

March 27, 2024

Noble Energy, Inc – Boulter 64N65W 11NWSW

Site Investigation Update

NWSW Sec. 11, T4N, R65W

40.325464, -104.635428

Weld County, Colorado

Fremont Project No. C023-030

Facility # 319550, Remediation # 25984

Site Overview – Site History

The site consists of the former Boulter 64N65W 11NWSW facility. A historical release was identified at the separator dumpline and produced water vault (PWV) during decommissioning activities on January 25, 2023. A comprehensive site investigation was undertaken to define the magnitude and extent of soil impacts. Soil impacts will be removed via excavation at and adjacent to the former separator dumpline and PWV location. The proposed dimensions of the excavation extent are estimated to be 150'x80'x5' deep. Groundwater was encountered at five feet during the site investigation.

Conceptual Site Model*

*Data presented represents the most recent sampling event

- **Land Use** – Rangeland
- **Lithology (USCS)** – CH to OL
- **Potential Receptors within ¼ mile** – 212 feet west to nearest wetland (18.35 acre freshwater emergent)
- **Groundwater Encountered** – Yes
- **Estimated Depth to Groundwater** – Five feet
- **Impacted Media and Excavation Extent** – Groundwater and Soil – 150'x80'x5' deep
- **Volume of Impacts Removed** – Impacts remain in situ
- **Waste Type** – Non-hazardous (hydrocarbon impacted soil)

Contaminants of Concern (COC)

The laboratory data indicate organic and inorganic soil constituents in 18 of the 19 samples exceed the ECMC Table 915-1 standards in samples collected during the October 19, 2023 supplemental site investigation conducted at and adjacent to the former separator dumpline and PWV location. COCs include the entire suite of ECMC Table 915-1 constituents. The soil and groundwater analytical data are summarized in Tables 1-5. A copy of the laboratory's report, quality control data, and chain-of-custody documentation is attached.

Remedial Actions

The source will be excavated, and confirmation soil samples will be collected and analyzed for the full Table 915 suite. If groundwater is encountered during the excavation of impacted soil, a groundwater sample(s) will be collected for Table 915 organic constituents in groundwater (BTEX, 1,2,4 Trimethylbenzene, 1,3,5 Trimethylbenzene, and Naphthalene). Should no additional active remediation be required following source removal at the location, a

no further action (NFA) determination will be requested within 90 days following laboratory confirmation of the removal of impacted soils with respect to the applicable Table 915-1 screening levels at the site.

If groundwater impacts are observed, an NFA will be requested once four consecutive quarters of groundwater sampling have been completed and reported at the location with concentrations of Table 915 constituents below regulatory limits. As needed, soil and/or groundwater remediation plans will be developed and submitted to ECMC in a supplemental Form 27.

Remarks

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



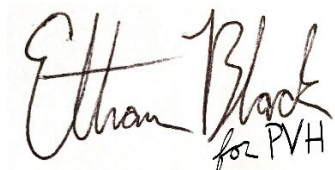
3/27/24

Date _____

Ethan D. Black, P.G.

Geologist

Reviewed by:



3/27/24

Date _____

Paul V. Henehan, P.E.

Senior Consultant

Attachments:

Tables
Figures
Boring Logs
Laboratory Report

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
BOULTER 64N65W 11NWSW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-020

