

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

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 (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
MW-1 16ft	04/15/2022	16	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-1 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	0.56	<50	<50
MW-2 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	6.2	370	<50
MW-2 8ft	04/15/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	8.5	<50	<50
MW-3 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-3 8ft	04/15/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-4 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-4 8ft	04/15/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-5 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
MW-5 8ft	04/15/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-6 2ft	04/15/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SB-6 8ft	04/15/2022	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
BACKFILL	03/07/2024	Grab	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FLOOR 9FT	03/07/2024	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SS-NE 8FT	03/07/2024	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SS-NW 8FT	03/07/2024	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SS-SE 8FT	03/07/2024	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SS-SW 8FT	03/07/2024	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	2.1	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
MW-1 16ft	4/15/2022	16	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-1 2ft	4/15/2022	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-2 2ft	4/15/2022	2	0.00888	0.015	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00751
MW-2 8ft	4/15/2022	8	0.0146	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0305
MW-3 2ft	4/15/2022	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-3 8ft	4/15/2022	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-4 2ft	4/15/2022	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-4 8ft	4/15/2022	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-5 2ft	4/15/2022	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
MW-5 8ft	4/15/2022	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-6 2ft	4/15/2022	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-6 8ft	4/15/2022	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BACKFILL	03/07/2024	Grab	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FLOOR 9FT	03/07/2024	9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-NE 8FT	03/07/2024	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-NW 8FT	03/07/2024	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-SE 8FT	03/07/2024	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS-SW 8FT	03/07/2024	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.
 = Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BACKFILL	03/07/2024	Grab	8.01	0.22	0.103	<2.00
FLOOR 9FT	03/07/2024	9	8.2	0.396	1.34	<2.00
SS-NE 8FT	03/07/2024	8	8.21	0.387	0.622	<2.00
SS-NW 8FT	03/07/2024	8	8.22	0.7	1.59	<2.00
SS-SE 8FT	03/07/2024	8	8.28	0.619	2.31	<2.00
SS-SW 8FT	03/07/2024	8	8.05	0.4	1.69	<2.00
Maximum Root Background Concentration (0 - 3 ft)			NA	NA	NA	NA
Average Root Background Concentration (0 - 3 ft)			NA	NA	NA	NA
Maximum Background Concentration			NA	NA	NA	NA
Average Background Concentration			NA	NA	NA	NA

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

 = Source material characterization sample, excavated and transported off site for disposal.

 = Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BKG-1 1ft	4/15/2022	1	3.69	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1 2ft	4/15/2022	2	3.54	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKFILL	03/07/2024	Grab	3.33	52.9	<0.200	<0.30	3.56	6	3.68	<0.260	0.0231	15.4
FLOOR 9FT	03/07/2024	9	11.2	40.5	0.263	<0.30	4.84	6.74	4.43	<0.260	<0.0200	16.3
SS-NE 8FT	03/07/2024	8	4.27	97.3	0.243	<0.30	3.8	6.48	4.89	<0.260	0.0323	17.3
SS-NW 8FT	03/07/2024	8	3.33	44.8	<0.200	<0.30	3.11	5.04	3.86	<0.260	<0.0200	15.6
SS-SE 8FT	03/07/2024	8	3.14	61.6	<0.200	<0.30	3.38	5.07	4.1	<0.260	0.0207	16.1
SS-SW 8FT	03/07/2024	8	4.13	37.4	<0.200	<0.30	3.81	6.46	4.83	<0.260	0.0215	18.4
Maximum Root Zone Background Concentration (0 - 3 ft)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
125% Average Root Zone Background Concentration (0 - 3 ft)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maximum Background Concentration			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
125% Average Background Concentration			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

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)	1-Methyl- Naphthalene (µg/L)	2-Methyl- Naphthalene (µg/L)	TOC Elevation (ft)	Depth to Groundwater Below TOC (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67	NL	NL				
MW-1	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	100	4.35	95.65	NP
	7/25/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		2.91	97.09	NP
	10/19/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.16	96.84	NP
MW-2	4/15/2022	12	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	101.26	4.69	96.57	NP
	7/25/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.28	97.98	NP
	10/19/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.45	97.81	NP
MW-3	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	100.61	4.87	95.74	NP
	7/25/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.41	97.2	NP
	10/19/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.65	96.96	NP
MW-4	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	100.19	4.49	95.7	NP
	7/25/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.09	97.1	NP
	10/19/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.33	96.86	NP
MW-5	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	100.45	4.92	95.53	NP
	7/25/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.53	96.92	NP
	10/19/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA		3.75	96.7	NP
W1	03/07/2024	<1.0	<1.0	<1.0	9.9	<1.0	<1.0	<1.0	1.26	<0.500	NA	NA	NA	NA

