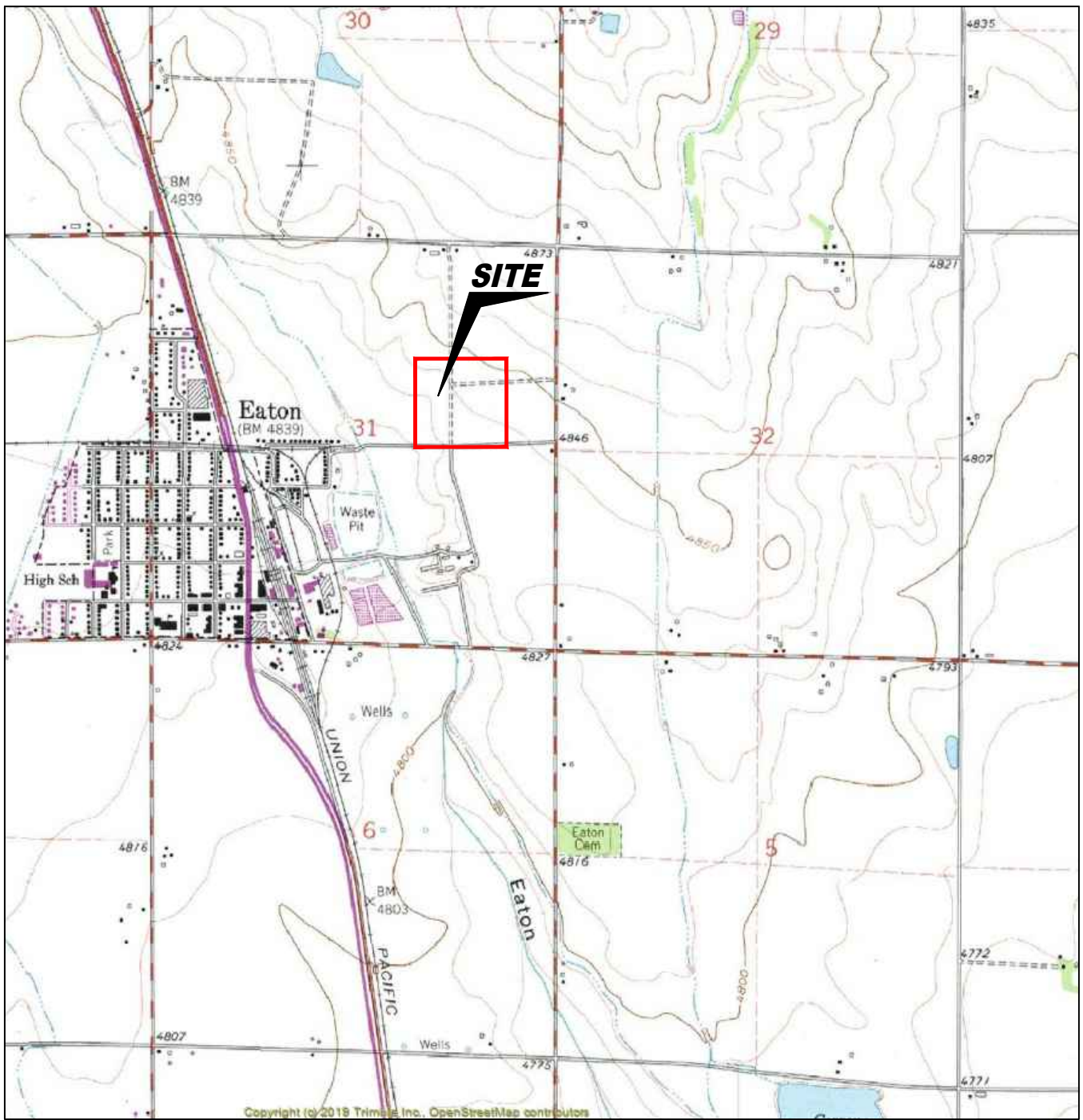
Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
Site Specific Background		3050	250.0	2650
MW-1	12/2/2022	2180	94.0	1770
	3/22/2023	2230	60.2	1570
	6/28/2023	2440	143	2120
MW-2	12/2/2022	2150	103	1860
	03/22/2023	2220	61.2	1500
	6/28/2023	2300	124	1960
MW-3	12/2/2022	2110	98.4	1870
	03/22/2023	2160	59.2	1610
	6/28/2023	2220	91.4	2030
MW-4	12/2/2022	2140	100	1940
	03/22/2023	2260	61.6	1620
	6/28/2023	2440	138	2130
MW-5	12/8/2022	2140	29.2	554
	03/22/2023	1380	41.8	770
	6/28/2023	2030	141	1710
MW-6	12/2/2022	2170	110	1840
	03/22/2023	2290	64.6	1580
	6/28/2023	2550	148	2300
MW-7	12/8/2022	2120	95.6	1670
	3/22/2023	2320	78.4	1720
	6/28/2023	2650	158	1980
MW-8	12/2/2022	2070	115	1950
	03/22/2023	1460	55.4	744
	6/28/2023	2340	133	1740
MW-9	12/2/2022	2330	109	2090
	03/22/2023	2480	67	1800
	6/28/2023	2520	104	2230
MW-10	12/2/2022	3640	107	3450
	03/22/2023	1260	37	649
	6/28/2023	2730	191	2470
MW-11	12/2/2022	2550	126	2250
	03/22/2023	2210	67.2	1320
	6/28/2023	2760	118	2340
MW-12	12/2/2022	2140	109	1840
	03/22/2023	2160	72	1570
	6/28/2023	2440	112	2240