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500		
AST CEN. SURF.	01/25/2023	Surface	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
DE TRENCH E WALL 3FT	01/25/2023	3	0.019	<0.0050	0.37	0.016	8.3	<0.0050	0.09	61	<50	<50
PWV E WALL 4FT	01/25/2023	4	<0.0020	<0.0050	<0.0050	<0.010	0.0063	0.015	<0.0038	2.1	<50	<50
SEP. SURF	01/25/2023	Surface	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-PWV Cen. 4FT	10/19/2023	4	<0.0020	<0.0050	0.052	<0.010	0.0071	<0.0050	0.014	580	740	56
SB-PWV E 7FT	10/19/2023	7	<0.0020	<0.0050	0.0064	0.019	0.038	0.027	0.023	470	180	<50
SB-PWV E2 5FT	10/19/2023	5	0.0055	<0.0050	8.7	<0.010	48	36	0.079	3000	530	<50
SB-PWV E3 7FT	10/19/2023	7	<0.0020	<0.0050	<0.0050	0.031	0.022	0.013	0.014	<0.50	<50	<50
SB-PWV N 7FT	10/19/2023	7	<0.0020	<0.0050	0.039	0.27	0.88	0.43	0.083	48	<50	<50
SB-PWV N2 7FT	10/19/2023	7	<0.0020	<0.0050	1.1	22	15	10	0.22	780	240	<50
SB-PWV N3 6FT	10/19/2023	6	<0.0020	<0.0050	0.022	0.075	0.83	0.19	0.06	97	120	<50
SB-PWV S 8FT	10/19/2023	8	0.025	<0.0050	1.2	3.6	23	14	1.4	970	410	<50
SB-PWV S2 6FT	10/19/2023	6	<0.0020	<0.0050	0.059	0.11	14	7.7	1	460	250	<50
SB-PWV W 7FT	10/19/2023	7	<0.0020	<0.0050	0.013	0.011	0.0081	<0.0050	0.01	270	250	<50
SB-PWV W2 7FT	10/19/2023	7	0.024	<0.0050	1.3	1.6	15	9.7	0.3	750	180	<50
SB-Sep E 6FT	10/19/2023	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-Sep N 6FT	10/19/2023	6	<0.0020	<0.0050	0.0087	<0.010	0.049	<0.0050	<0.0038	<0.50	<50	<50
SB-Sep N2 6FT	10/19/2023	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-Sep S 5FT	10/19/2023	5	<0.0020	<0.0050	0.33	1.6	0.76	0.078	<0.0038	180	<50	<50
SB-Sep S2 6FT	10/19/2023	6	<0.0020	<0.0050	<0.0050	0.01	0.0085	<0.0050	<0.0038	11	<50	<50
SB-Sep W 6FT	10/19/2023	6	<0.0020	<0.0050	0.0061	<0.010	0.033	<0.0050	<0.0038	1.2	<50	<50
SB-Sep. Cen. 6FT	10/19/2023	6	<0.0020	<0.0050	0.15	0.036	0.043	<0.0050	<0.0038	49	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

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

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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
BOULTER 64N65W 11NWSW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-020

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
AST CEN. SURF.	01/25/2023	Surface	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00664	0.0135
DL TRENCH E WALL 3FT	01/25/2023	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0452	0.123
PWV E WALL 4FT	01/25/2023	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0112	<0.00500	<0.00500	0.0949	0.192
SEP. SURF	01/25/2023	Surface	<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-PWV Cen. 4FT	10/19/2023	4	0.0599	0.00665	0.0256	<0.00500	<0.00500	<0.00500	0.0103	<0.00500	0.00932	0.071	<0.00500	0.0184	2.03	4.71
SB-PWV E 7FT	10/19/2023	7	0.039	<0.00500	0.0102	<0.00500	<0.00500	<0.00500	0.0061	<0.00500	0.00696	0.054	<0.00500	0.0118	0.577	1.62
SB-PWV E2 5FT	10/19/2023	5	0.0509	0.00638	0.0102	<0.00500	<0.00500	<0.00500	0.00613	<0.00500	0.00674	0.065	<0.00500	0.00836	1.06	3.19
SB-PWV E3 7FT	10/19/2023	7	<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-PWV N 7FT	10/19/2023	7	0.0596	<0.00500	0.0106	<0.00500	<0.00500	<0.00500	0.0064	<0.00500	0.0073	0.0705	<0.00500	0.0119	0.931	2.91
SB-PWV N2 7FT	10/19/2023	7	0.0454	0.00689	0.00935	<0.00500	<0.00500	<0.00500	0.00554	<0.00500	0.00643	0.0567	<0.00500	0.0104	0.809	2.23
SB-PWV N3 6FT	10/19/2023	6	0.00583	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00606	<0.00500	<0.00500	0.0903	0.218
SB-PWV S 8FT	10/19/2023	8	0.0271	<0.00500	0.00705	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0301	<0.00500	<0.00500	0.349	0.974
SB-PWV S2 6FT	10/19/2023	6	0.0343	0.00829	0.00626	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00528	0.0369	<0.00500	<0.00500	0.419	1.27
SB-PWV W 7FT	10/19/2023	7	0.0392	0.00874	0.00849	<0.00500	<0.00500	<0.00500	0.0051	<0.00500	0.00556	0.0448	<0.00500	0.00666	0.67	1.64
SB-PWV W2 7FT	10/19/2023	7	0.0122	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0117	<0.00500	<0.00500	0.205	0.539
SB-Sep E 6FT	10/19/2023	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-Sep N 6FT	10/19/2023	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-Sep N2 6FT	10/19/2023	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-Sep S 5FT	10/19/2023	5	0.00755	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00742	<0.00500	<0.00500	0.0762	0.263
SB-Sep S2 6FT	10/19/2023	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-Sep W 6FT	10/19/2023	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-Sep. Cen. 6FT	10/19/2023	6	0.00521	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0445	0.18

Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
BOULTER 64N65W 11NWSW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-020

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BKG 3ft	01/25/2023	3	7.84	3.5	4.99	0.333
AST CEN. SURF.	01/25/2023	Surface	8.5	1.08	7.96	0.126
DL TRENCH E WALL 3FT	01/25/2023	3	7.91	0.992	2.63	0.933
PWV E WALL 4FT	01/25/2023	4	8.09	1.82	1.51	0.733
SEP. SURF	01/25/2023	Surface	7.48	3.61	0.365	0.567
SB-PWV Cen. 4FT	10/19/2023	4	8.09	0.315	0.226	<2.00
SB-PWV E 7FT	10/19/2023	7	7.97	0.353	0.607	<2.00
SB-PWV E2 5FT	10/19/2023	5	7.92	0.453	1.47	<2.00
SB-PWV E3 7FT	10/19/2023	7	8.04	0.819	2.67	<2.00
SB-PWV N 7FT	10/19/2023	7	8.58	0.586	2.49	<2.00
SB-PWV N2 7FT	10/19/2023	7	8.55	0.424	1.73	<2.00
SB-PWV N3 6FT	10/19/2023	6	8.38	0.663	2.54	<2.00
SB-PWV S 8FT	10/19/2023	8	8.17	0.861	0.809	<2.00
SB-PWV S2 6FT	10/19/2023	6	8.93	0.419	2.25	<2.00
SB-PWV W 7FT	10/19/2023	7	8.5	0.335	1.7	<2.00
SB-PWV W2 7FT	10/19/2023	7	9.3	0.398	2.3	<2.00
SB-Sep E 6FT	10/19/2023	6	8.44	1.47	5.66	<2.00
SB-Sep N 6FT	10/19/2023	6	8.6	0.495	2.62	<2.00
SB-Sep N2 6FT	10/19/2023	6	8.95	0.976	3.16	<2.00
SB-Sep S 5FT	10/19/2023	5	9.07	0.563	4.79	<2.00
SB-Sep S2 6FT	10/19/2023	6	8.49	0.849	3.31	<2.00
SB-Sep W 6FT	10/19/2023	6	9.03	0.446	3.34	<2.00
SB-Sep. Cen. 6FT	10/19/2023	6	9.22	0.344	1.88	<2.00
BKG-1 8FT	10/19/2023	8	8.36	0.802	3.48	<2.00
BKG-2 8FT	10/19/2023	8	8.14	0.703	3.34	<2.00
BKG-3 8FT	10/19/2023	8	8.07	0.888	3.86	<2.00

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BKG-4 8FT	10/19/2023	8	8.6	0.604	3.25	<2.00
BKG-5 8FT	10/19/2023	8	8.19	0.599	3.97	<2.00

Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
BOULTER 64N65W 11NWSW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-020