1. Bold values exceed the ECMC limit(s)

2. Red highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, NL - No Limit, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

TABLE 6
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE 100322
WEBSTER 15-28, WELD COUNTY, COLORADO
REM # 20954

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
MW-1	4/15/2022	1050	32.6	368
	7/25/2022	563	17.6	166
	10/19/2022	564	19.25	131
MW-2	4/15/2022	900	34.6	370
	7/25/2022	904	25.4	373
	10/19/2022	816	26.4	340
MW-3	4/15/2022	998	47	430
	7/25/2022	939	28.6	378
	10/19/2022	776	21.2	277
MW-4	4/15/2022	1020	38.2	436
	7/25/2022	1060	35.4	480
	10/19/2022	792	10.4	328
MW-5	4/15/2022	1130	53.2	493
	7/25/2022	1210	51.8	568
	10/19/2022	974	33.2	443
Background Concentration (Current)		NA	NA	NA

1. Bold values exceed the ECMC limit(s)

2. Blue highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 21, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

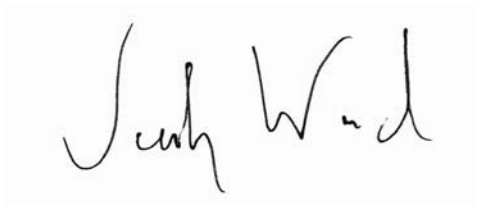
Wellington, CO 80549

RE: Noble - Webster 15-28 (Excavation)

Work Order #2403117

Enclosed are the results of analyses for samples received by Summit Scientific on 03/07/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)

Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-NE 8FT	2403117-01	Soil	03/07/24 00:00	03/07/24 16:30
SS-NW 8FT	2403117-02	Soil	03/07/24 00:00	03/07/24 16:30
SS-SE 8FT	2403117-03	Soil	03/07/24 00:00	03/07/24 16:30
SS-SW 8FT	2403117-04	Soil	03/07/24 00:00	03/07/24 16:30
FLOOR 9FT	2403117-05	Soil	03/07/24 00:00	03/07/24 16:30
BACKFILL	2403117-06	Soil	03/07/24 00:00	03/07/24 16:30
W1	2403117-07	Water	03/07/24 00:00	03/07/24 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.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2403117	

Client: Fremont Environmental, Inc.	Send Data To:	Send Invoice To:
Address: 8305 6th St.	Project Manager: Henshan	Company: Chevron
City/State/Zip: Wellington, CO, 80549	E-Mail: Chevron Dist. List, PDC Dist. List, Civitas Dist. List	Project Name/Location:
Phone: 603-477-6907	Fremont Dist. List (@fremontenv.com): paulH, ethanB, nickL, mikeG, jeffG, chrisL, stanG, aaronO	AFE#:
Sampler Name: Ethan Black	Project Name: Noble - Webster IS-28 (Excavation)	PO/Billing Codes: UWRWE-A1884-ABN
	Project Number:	Contact: Dan P.

					Preservative				Matrix			Analysis Requested							Special Instructions			
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	TDS, Chloride, Sulfate				
1	SS - NE 8FT	3/7/24		2			X			X			X	X	X	X	X					
2	SS - NW 8FT																					
3	SS - SE 8FT																					
4	SS - SW 8FT																					
5	FLOOR 9FT																					
6	BACKFILL																					
7	W1			5	X				X													Run 1-and-2 MW only
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: Ethan Black	Date/Time: 3/7/24 1330	Received by: S2 - North Office	Date/Time: 3/7/24 1330	TAT Business Days	Field DO	Notes: Please run 1-and-2 MN (PAH) only for W1 Sample.
Relinquished by: S2	Date/Time: 3/7/24 1030	Received by: 	Date/Time: 3/7/24 1030	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 10-6	Corrected Temperature: 10-6	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2403117Client: FremontClient Project ID: Noble-Webster 15-28 (Excavation)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: _____

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☒

Other

☐

Temp (°C)

10.4

Thermometer #

1

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

Additional Comments (if any):

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

3/7/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NE 8FT
2403117-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	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: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.23	57.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NE 8FT
2403117-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0217	65.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0271	81.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 00:00**

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

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

**SS-NE 8FT
2403117-01 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.27	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	97.3	0.400	"	"	"	"	"	"
Cadmium	0.243	0.200	"	"	"	"	"	"
Copper	3.80	0.400	"	"	"	"	"	"
Lead	6.48	0.200	"	"	"	"	"	"
Nickel	4.89	0.400	"	"	"	"	"	"
Silver	0.0323	0.0200	"	"	"	"	"	"
Zinc	17.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.8	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	19.3	0.0500	"	"	"	"	"	"	
Sodium	20.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.622	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