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC 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		3050	250.0	2650
MW-13	12/2/2022	2140	121	1870
	03/22/2023	2200	76.4	1600
	6/28/2023	1740	74.0	1420
MW-14	2/9/2023	4240	31.2	213
	03/22/2023	1760	52.6	1240
	6/28/2023	2300	110	2040
MW-15	03/22/2023	2380	81.8	1840
	6/28/2023	2200	112	1990
MW-16	03/22/2023	2540	84.2	1820
	6/28/2023	1940	103	1320
MW-17	3/22/2023	NS	NS	NS
	4/26/2023	1880	77.4	1120
	6/28/2023	1660	74.0	1210

Bold face values exceed the ECMC limits

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

MW-1 used as background well



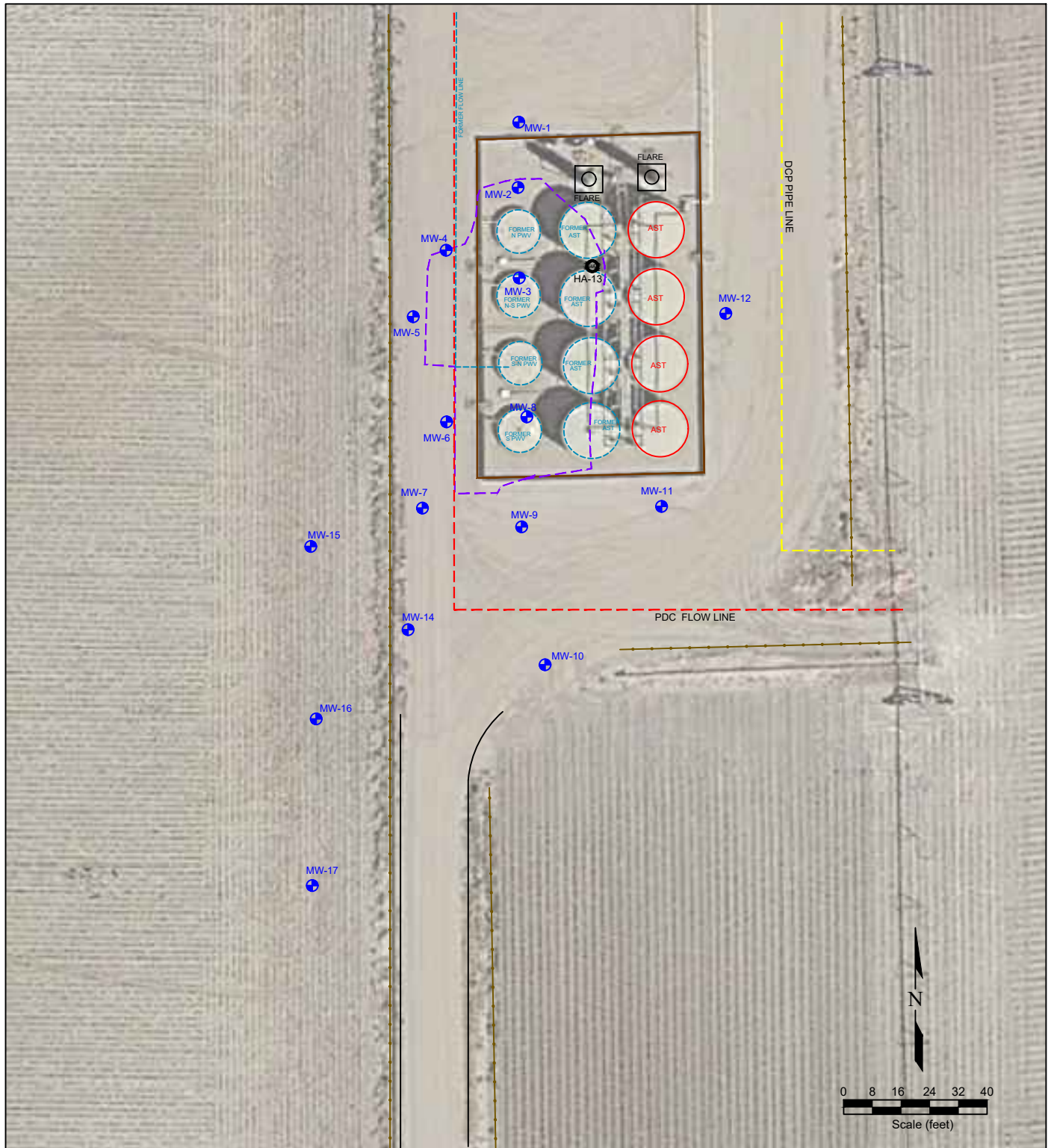
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