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)
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
SB-PWV Cen. 4FT	10/19/2023	4	0.784	62.4	<0.200	<0.30	2.28	5.3	1.79	0.766	0.0213	7.62
SB-PWV E 7FT	10/19/2023	7	1.01	40.2	<0.200	<0.30	3.33	3.9	1.94	1.87	0.0382	11.9
SB-PWV E2 5FT	10/19/2023	5	0.951	42.1	<0.200	<0.30	1.59	3.3	1.78	1.03	<0.0200	7.06
SB-PWV E3 7FT	10/19/2023	7	0.963	82.2	<0.200	<0.30	1.43	3.08	1.68	1.57	<0.0200	6.77
SB-PWV N 7FT	10/19/2023	7	0.629	25.7	<0.200	<0.30	0.93	3.71	2.81	<0.260	<0.0200	5.19
SB-PWV N2 7FT	10/19/2023	7	0.512	22.1	<0.200	<0.30	1.14	3.79	1.83	<0.260	<0.0200	7.13
SB-PWV N3 6FT	10/19/2023	6	0.595	23	<0.200	<0.30	1.65	4.04	1.76	<0.260	<0.0200	6.89
SB-PWV S 8FT	10/19/2023	8	0.854	50.1	<0.200	<0.30	2.47	6.66	2.21	0.712	0.0436	10.1
SB-PWV S2 6FT	10/19/2023	6	0.514	46.8	<0.200	<0.30	1.72	5.95	2.64	0.438	0.0272	8.1
SB-PWV W 7FT	10/19/2023	7	0.605	56.3	<0.200	<0.30	2.69	5.29	3.22	0.31	0.0454	14
SB-PWV W2 7FT	10/19/2023	7	0.701	53.2	<0.200	<0.30	2.19	5.49	2.38	0.489	0.0279	9.29
SB-Sep E 6FT	10/19/2023	6	0.43	82.8	1.07	<0.30	1.25	4.92	2.65	1.06	0.0268	4.38
SB-Sep N 6FT	10/19/2023	6	0.678	36.4	<0.200	<0.30	2.2	4.97	3.16	1.25	0.0264	10.4
SB-Sep N2 6FT	10/19/2023	6	0.834	179	<0.200	<0.30	2.58	3.45	2.92	1.57	0.025	9.62
SB-Sep S 5FT	10/19/2023	5	0.692	32	<0.200	<0.30	1.27	4.08	2.03	0.461	0.0227	7.21
SB-Sep S2 6FT	10/19/2023	6	0.772	41.3	<0.200	<0.30	2.43	4.69	2.94	0.614	0.0307	12.7
SB-Sep W 6FT	10/19/2023	6	0.746	60.1	0.237	<0.30	2.11	4.34	2.56	0.599	0.0247	8.45
SB-Sep. Cen. 6FT	10/19/2023	6	NA	118	<0.200	<0.30	1.6	3.08	1.97	0.627	<0.0200	6.73
BKG-1 8FT	10/19/2023	8	0.324	21.8	<0.200	<0.30	1.31	3.23	1.49	2.79	0.0219	6.65
BKG-2 8FT	10/19/2023	8	1.35	20.6	<0.200	<0.30	4.21	3.59	2.29	1.06	0.0203	8.21
BKG-3 8FT	10/19/2023	8	1.98	31.8	<0.200	<0.30	3.41	3.6	2.17	3.28	0.0256	11.4
BKG-4 8FT	10/19/2023	8	3.09	62.7	<0.200	<0.30	3.6	4.13	2.16	14.9	0.026	9.01
BKG-5 8FT	10/19/2023	8	0.786	28.1	<0.200	<0.30	2.17	3.42	1.31	1.42	0.02	6.97

Bold faced values exceed the COGCC Table 915-1 concentrations

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

NA - Not analyzed

TABLE 5
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE ENERGY INC.
BOULTER 64N65W 11NWSW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-020