**SS-NE 8FT
2403117-01 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.8	%	1	BHC0364	03/13/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.387	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

Summit Scientific

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NW 8FT
2403117-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	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: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0414	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.91	63.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NW 8FT
2403117-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0164	49.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NW 8FT
2403117-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.33	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	44.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.11	0.400	"	"	"	"	"	"
Lead	5.04	0.200	"	"	"	"	"	"
Nickel	3.86	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	15.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.8	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	14.8	0.0500	"	"	"	"	"	"	
Sodium	42.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.59	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-NW 8FT
2403117-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.1		%	1	BHC0364	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.700	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SE 8FT
2403117-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	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: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.78	54.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SE 8FT
2403117-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0171	51.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SE 8FT
2403117-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.14	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	61.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.38	0.400	"	"	"	"	"	"
Lead	5.07	0.200	"	"	"	"	"	"
Nickel	4.10	0.400	"	"	"	"	"	"
Silver	0.0207	0.0200	"	"	"	"	"	"
Zinc	16.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.6	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	26.8	0.0500	"	"	"	"	"	"	
Sodium	77.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.31	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SE 8FT
2403117-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.3		%	1	BHC0364	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.619	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SW 8FT
2403117-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	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	2.1	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.84	54.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SW 8FT
2403117-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0209	62.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

SS-SW 8FT
2403117-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.13	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	37.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.81	0.400	"	"	"	"	"	"
Lead	6.46	0.200	"	"	"	"	"	"
Nickel	4.83	0.400	"	"	"	"	"	"
Silver	0.0215	0.0200	"	"	"	"	"	"
Zinc	18.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.6	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	24.3	0.0500	"	"	"	"	"	"	
Sodium	58.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.69	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

**SS-SW 8FT
2403117-04 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.1		%	1	BHC0364	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.400	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

FLOOR 9FT
2403117-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	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: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.07	72.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

FLOOR 9FT
2403117-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

FLOOR 9FT
2403117-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	11.2	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	40.5	0.400	"	"	"	"	"	"
Cadmium	0.263	0.200	"	"	"	"	"	"
Copper	4.84	0.400	"	"	"	"	"	"
Lead	6.74	0.200	"	"	"	"	"	"
Nickel	4.43	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	16.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.0	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	13.2	0.0500	"	"	"	"	"	"	
Sodium	35.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.34	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

FLOOR 9FT
2403117-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.0		%	1	BHC0364	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.396	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

BACKFILL
2403117-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0202	03/07/24	03/08/24	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: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0417	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0200	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

BACKFILL
2403117-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0212	03/08/24	03/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0440	03/15/24	03/20/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

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03/21/24 12:08

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2403117-06 (Soil)

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Total Metals by EPA 6020B

Arsenic	3.33	0.200	mg/kg dry	1	BHC0368	03/13/24	03/17/24	EPA 6020B
Barium	52.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.56	0.400	"	"	"	"	"	"
Lead	6.00	0.200	"	"	"	"	"	"
Nickel	3.68	0.400	"	"	"	"	"	"
Silver	0.0231	0.0200	"	"	"	"	"	"
Zinc	15.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0531	03/15/24	03/18/24	EPA 7196A	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.2	0.0500	mg/L dry	1	BHC0287	03/11/24	03/16/24	EPA 6020B	
Magnesium	4.71	0.0500	"	"	"	"	"	"	
Sodium	2.28	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.103	0.00100	units	1	BHC0639	03/18/24	03/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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BACKFILL
2403117-06 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BHC0364	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.220	0.0100	mmhos/cm	1	BHC0289	03/11/24	03/13/24	EPA 120.1	

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

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BHC0288	03/11/24	03/13/24	EPA 9045D	

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Project Manager: Paul Henchan

Reported:
03/21/24 12:08

W1
2403117-07 (Water)

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Volatile Organic Compounds by EPA Method 8260B

HDSP

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHC0194	03/07/24	03/07/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	9.9	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	11.8	88.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.5	101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.4	108 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	1.26	0.500	ug/l	1	BHC0222	03/08/24	03/09/24	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/07/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.83	91.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	2.23	111 %	40-150		"	"	"	"	

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHC0194 - EPA 5030 Water MS

Blank (BHC0194-BLK1)

Prepared & Analyzed: 03/07/24

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	12.8		"	13.3		96.2	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

LCS (BHC0194-BS1)