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 # C022-010	Facility # 436119	Remediation # 22766
Date 7/31/23	Reviewed by PH	Filename 22010T





LEGEND

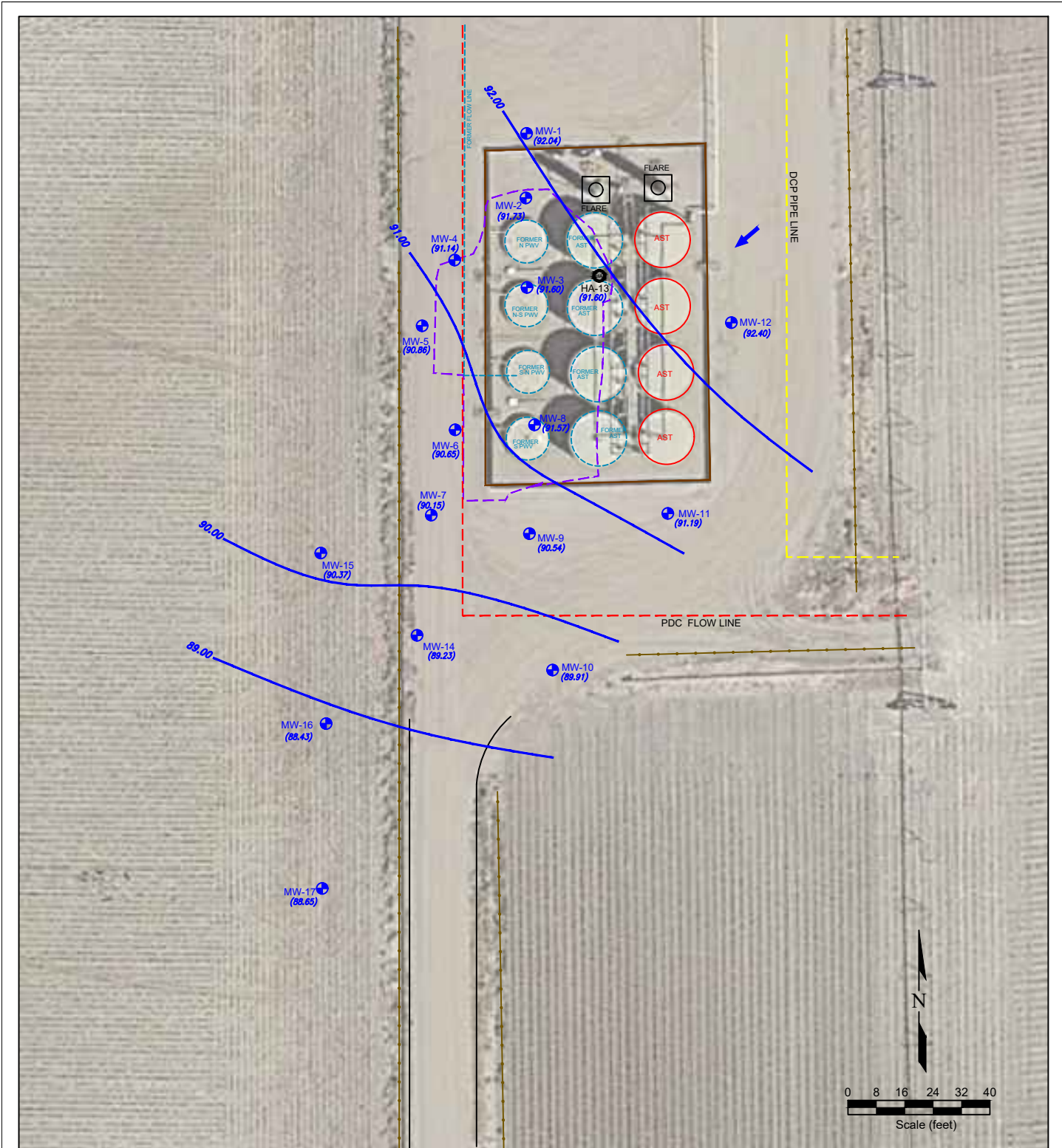
- ⊕ MONITORING WELL
- ⊕ ABOVE GROUND STORAGE TANK
- ⊕ HAND AUGURED WELLS
- FORMER FORMER FACILITY
- BUILDING BUILDING
- CONTAINMENT WALL
- EXTENT OF EXCAVATION
- CONTAINMENT WALL
- PDC FLOW LINE
- DCP PIPELINE