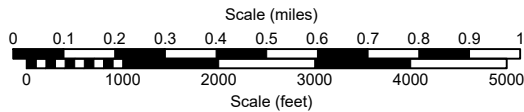
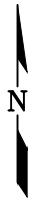
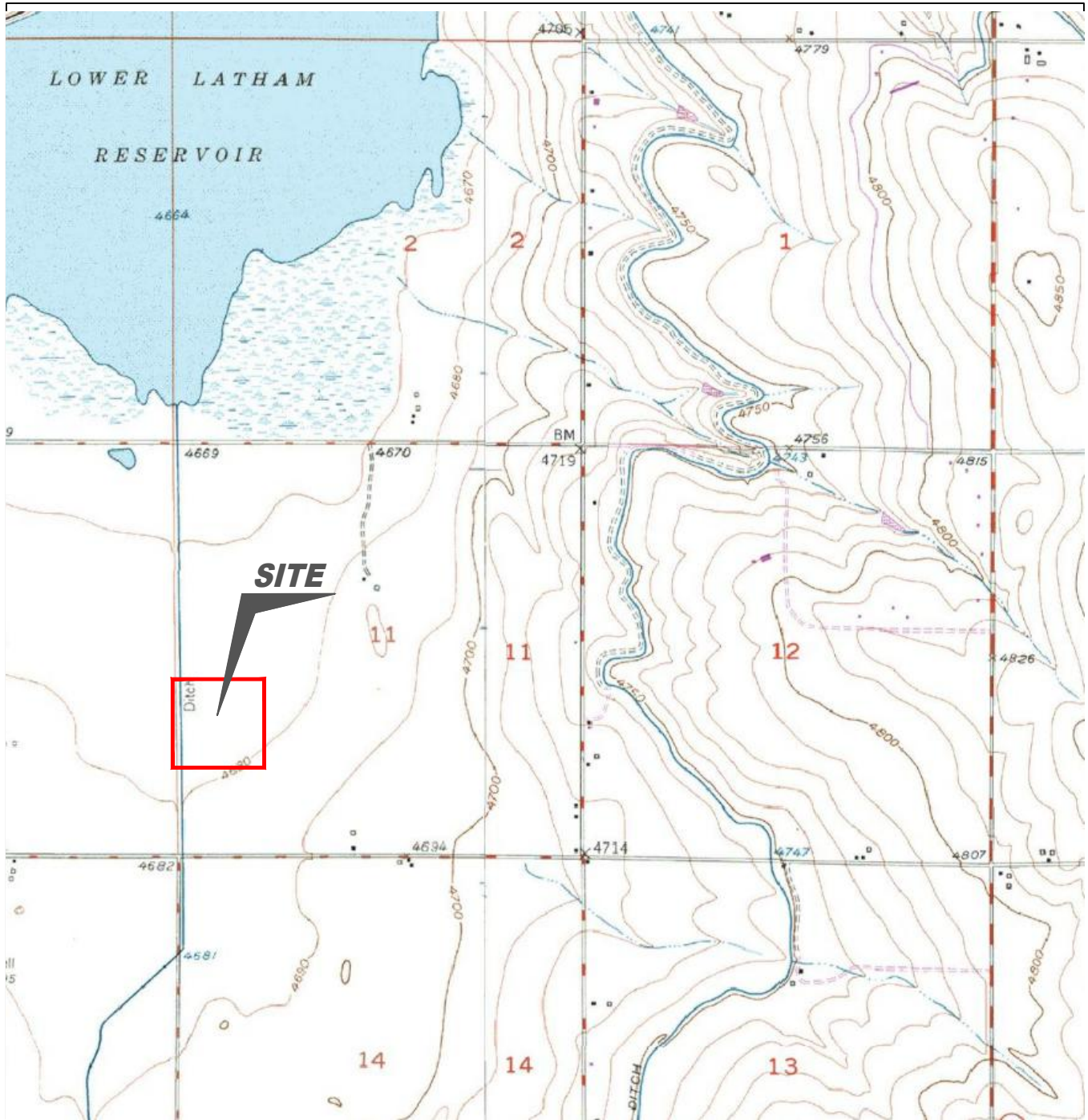
Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
COGCC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
DL Trench	01/25/2023	2200	5000	1100	15000	29	1400	1000	NA	~4	NA	NA
PWV	01/25/2023	81	32	140	720	28	140	65	NA	~5	NA	NA
SB-SEP CEN	10/19/2023	7.7	<1.0	100	450	4	210	50	NA	5	NA	NA

Bold face values exceed the COGCC limits

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

NP - No measureable LNAPL

NA - Not Analyzed



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
 Noble Energy, Inc.
 Boulder 11-1 (flow line)
 Boulder 64N65W 11NSW (facility)
 NWSW Sec. 11, T4N, R65W, 6th PM
 Weld County, Colorado
 40.325464°, -104.635428°

Project # CO23-020	API #	Facility # 319550
Date 2/15/24	Remediation # 25984	Filename 23020T



LEGEND

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- BUILDING BUILDING
- ▬ CONTAINMENT BERM
- ▬ FENCE LINE
- ▬ FLOW LINE
- ▬ DUMP LINE