Prepared & Analyzed: 03/07/24

Benzene	37.0	1.0	ug/l	33.3		111	51-132			
Toluene	34.6	1.0	"	33.3		104	51-138			
Ethylbenzene	44.3	1.0	"	33.3		133	58-146			
m,p-Xylene	90.3	2.0	"	66.7		135	57-144			
o-Xylene	43.7	1.0	"	33.3		131	53-146			
Naphthalene	24.4	1.0	"	33.3		73.1	70-130			
1,2,4-Trimethylbenzene	39.4	1.0	"	33.3		118	70-130			
1,3,5-Trimethylbenzene	39.1	1.0	"	33.3		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.6		"	13.3		169	23-173			
Surrogate: Toluene-d8	13.9		"	13.3		104	20-170			
Surrogate: 4-Bromofluorobenzene	10.7		"	13.3		80.2	21-167			

Matrix Spike (BHC0194-MS1)

Source: 2403062-01

Prepared & Analyzed: 03/07/24

Benzene	33.0	1.0	ug/l	33.3	ND	98.9	34-141			
Toluene	31.4	1.0	"	33.3	ND	94.2	27-151			
Ethylbenzene	29.9	1.0	"	33.3	ND	89.8	29-160			
m,p-Xylene	61.5	2.0	"	66.7	ND	92.2	20-166			
o-Xylene	30.3	1.0	"	33.3	ND	90.9	33-159			
Naphthalene	25.8	1.0	"	33.3	ND	77.3	70-130			
1,2,4-Trimethylbenzene	26.6	1.0	"	33.3	ND	79.8	70-130			
1,3,5-Trimethylbenzene	27.2	1.0	"	33.3	ND	81.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		93.1	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		105	21-167			

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

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

Batch BHC0194 - EPA 5030 Water MS

Matrix Spike Dup (BHC0194-MSD1)			Source: 2403062-01		Prepared & Analyzed: 03/07/24					
Benzene	33.9	1.0	ug/l	33.3	ND	102	34-141	2.84	30	
Toluene	32.0	1.0	"	33.3	ND	96.1	27-151	1.99	30	
Ethylbenzene	31.4	1.0	"	33.3	ND	94.3	29-160	4.92	30	
m,p-Xylene	63.5	2.0	"	66.7	ND	95.3	20-166	3.28	30	
o-Xylene	31.3	1.0	"	33.3	ND	93.8	33-159	3.18	30	
Naphthalene	27.4	1.0	"	33.3	ND	82.2	70-130	6.21	30	
1,2,4-Trimethylbenzene	28.6	1.0	"	33.3	ND	85.7	70-130	7.18	30	
1,3,5-Trimethylbenzene	28.5	1.0	"	33.3	ND	85.5	70-130	4.81	30	
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		93.2	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		104	21-167			

Batch BHC0202 - EPA 5030 Soil MS

Blank (BHC0202-BLK1)			Prepared: 03/07/24 Analyzed: 03/08/24							
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	0.0318		"	0.0400		79.6	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.5	50-150			

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHC0202 - EPA 5030 Soil MS

LCS (BHC0202-BS1)

Prepared: 03/07/24 Analyzed: 03/08/24

Benzene	0.0920	0.0020	mg/kg	0.100		92.0	70-130			
Toluene	0.0902	0.0050	"	0.100		90.2	70-130			
Ethylbenzene	0.0934	0.0050	"	0.100		93.4	70-130			
m,p-Xylene	0.192	0.010	"	0.200		96.2	70-130			
o-Xylene	0.0947	0.0050	"	0.100		94.7	70-130			
1,2,4-Trimethylbenzene	0.0906	0.0050	"	0.100		90.6	70-130			
1,3,5-Trimethylbenzene	0.0933	0.0050	"	0.100		93.3	70-130			
Naphthalene	0.0708	0.0038	"	0.100		70.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0310		"	0.0400		77.6	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.3	50-150			

Matrix Spike (BHC0202-MS1)

Source: 2403113-01

Prepared: 03/07/24 Analyzed: 03/08/24

Benzene	0.0890	0.0020	mg/kg	0.100	ND	89.0	70-130			
Toluene	0.0832	0.0050	"	0.100	ND	83.2	70-130			
Ethylbenzene	0.0994	0.0050	"	0.100	ND	99.4	70-130			
m,p-Xylene	0.204	0.010	"	0.200	ND	102	70-130			
o-Xylene	0.0986	0.0050	"	0.100	ND	98.6	70-130			
1,2,4-Trimethylbenzene	0.0922	0.0050	"	0.100	ND	92.2	70-130			
1,3,5-Trimethylbenzene	0.0955	0.0050	"	0.100	ND	95.5	70-130			
Naphthalene	0.0897	0.0038	"	0.100	ND	89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0357		"	0.0400		89.2	50-150			
Surrogate: Toluene-d8	0.0434		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0492		"	0.0400		123	50-150			

Matrix Spike Dup (BHC0202-MSD1)