**Figure 2
SITE MAP**

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

Project No. C022-010	Facility # 436119	Remediation # 22766
Date 7/31/23	Reviewed By PH	Filename 22010QP





LEGEND

- ⊕ MONITORING WELL
- ⊕ ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- BUILDING BUILDING
- CONTAINMENT WALL
- EXTENT OF EXCAVATION
- CONTAINMENT WALL
- PDC FLOW LINE
- DCP PIPELINE
- NOT USED FOR CONTOURING
- (NM) 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
 June 28, 2023

PDC Energy, Inc. ~ Schunk 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 7/31/23	Reviewed By PH	Filename 22010QP	

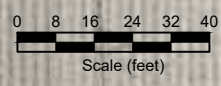
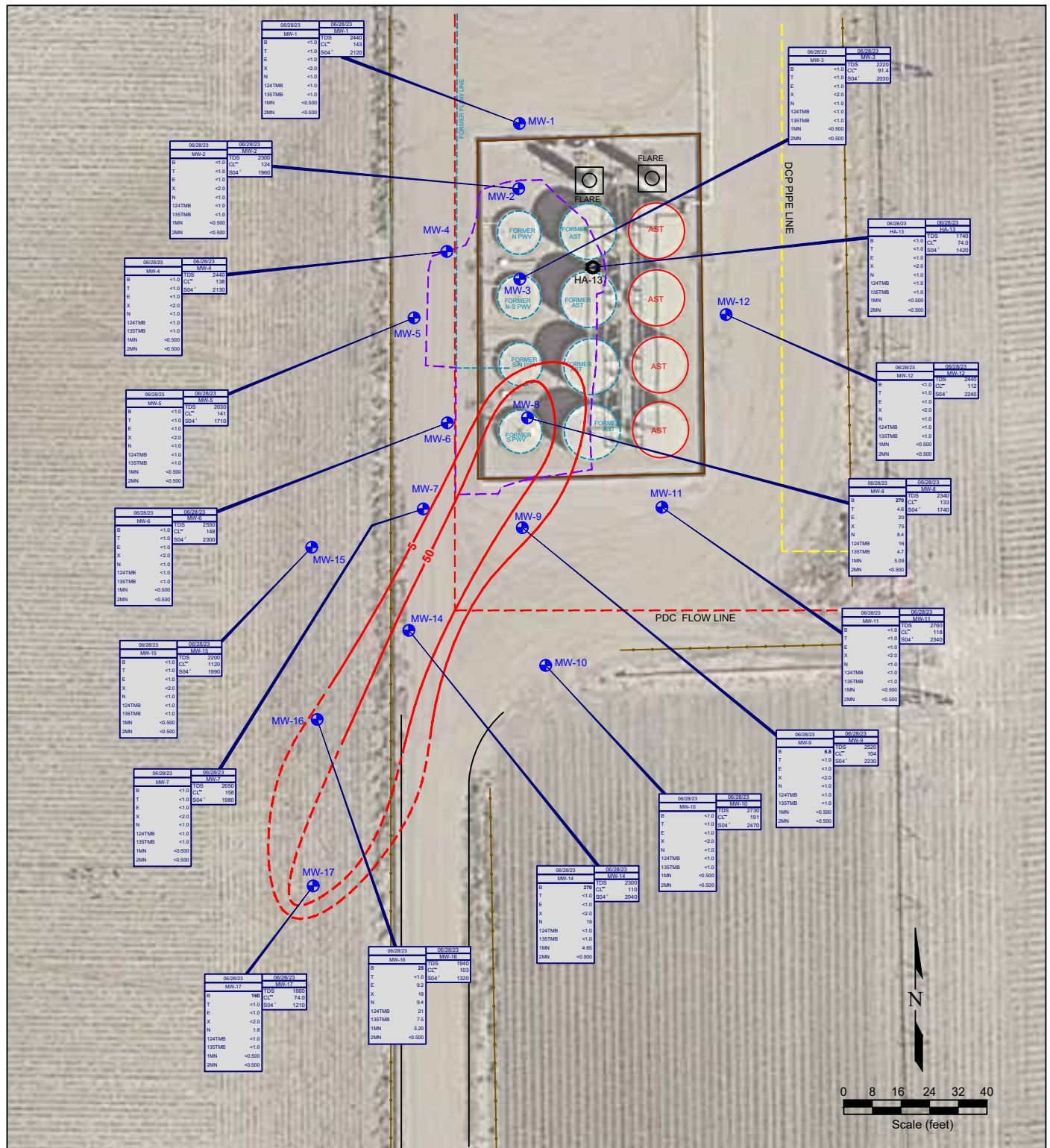