Figure 2
SITE MAP

Noble Energy, Inc.
Boulder 11-1 (flow line)
Boulder 64N65W 11NWSW (facility)
 NWSW Sec. 11, T4N, R65W, 6th PM
 Weld County, Colorado
 40.325464°, -104.635428°

Project No. CO23-020	API #	Facility # 319550
Date 2/15/24	Remediation # 25984	Filename 23020Q





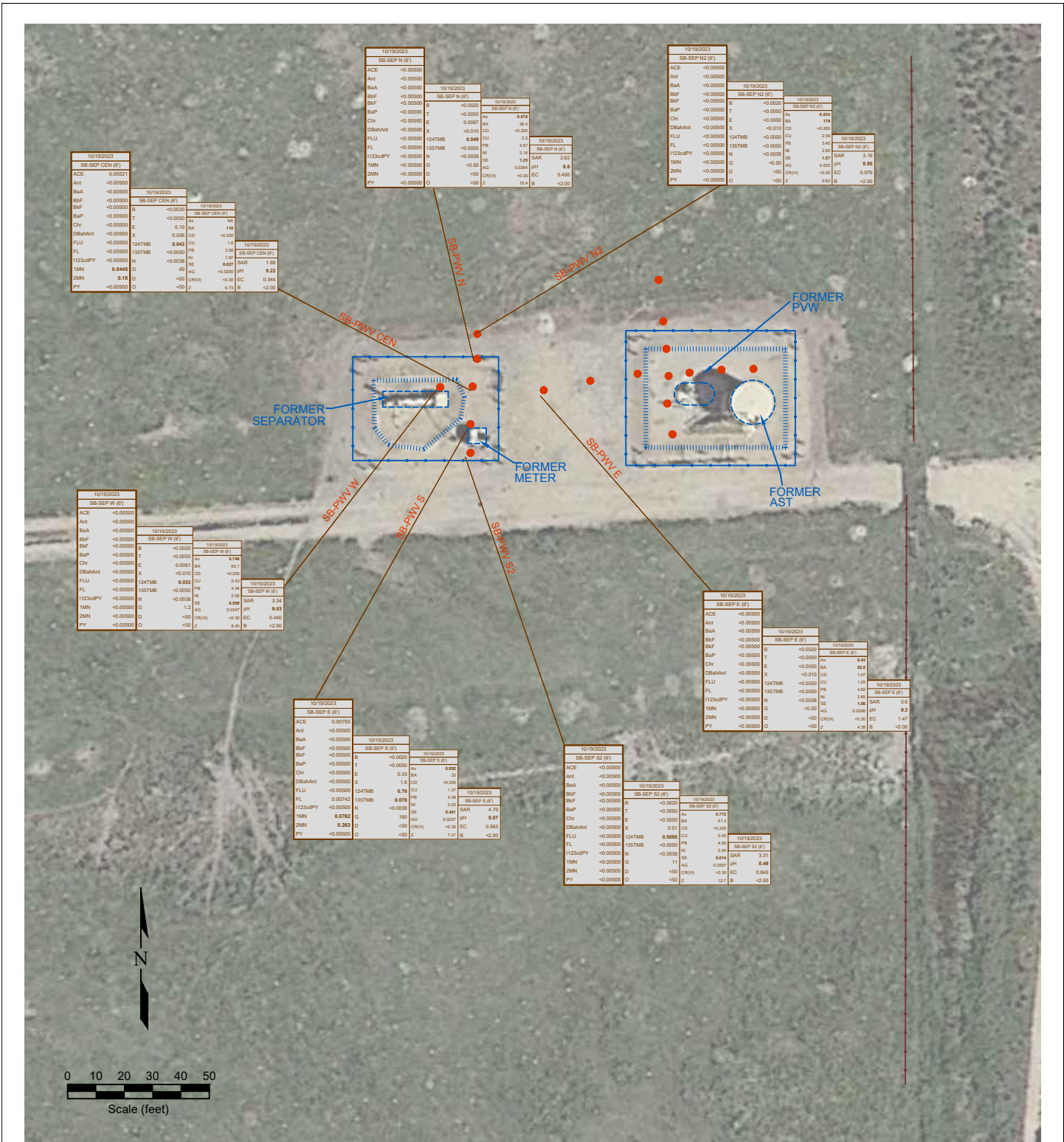
LEGEND

● SOIL BORING LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	CONTAINMENT BERM
		BUILDING	FENCE LINE
			FLOW LINE
			DUMP LINE
		A-A'	CROSS SECTION CUT LINE