Source: 2403113-01

Prepared: 03/07/24 Analyzed: 03/08/24

Benzene	0.0943	0.0020	mg/kg	0.100	ND	94.3	70-130	5.73	30	
Toluene	0.0881	0.0050	"	0.100	ND	88.1	70-130	5.64	30	
Ethylbenzene	0.0942	0.0050	"	0.100	ND	94.2	70-130	5.36	30	
m,p-Xylene	0.196	0.010	"	0.200	ND	98.0	70-130	3.95	30	
o-Xylene	0.0959	0.0050	"	0.100	ND	95.9	70-130	2.72	30	
1,2,4-Trimethylbenzene	0.0875	0.0050	"	0.100	ND	87.5	70-130	5.27	30	
1,3,5-Trimethylbenzene	0.0920	0.0050	"	0.100	ND	92.0	70-130	3.78	30	
Naphthalene	0.0902	0.0038	"	0.100	ND	90.2	70-130	0.600	30	
Surrogate: 1,2-Dichloroethane-d4	0.0345		"	0.0400		86.3	50-150			
Surrogate: Toluene-d8	0.0507		"	0.0400		127	50-150			
Surrogate: 4-Bromofluorobenzene	0.0509		"	0.0400		127	50-150			

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0200 - EPA 3550A

Blank (BHC0200-BLK1)

Prepared: 03/07/24 Analyzed: 03/08/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.2		"	12.5		89.5	30-150			

LCS (BHC0200-BS1)

Prepared: 03/07/24 Analyzed: 03/08/24

C10-C28 (DRO)	487	50	mg/kg	500		97.4	70-130			
Surrogate: o-Terphenyl	11.3		"	12.5		90.1	30-150			

Matrix Spike (BHC0200-MS1)

Source: 2403113-01

Prepared: 03/07/24 Analyzed: 03/08/24

C10-C28 (DRO)	455	50	mg/kg	500	36.4	83.8	70-130			
Surrogate: o-Terphenyl	9.06		"	12.5		72.5	30-150			

Matrix Spike Dup (BHC0200-MSD1)

Source: 2403113-01

Prepared: 03/07/24 Analyzed: 03/08/24

C10-C28 (DRO)	499	50	mg/kg	500	36.4	92.5	70-130	9.09	20	
Surrogate: o-Terphenyl	10.4		"	12.5		83.5	30-150			

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Reported:
03/21/24 12:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0212 - EPA 5030 Soil MS

Blank (BHC0212-BLK1)

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0387	"	0.0333	116	40-150
Surrogate: Fluoranthene-d10	0.0361	"	0.0333	108	40-150

LCS (BHC0212-BS1)

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	0.0347	0.00500	mg/kg	0.0333	104	31-137
Anthracene	0.0344	0.00500	"	0.0333	103	30-120
Benzo (a) anthracene	0.0329	0.00500	"	0.0333	98.6	30-120
Benzo (a) pyrene	0.0294	0.00500	"	0.0333	88.2	30-120
Benzo (b) fluoranthene	0.0288	0.00500	"	0.0333	86.3	30-120
Benzo (k) fluoranthene	0.0349	0.00500	"	0.0333	105	30-120
Chrysene	0.0361	0.00500	"	0.0333	108	30-120
Dibenz (a,h) anthracene	0.0298	0.00500	"	0.0333	89.4	30-120
Fluoranthene	0.0331	0.00500	"	0.0333	99.3	30-120
Fluorene	0.0351	0.00500	"	0.0333	105	30-120
Indeno (1,2,3-cd) pyrene	0.0301	0.00500	"	0.0333	90.2	30-120
Pyrene	0.0406	0.00500	"	0.0333	122	35-142
1-Methylnaphthalene	0.0316	0.00500	"	0.0333	94.7	35-142
2-Methylnaphthalene	0.0160	0.00500	"	0.0333	47.9	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0317	"	0.0333	95.1	40-150
Surrogate: Fluoranthene-d10	0.0339	"	0.0333	102	40-150

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0212 - EPA 5030 Soil MS

Matrix Spike (BHC0212-MS1)

Source: 2403113-01

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	0.0249	0.00500	mg/kg	0.0333	ND	74.7	31-137			
Anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120			
Benzo (a) anthracene	0.0213	0.00500	"	0.0333	ND	64.0	30-120			
Benzo (a) pyrene	0.0184	0.00500	"	0.0333	ND	55.1	30-120			
Benzo (b) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.6	30-120			
Benzo (k) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120			
Chrysene	0.0246	0.00500	"	0.0333	ND	73.8	30-120			
Dibenz (a,h) anthracene	0.0293	0.00500	"	0.0333	ND	88.0	30-120			
Fluoranthene	0.0217	0.00500	"	0.0333	ND	65.0	30-120			
Fluorene	0.0250	0.00500	"	0.0333	ND	75.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0283	0.00500	"	0.0333	ND	85.0	30-120			
Pyrene	0.0227	0.00500	"	0.0333	ND	68.1	35-142			
1-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.4	15-130			
2-Methylnaphthalene	0.0317	0.00500	"	0.0333	ND	95.0	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0164		"	0.0333		49.3	40-150			
Surrogate: Fluoranthene-d10	0.0228		"	0.0333		68.4	40-150			