Figure 4
GROUNDWATER CHEMISTRY MAP
 June 28, 2023

PDC Energy, Inc. ~ Schunk 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 8/1/23	Reviewed By PH	Filename 22010QP	

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

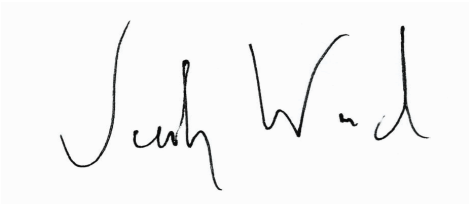
303.277.9310

July 11, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Schmunk
Work Order #2306621

Enclosed are the results of analyses for samples received by Summit Scientific on 06/29/23 19:24. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small flourish at the end of the word "Wood".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
07/11/23 10:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2306621-01	Water	06/28/23 00:00	06/29/23 19:24
MW-2	2306621-02	Water	06/28/23 00:00	06/29/23 19:24
MW-3	2306621-03	Water	06/28/23 00:00	06/29/23 19:24
MW-4	2306621-04	Water	06/28/23 00:00	06/29/23 19:24
MW-5	2306621-05	Water	06/28/23 00:00	06/29/23 19:24
MW-6	2306621-06	Water	06/28/23 00:00	06/29/23 19:24
MW-7	2306621-07	Water	06/28/23 00:00	06/29/23 19:24
MW-8	2306621-08	Water	06/28/23 00:00	06/29/23 19:24
MW-9	2306621-09	Water	06/28/23 00:00	06/29/23 19:24
MW-10	2306621-10	Water	06/28/23 00:00	06/29/23 19:24
MW-11	2306621-11	Water	06/28/23 00:00	06/29/23 19:24
MW-12	2306621-12	Water	06/28/23 00:00	06/29/23 19:24
HA-13	2306621-13	Water	06/28/23 00:00	06/29/23 19:24
MW-14	2306621-14	Water	06/28/23 00:00	06/29/23 19:24
MW-15	2306621-15	Water	06/28/23 00:00	06/29/23 19:24
MW-16	2306621-16	Water	06/28/23 00:00	06/29/23 19:24
MW-17	2306621-17	Water	06/28/23 00:00	06/29/23 19:24

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.

Client: Fremont		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henehan		Company: PDCE, Inc.	
City/State/Zip:		E-Mail: Fremont and PDCE Dist. List		Project Name/Location:	
Phone:		Project Name: PDC - Schmunk		AFE#:	
Sampler Name: EB, JG		Project Number:		PO/Billing Codes:	
				Contact: Jason Davidson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested			Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	NBTEX, TMS	1 and 2 methy- naphthalene		TDS, Cl-, SO4 ²⁻
1	MW-1	6/28/23		5	X		X		X				X	X	X	
2	MW-2															
3	MW-3															
4	MW-4															
5	MW-5															
6	MW-6															
7	MW-7			2												
8	MW-8			5												
9	MW-9															
10	MW-10															
11	MW-11															
12	MW-12															
13	HA-13															
14	MW-14															
15	MW-15															

Relinquished by: <i>Chloe Black</i>	Date/Time: 6/28/23 1924	Received by: S2	Date/Time: 6/28/23 1924	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 8.3	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 2 of 2
2306621.2	

Client: Fremont		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company:	
Address:		E-Mail: See p. 1		Project Name/Location: See p. 1	
City/State/Zip:		Project Name: PDC - Schmunk		AFE#:	
Phone:		Project Number:		PO/Billing Codes:	
Sampler Name: EB, JG				Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative			Matrix			Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	NISTEX, TMBS	Lead 2 methyl-naphtha		TDS, Cl ⁻ , SO ₄ ²⁻
1	MW-16	6/28/28		5	X		X		X				X	X	X	
2	MW-17	2		5	X		X		X				X	X	X	
3																
4																
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Relinquished by: <i>[Signature]</i>	Date/Time: 6/28/23 1924	Received by: S2	Date/Time: 6/28/23 1924	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 8.3	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:	Standard	X Field Turb.	