Figure 3
CROSS SECTION MAP
 Noble Energy, Inc.
 Boulder 11-1 (flow line)
 Boulder 64N65W 11NWSW (facility)
 NWSW Sec. 11, T4N, R65W, 6th PM
 Weld County, Colorado
 40.325464°, -104.635428°

Project No. CO23-020	API #	Facility # 319550
Date 2/15/24	Remediation # 25984	Filename 23020Q





LEGEND

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER BUILDING
- CONTAINMENT BERM
- FENCE LINE
- FLOW LINE
- DUMP LINE
- CROSS SECTION CUT LINE

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
01/25/2023	AST CEN (Surface)	10/19/2023	SB-PWV CEN (ft)
ACE <0.00500	ACENAPHTHENE (mg/kg)	B <0.0020	BENZENE (mg/kg)
Ant <0.00500	ANTHRACENE (mg/kg)	BaP <0.00500	TOLUENE (mg/kg)
BaA <0.00500	BENZO (A) ANTHRACENE (mg/kg)	BaP <0.00500	ETHYLBENZENE (mg/kg)
BaP <0.00500	BENZO (B) FLUORANTHENE (mg/kg)	Ch <0.00500	TOLUENE (mg/kg)
BaP <0.00500	BENZO (K) FLUORANTHENE (mg/kg)	DBaAnt <0.00500	TOTAL XYLENES (mg/kg)
Chr <0.00500	BENZO (A) PYRENE (mg/kg)	FLU <0.00500	1,2,4-TRIMETHYLBENZENE (mg/kg)
DBaAnt <0.00500	CHRYSENE (mg/kg)	FLU <0.00500	1,3,5-TRIMETHYLBENZENE (mg/kg)
FL <0.00500	DIBENZ (A,H) ANTHRACENE (mg/kg)	FLU <0.00500	1,4-DICHLOROBENZENE (mg/kg)
FL <0.00500	FLUORANTHENE (mg/kg)	FLU <0.00500	1,2-DICHLOROBENZENE (mg/kg)
FLU <0.00500	FLUORINE (mg/kg)	FLU <0.00500	1,3-DICHLOROBENZENE (mg/kg)
1123cOPY <0.00500	INDENO (1,2,3-CD) PYRENE (mg/kg)	FLU <0.00500	1,4-DICHLOROBENZENE (mg/kg)
1MN <0.0105	1-METHYLNAPHTHALENE (mg/kg)	FLU <0.00500	1,2-DICHLOROBENZENE (mg/kg)
2MN <0.0207	2-METHYLNAPHTHALENE (mg/kg)	FLU <0.00500	1,3-DICHLOROBENZENE (mg/kg)
PY <0.00500	PYRENE (mg/kg)	FLU <0.00500	1,4-DICHLOROBENZENE (mg/kg)

Figure 6
SOIL CHEMISTRY MAP
 Noble Energy, Inc.
 Boulder 11-1 (flow line)
 Boulder 64N65W 11NWSW (facility)
 NWSW Sec. 11, T4N, R65W, 6th PM
 Weld County, Colorado
 40.325464°, -104.635428°

Project No. CO23-020	API #	Facility # 319550
Date 2/15/24	Remediation # 25984	Filename 23020Q1