Matrix Spike Dup (BHC0212-MSD1)

Source: 2403113-01

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	0.0148	0.00500	mg/kg	0.0333	ND	44.4	31-137	51.0	30	QR-02
Anthracene	0.0159	0.00500	"	0.0333	ND	47.8	30-120	16.8	30	
Benzo (a) anthracene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	22.4	30	
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	15.8	30	
Benzo (b) fluoranthene	0.0133	0.00500	"	0.0333	ND	40.0	30-120	10.9	30	
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.0	30-120	2.75	30	
Chrysene	0.0142	0.00500	"	0.0333	ND	42.7	30-120	53.5	30	QR-02
Dibenz (a,h) anthracene	0.0231	0.00500	"	0.0333	ND	69.2	30-120	24.0	30	
Fluoranthene	0.0142	0.00500	"	0.0333	ND	42.6	30-120	41.7	30	QR-02
Fluorene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	51.8	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0231	0.00500	"	0.0333	ND	69.3	30-120	20.3	30	
Pyrene	0.0144	0.00500	"	0.0333	ND	43.2	35-142	44.8	30	QR-02
1-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.1	15-130	23.7	50	
2-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	70.0	15-130	30.2	50	
Surrogate: 2-Methylnaphthalene-d10	0.0136		"	0.0333		40.7	40-150			
Surrogate: Fluoranthene-d10	0.0145		"	0.0333		43.6	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0222 - EPA 5030 Water MS

Blank (BHC0222-BLK1)

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	ND	0.500	ug/l							
Acenaphthylene	ND	0.200	"							
Anthracene	ND	0.200	"							
Benzo (a) anthracene	ND	0.100	"							
Benzo (b) fluoranthene	ND	0.200	"							
Benzo (k) fluoranthene	ND	0.200	"							
Benzo (g,h,i) perylene	ND	0.200	"							
Benzo (a) pyrene	ND	0.200	"							
Chrysene	ND	0.200	"							
Dibenz (a,h) anthracene	ND	0.200	"							
Fluoranthene	ND	2.00	"							
Fluorene	ND	0.200	"							
Indeno (1,2,3-cd) pyrene	ND	0.300	"							
Phenanthrene	ND	0.500	"							
Pyrene	ND	1.00	"							
1-Methylnaphthalene	ND	0.500	"							
2-Methylnaphthalene	ND	0.500	"							
Surrogate: 2-Methylnaphthalene-d10	2.52		"	2.00		126	40-150			
Surrogate: Fluoranthene-d10	1.63		"	2.00		81.3	40-150			

LCS (BHC0222-BS1)

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	2.34	0.500	ug/l	2.00		117	30-120			
Acenaphthylene	2.25	0.200	"	2.00		113	30-120			
Anthracene	2.24	0.200	"	2.00		112	30-120			
Benzo (a) anthracene	2.32	0.100	"	2.00		116	30-120			
Benzo (b) fluoranthene	2.33	0.200	"	2.00		116	30-120			
Benzo (k) fluoranthene	2.23	0.200	"	2.00		112	30-120			
Benzo (g,h,i) perylene	2.19	0.200	"	2.00		109	30-120			
Benzo (a) pyrene	2.02	0.200	"	2.00		101	30-120			
Chrysene	2.21	0.200	"	2.00		111	30-120			
Dibenz (a,h) anthracene	2.34	0.200	"	2.00		117	30-120			
Fluoranthene	2.29	2.00	"	2.00		115	30-120			
Fluorene	2.39	0.200	"	2.00		119	30-120			
Indeno (1,2,3-cd) pyrene	2.30	0.300	"	2.00		115	30-120			
Phenanthrene	2.26	0.500	"	2.00		113	30-120			
Pyrene	2.22	1.00	"	2.00		111	30-120			
1-Methylnaphthalene	2.13	0.500	"	2.00		106	30-120			
2-Methylnaphthalene	2.15	0.500	"	2.00		107	0-200			

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Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0222 - EPA 5030 Water MS

LCS (BHC0222-BS1)

Prepared: 03/08/24 Analyzed: 03/09/24

Surrogate: 2-Methylnaphthalene-d10	1.66	ug/l	2.00	83.2	40-150
Surrogate: Fluoranthene-d10	1.95	"	2.00	97.4	40-150