S₂

S2 Work Order# 2306621

Sample Receipt Checklist

Client: Fremont Client Project ID: Pre-Schmunk

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

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

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	vog for MW-10 arrived broken
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5 bottle received for MW-7 (COC says 4)
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MW-7 has 1 vog nearly empty
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>Additional Comments (if any):</u> COC says all samples were from 6/28/23, but 4 bottles sent 6/27/23				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Vin Wald
Custodian Printed Name

6/28/23 19:24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
07/11/23 10:05

MW-1
2306621-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.2	122 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.5	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.3	115 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.71	85.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.65	82.6 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

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:
 07/11/23 10:05

MW-1
2306621-01 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	143	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	2120	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2440	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	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:
07/11/23 10:05

MW-2
2306621-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.2	121 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.4	108 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.2	114 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.57	78.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.56	78.1 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

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:
 07/11/23 10:05

MW-2
2306621-02 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	124	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	1960	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2300	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	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:
07/11/23 10:05

MW-3
2306621-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	16.3	122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	14.4	108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.3	115 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.500	ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	1.71	85.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.52	75.9 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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:
 07/11/23 10:05

MW-3
2306621-03 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	91.4	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	2030	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2220	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	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:
07/11/23 10:05

MW-4
2306621-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.4	123 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.6	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.5	116 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.64	82.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.65	82.7 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

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:
 07/11/23 10:05

MW-4
2306621-04 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	138	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	2130	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2440	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	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:
07/11/23 10:05

MW-5
2306621-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.0	120 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.6	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.8	118 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.53	76.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.49	74.6 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

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:
 07/11/23 10:05

MW-5
2306621-05 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	141	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	1710	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2030	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	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:
07/11/23 10:05

MW-6
2306621-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.2	122 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.5	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.7	118 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.96	97.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.68	83.8 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

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:
 07/11/23 10:05

MW-6
2306621-06 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	148	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	2300	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2550	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	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:
 07/11/23 10:05

MW-7
2306621-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	17.5	131 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.6	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.6	117 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.75	87.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.62	80.9 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

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:
 07/11/23 10:05

MW-7
2306621-07 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	158	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	1980	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2650	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	SM2540C	

Summit Scientific



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PO Box 1289
Wellington CO, 80549

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

Reported:
07/11/23 10:05

MW-8
2306621-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	270	10	ug/l	10	BGF1137	06/30/23	07/01/23	EPA 8260B	
Toluene	4.6	1.0	"	1	"	"	07/01/23	"	
Ethylbenzene	20	1.0	"	"	"	"	"	"	
Xylenes (total)	75	2.0	"	"	"	"	"	"	
Naphthalene	8.4	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	16	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.7	1.0	"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	15.0	112 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	14.6	110 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	15.3	115 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	5.09	0.500	ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 2-Methylnaphthalene-d10</i>	2.01	100 %	40-150		"	"	"	"	
<i>Surrogate: Fluoranthene-d10</i>	1.71	85.7 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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:
 07/11/23 10:05

MW-8
2306621-08 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	133	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	1740	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2340	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	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:
07/11/23 10:05

MW-9
2306621-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	6.8	1.0	ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	16.5	123 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	14.3	108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.8	119 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.500	ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	1.69	84.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.65	82.6 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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 PO Box 1289
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Project: PDC - Schmunk
 Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 07/11/23 10:05

MW-9
2306621-09 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	104	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	2230	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2520	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	SM2540C	

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Fremont Environmental
PO Box 1289
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Project: PDC - Schmunk
Project Number: CO22-010
Project Manager: Paul Henchan

Reported:
07/11/23 10:05

MW-10
2306621-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.8	126 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.6	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.7	118 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.73	86.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.64	82.2 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 07/11/23 10:05

MW-10
2306621-10 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	191	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	2470	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2730	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	SM2540C	

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Fremont Environmental
PO Box 1289
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Project: PDC - Schmunk
Project Number: CO22-010
Project Manager: Paul Henchan

Reported:
07/11/23 10:05

MW-11
2306621-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.7	125 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.7	110 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.8	118 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.68	84.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.65	82.5 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: PDC - Schmunk
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 Project Manager: Paul Henchan

Reported:
 07/11/23 10:05

MW-11
2306621-11 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	118	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	2340	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2760	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	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:
07/11/23 10:05

MW-12
2306621-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	17.5	131 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.6	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.3	115 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.68	84.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.64	82.2 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

Summit Scientific

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

Reported:
 07/11/23 10:05

MW-12
2306621-12 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	112	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	2240	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2440	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	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:
07/11/23 10:05