LCS Dup (BHC0222-BS1)

Prepared: 03/08/24 Analyzed: 03/09/24

Acenaphthene	2.27	0.500	ug/l	2.00	113	30-120	2.91	30
Acenaphthylene	2.20	0.200	"	2.00	110	30-120	2.51	30
Anthracene	2.38	0.200	"	2.00	119	30-120	6.12	30
Benzo (a) anthracene	2.29	0.100	"	2.00	115	30-120	1.16	30
Benzo (b) fluoranthene	2.31	0.200	"	2.00	115	30-120	0.708	30
Benzo (k) fluoranthene	2.39	0.200	"	2.00	120	30-120	6.90	30
Benzo (g,h,i) perylene	2.34	0.200	"	2.00	117	30-120	6.78	30
Benzo (a) pyrene	2.28	0.200	"	2.00	114	30-120	12.3	30
Chrysene	2.22	0.200	"	2.00	111	30-120	0.460	30
Dibenz (a,h) anthracene	2.38	0.200	"	2.00	119	30-120	1.83	30
Fluoranthene	2.33	2.00	"	2.00	117	30-120	1.71	30
Fluorene	2.30	0.200	"	2.00	115	30-120	3.97	30
Indeno (1,2,3-cd) pyrene	2.35	0.300	"	2.00	118	30-120	2.45	30
Phenanthrene	2.05	0.500	"	2.00	103	30-120	9.55	30
Pyrene	2.18	1.00	"	2.00	109	30-120	2.04	30
1-Methylnaphthalene	2.23	0.500	"	2.00	111	30-120	4.60	30
2-Methylnaphthalene	2.37	0.500	"	2.00	119	0-200	9.96	200
Surrogate: 2-Methylnaphthalene-d10	1.65		"	2.00	82.5	40-150		
Surrogate: Fluoranthene-d10	2.82		"	2.00	141	40-150		

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Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

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

Batch BHC0440 - EPA 3050B

Blank (BHC0440-BLK1)

Prepared: 03/15/24 Analyzed: 03/20/24

Boron ND 2.00 mg/L

LCS (BHC0440-BS1)

Prepared: 03/15/24 Analyzed: 03/20/24

Boron 5.07 2.00 mg/L 5.00 101 80-120

Duplicate (BHC0440-DUP1)

Source: 2403117-01

Prepared: 03/15/24 Analyzed: 03/20/24

Boron 0.187 2.00 mg/L 0.224 17.7 20

Matrix Spike (BHC0440-MS1)

Source: 2403117-01

Prepared: 03/15/24 Analyzed: 03/20/24

Boron 4.97 2.00 mg/L 5.00 0.224 95.0 75-125

Matrix Spike Dup (BHC0440-MSD1)

Source: 2403117-01

Prepared: 03/15/24 Analyzed: 03/20/24

Boron 5.15 2.00 mg/L 5.00 0.224 98.5 75-125 3.47 25

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0368 - EPA 3050B

Blank (BHC0368-BLK1)

Prepared: 03/13/24 Analyzed: 03/17/24

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

LCS (BHC0368-BS1)

Prepared: 03/13/24 Analyzed: 03/17/24

Arsenic	41.8	0.200	mg/kg wet	40.0	105	80-120
Barium	42.7	0.400	"	40.0	107	80-120
Cadmium	2.01	0.200	"	2.00	101	80-120
Copper	42.1	0.400	"	40.0	105	80-120
Lead	20.3	0.200	"	20.0	102	80-120
Nickel	41.6	0.400	"	40.0	104	80-120
Silver	2.05	0.0200	"	2.00	102	80-120
Zinc	41.3	0.400	"	40.0	103	80-120
Selenium	3.73	0.260	"	4.00	93.3	80-120

Duplicate (BHC0368-DUP1)

Source: 2401464-02RE1

Prepared: 03/13/24 Analyzed: 03/17/24

Arsenic	3.54	0.200	mg/kg wet	3.22	9.41	20
Barium	91.5	0.400	"	87.5	4.48	20
Cadmium	0.164	0.200	"	0.164	0.244	20
Copper	7.55	0.400	"	8.00	5.81	20
Lead	7.48	0.200	"	7.67	2.55	20
Nickel	4.92	0.400	"	4.78	3.01	20
Silver	0.0344	0.0200	"	0.0452	27.1	20
Zinc	17.7	0.400	"	18.6	4.66	20
Selenium	ND	0.260	"	ND		20

QR-01

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Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0368 - EPA 3050B

Matrix Spike (BHC0368-MS1)