HA-13
2306621-13 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	17.1	129 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.5	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.7	118 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.84	92.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.63	81.4 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

Summit Scientific

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

Reported:
 07/11/23 10:05

HA-13
2306621-13 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	74.0	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	1420	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	1740	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	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:
07/11/23 10:05

MW-14
2306621-14 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	270	10	ug/l	10	BGF1137	06/30/23	07/03/23	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	07/01/23	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	19	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	14.5	109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	15.5	116 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.6	117 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	4.65	0.500	ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	1.67	83.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.47	73.5 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Fremont Environmental
 PO Box 1289
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Project: PDC - Schmunk
 Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 07/11/23 10:05

MW-14
2306621-14 (Water)

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Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	110	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	2040	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2300	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	SM2540C	

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

Reported:
07/11/23 10:05

MW-15
2306621-15 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGF1137	06/30/23	07/01/23	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: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.4	123 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.7	110 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.7	118 %		21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.500		ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.88	93.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.72	86.0 %		40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: PDC - Schmunk
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 Project Manager: Paul Henchan

Reported:
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MW-15
2306621-15 (Water)

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Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	112	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	1990	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	2200	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	SM2540C	

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

Reported:
07/11/23 10:05

MW-16
2306621-16 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	25	1.0	ug/l	1	BGF1137	06/30/23	07/01/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	9.2	1.0	"	"	"	"	"	"	
Xylenes (total)	18	2.0	"	"	"	"	"	"	
Naphthalene	9.4	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	21	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	7.5	1.0	"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	16.2	121 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	14.8	111 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	15.4	116 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	3.20	0.500	ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 2-Methylnaphthalene-d10</i>	1.73	86.3 %	40-150		"	"	"	"	
<i>Surrogate: Fluoranthene-d10</i>	1.57	78.4 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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

Reported:
 07/11/23 10:05

MW-16
2306621-16 (Water)

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Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	103	12.0	mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	1320	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	1940	10.0	mg/L	1	BGG0043	07/03/23	07/03/23	SM2540C	

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

Reported:
07/11/23 10:05

MW-17
2306621-17 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	160	1.0	ug/l	1	BGF1137	06/30/23	07/01/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	1.8	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	15.9	119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	14.9	112 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.7	118 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.500	ug/l	1	BGF1116	06/30/23	07/01/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	1.85	92.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.62	81.0 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 07/11/23 10:05

MW-17
2306621-17 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **06/28/23 00:00**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	74.0	12.0		mg/L	200	BGG0081	07/05/23	07/10/23	EPA 300.0	
Sulfate	1210	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **06/28/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1660	10.0		mg/L	1	BGG0043	07/03/23	07/03/23	SM2540C	

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Fremont Environmental
PO Box 1289
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Project: PDC - Schmunk
Project Number: CO22-010
Project Manager: Paul Henchan

Reported:
07/11/23 10:05

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 BGF1137 - EPA 5030 Water MS

Blank (BGF1137-BLK1)

Prepared: 06/30/23 Analyzed: 07/01/23

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	16.6		"	13.3		125		23-173			
<i>Surrogate: Toluene-d8</i>	14.5		"	13.3		108		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	15.6		"	13.3		117		21-167			

LCS (BGF1137-BS1)

Prepared: 06/30/23 Analyzed: 07/01/23

Benzene	37.6	1.0	ug/l	41.7		90.1		51-132			
Toluene	56.8	1.0	"	41.7		136		51-138			
Ethylbenzene	50.4	1.0	"	41.7		121		58-146			
m,p-Xylene	103	2.0	"	83.3		123		57-144			
o-Xylene	49.4	1.0	"	41.7		119		53-146			
Naphthalene	45.0	1.0	"	41.7		108		70-130			
1,2,4-Trimethylbenzene	51.4	1.0	"	41.7		123		70-130			
1,3,5-Trimethylbenzene	52.0	1.0	"	41.7		125		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	15.9		"	13.3		119		23-173			
<i>Surrogate: Toluene-d8</i>	14.3		"	13.3		107		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	15.0		"	13.3		112		21-167			

Matrix Spike (BGF1137-MS1)

Source: 2306621-01

Prepared: 06/30/23 Analyzed: 07/01/23

Benzene	37.6	1.0	ug/l	41.7	ND	90.2		34-141			
Toluene	57.1	1.0	"	41.7	ND	137		27-151			
Ethylbenzene	50.6	1.0	"	41.7	ND	122		29-160			
m,p-Xylene	102	2.0	"	83.3	ND	123		20-166			
o-Xylene	48.8	1.0	"	41.7	ND	117		33-159			
Naphthalene	50.2	1.0	"	41.7	ND	120		70-130			
1,2,4-Trimethylbenzene	51.9	1.0	"	41.7	ND	125		70-130			
1,3,5-Trimethylbenzene	51.1	1.0	"	41.7	ND	123		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	16.8		"	13.3		126		23-173			
<i>Surrogate: Toluene-d8</i>	14.5		"	13.3		109		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.8		"	13.3		111		21-167			

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 PO Box 1289
 Wellington CO, 80549

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

Reported:
 07/11/23 10:05

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 BGF1137 - EPA 5030 Water MS

Matrix Spike Dup (BGF1137-MSD1)	Source: 2306621-01			Prepared: 06/30/23		Analyzed: 07/01/23				
Benzene	37.4	1.0	ug/l	41.7	ND	89.7	34-141	0.561	30	
Toluene	56.5	1.0	"	41.7	ND	136	27-151	1.04	30	
Ethylbenzene	49.6	1.0	"	41.7	ND	119	29-160	2.07	30	
m,p-Xylene	101	2.0	"	83.3	ND	121	20-166	1.50	30	
o-Xylene	48.0	1.0	"	41.7	ND	115	33-159	1.51	30	
Naphthalene	49.2	1.0	"	41.7	ND	118	70-130	1.87	30	
1,2,4-Trimethylbenzene	51.5	1.0	"	41.7	ND	124	70-130	0.755	30	
1,3,5-Trimethylbenzene	51.2	1.0	"	41.7	ND	123	70-130	0.0782	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>17.2</i>		<i>"</i>	<i>13.3</i>		<i>129</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>14.7</i>		<i>"</i>	<i>13.3</i>		<i>110</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>15.0</i>		<i>"</i>	<i>13.3</i>		<i>113</i>	<i>21-167</i>			

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

Reported:
 07/11/23 10:05

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

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

Batch BGF1116 - EPA 5030 Water MS

Blank (BGF1116-BLK1)

Prepared: 06/30/23 Analyzed: 07/01/23

1-Methylnaphthalene	ND	0.500	ug/l								
2-Methylnaphthalene	ND	0.500	"								
Surrogate: 2-Methylnaphthalene-d10	1.80		"	2.00		89.8	40-150				

LCS (BGF1116-BS1)

Prepared: 06/30/23 Analyzed: 07/01/23

1-Methylnaphthalene	1.67	0.500	ug/l	2.00		83.6	30-120				
2-Methylnaphthalene	1.92	0.500	"	2.00		96.1	0-200				
Surrogate: 2-Methylnaphthalene-d10	1.80		"	2.00		89.9	40-150				

LCS Dup (BGF1116-BSD1)

Prepared: 06/30/23 Analyzed: 07/01/23

1-Methylnaphthalene	1.77	0.500	ug/l	2.00		88.7	30-120	5.88	30		
2-Methylnaphthalene	1.85	0.500	"	2.00		92.3	0-200	4.00	200		
Surrogate: 2-Methylnaphthalene-d10	1.84		"	2.00		92.0	40-150				

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Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 07/11/23 10:05

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BGG0081 - General Preparation

Blank (BGG0081-BLK1)

Prepared: 07/05/23 Analyzed: 07/10/23

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BGG0081-BS1)

Prepared: 07/05/23 Analyzed: 07/10/23

Chloride	3.17	0.0600	mg/L	3.00	106	90-110		
Sulfate	15.6	0.300	"	15.0	104	90-110		

Duplicate (BGG0081-DUP1)

Source: 2306621-01

Prepared: 07/05/23 Analyzed: 07/10/23

Chloride	127	12.0	mg/L		143		12.4	20
Sulfate	2340	60.0	"		2120		10.0	20

Matrix Spike (BGG0081-MS1)

Source: 2306621-01

Prepared: 07/05/23 Analyzed: 07/10/23

Chloride	746	12.0	mg/L	600	143	100	80-120	
Sulfate	5300	60.0	"	3000	2120	106	80-120	

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Project: PDC - Schmunk

Project Number: CO22-010
 Project Manager: Paul Henchan

Reported:
 07/11/23 10:05

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 BGG0043 - General Preparation

Blank (BGG0043-BLK1)

Prepared & Analyzed: 07/03/23

Total Dissolved Solids ND 10.0 mg/L


Duplicate (BGG0043-DUP1)

Source: 2306621-01

Prepared & Analyzed: 07/03/23

Total Dissolved Solids 2580 10.0 mg/L 2440 5.81 20

Summit Scientific



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Fremont Environmental
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Wellington CO, 80549

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

Reported:
07/11/23 10:05

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