Source: 2401464-02RE1

Prepared: 03/13/24 Analyzed: 03/17/24

Arsenic	46.2	0.200	mg/kg wet	40.0	3.22	107	75-125			
Barium	128	0.400	"	40.0	87.5	102	75-125			
Cadmium	2.27	0.200	"	2.00	0.164	105	75-125			
Copper	31.6	0.400	"	40.0	8.00	58.9	75-125			QM-05
Lead	29.9	0.200	"	20.0	7.67	111	75-125			
Nickel	27.9	0.400	"	40.0	4.78	57.7	75-125			QM-05
Silver	2.08	0.0200	"	2.00	0.0452	102	75-125			
Zinc	42.4	0.400	"	40.0	18.6	59.7	75-125			QM-05
Selenium	3.61	0.260	"	4.00	ND	90.2	75-125			

Matrix Spike Dup (BHC0368-MSD1)

Source: 2401464-02RE1

Prepared: 03/13/24 Analyzed: 03/17/24

Arsenic	46.1	0.200	mg/kg wet	40.0	3.22	107	75-125	0.183	25	
Barium	128	0.400	"	40.0	87.5	101	75-125	0.585	25	
Cadmium	2.27	0.200	"	2.00	0.164	105	75-125	0.106	25	
Copper	31.6	0.400	"	40.0	8.00	58.9	75-125	0.0101	25	QM-05
Lead	29.8	0.200	"	20.0	7.67	111	75-125	0.217	25	
Nickel	27.8	0.400	"	40.0	4.78	57.7	75-125	0.0172	25	QM-05
Silver	2.08	0.0200	"	2.00	0.0452	102	75-125	0.135	25	
Zinc	42.4	0.400	"	40.0	18.6	59.7	75-125	0.0443	25	QM-05
Selenium	3.65	0.260	"	4.00	ND	91.2	75-125	1.15	25	

Summit Scientific

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0531 - 3060A Mod

Blank (BHC0531-BLK1)

Prepared: 03/15/24 Analyzed: 03/18/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0531-BS1)

Prepared: 03/15/24 Analyzed: 03/18/24

Chromium, Hexavalent 24.2 0.30 mg/kg wet 25.0 96.8 80-120

Duplicate (BHC0531-DUP1)

Source: 2403095-01

Prepared: 03/15/24 Analyzed: 03/18/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0531-MS1)

Source: 2403095-01

Prepared: 03/15/24 Analyzed: 03/18/24

Chromium, Hexavalent 26.4 0.30 mg/kg dry 27.7 ND 95.2 75-125

Matrix Spike Dup (BHC0531-MSD1)

Source: 2403095-01

Prepared: 03/15/24 Analyzed: 03/18/24

Chromium, Hexavalent 26.4 0.30 mg/kg dry 27.7 ND 95.2 75-125 0.00 20

Summit Scientific

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

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

Batch BHC0287 - General Preparation

Blank (BHC0287-BLK1)

Prepared: 03/11/24 Analyzed: 03/16/24

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

LCS (BHC0287-BS1)

Prepared: 03/11/24 Analyzed: 03/16/24

Calcium	5.36	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.06	0.0500	"	5.00	101	70-130
Sodium	5.05	0.0500	"	5.00	101	70-130

Summit Scientific

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Project: Noble - Webster 15-28 (Excavation)

Project Number: UWRWE-A1884-ABN

Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

Summit Scientific

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

Batch BHC0364 - General Preparation

Duplicate (BHC0364-DUP1)		Source: 2403093-01			Prepared: 03/13/24 Analyzed: 03/16/24						
% Solids	84.7		%		88.8			4.75		20	

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Project: Noble - Webster 15-28 (Excavation)
Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

Summit Scientific

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

Batch BHC0289 - General Preparation

Blank (BHC0289-BLK1)

Prepared: 03/11/24 Analyzed: 03/13/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC0289-BS1)

Prepared: 03/11/24 Analyzed: 03/13/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHC0289-DUP1)

Source: 2403095-01

Prepared: 03/11/24 Analyzed: 03/13/24

Specific Conductance (EC) 0.497 0.0100 mmhos/cm 0.514 3.42 20

Summit Scientific

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Project: Noble - Webster 15-28 (Excavation)

Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

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

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

Batch BHC0288 - General Preparation

LCS (BHC0288-BS1)

Prepared: 03/11/24 Analyzed: 03/13/24

pH	9.03	pH Units	9.18	98.4	95-105
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Duplicate (BHC0288-DUP1)

Source: 2403095-01

Prepared: 03/11/24 Analyzed: 03/13/24

pH	8.33	pH Units	8.45	1.43	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Webster 15-28 (Excavation)

Project Number: UWRWE-A1884-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 12:08

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
HDSP	Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
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