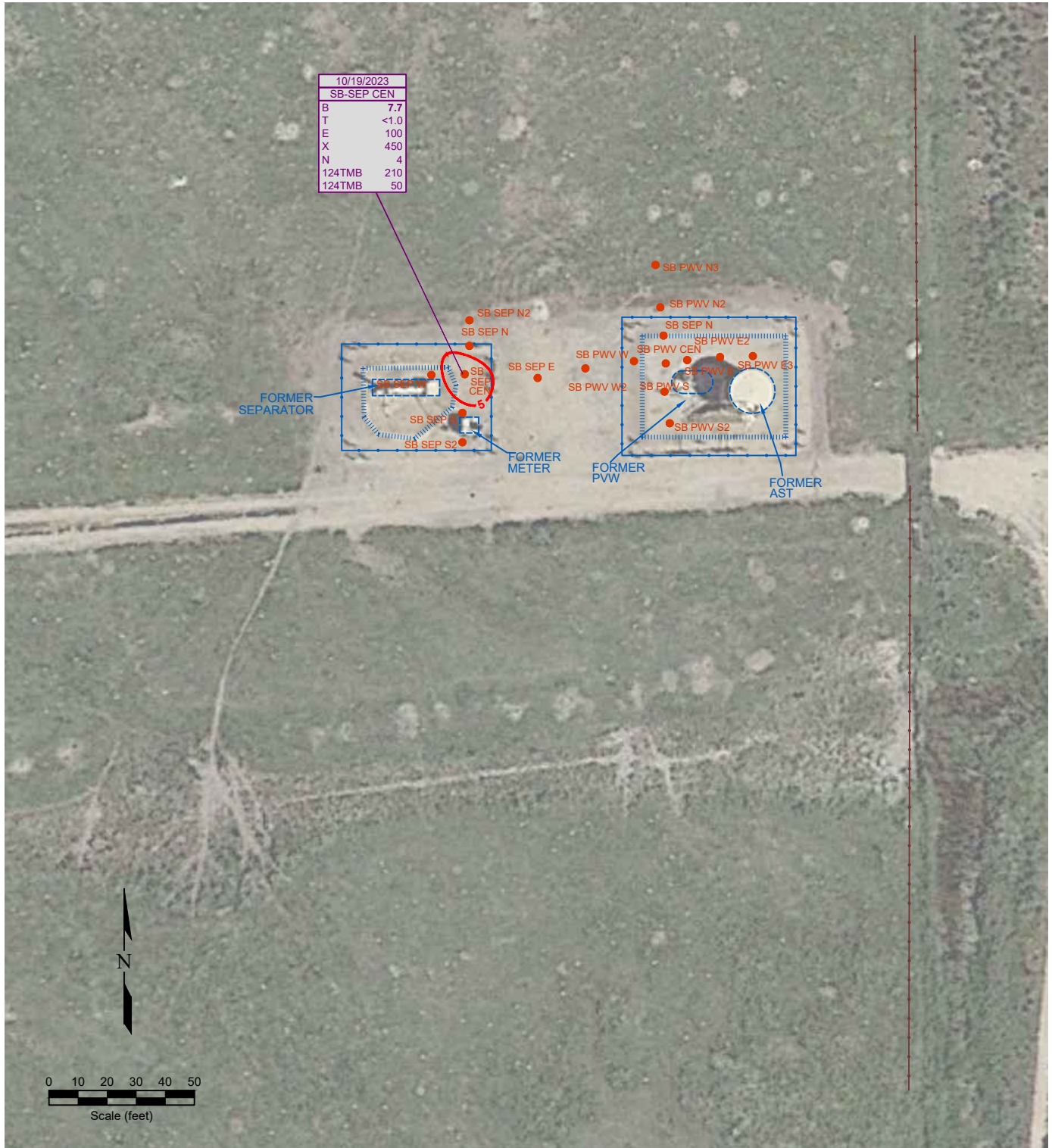


Figure 7
BACKGROUND SAMPLE SOIL CHEMISTRY MAP

Noble Energy, Inc.
Boulder 11-1 (flow line)
Boulder 64N65W 11NWSW (facility)
NWSW Sec. 11, T4N, R65W, 6th PM
Weld County, Colorado
40.325464°, -104.635428°

01/25/2023		10/19/2023		02/20/2023	
AST CEN (Surface)	DATE SAMPLED	SB-PWV CEN (4')	DATE SAMPLED	SB-PWV CEN (4')	DATE SAMPLED
ACE	<0.0050	B	<0.0020	As	0.784
AcE	<0.0050	F	<0.0050	BA	0.24
BaA	<0.0050	E	0.002	CD	<0.0050
BbF	<0.0050	X	<0.010	CU	2.25
BbF	<0.0050	1,2,4-TMB	0.0071	NI	1.31
BbF	<0.0050	1,3,5-TMB	<0.0050	SE	1.42
Chr	<0.0050	N	0.614	AG	0.02
DibA	<0.0050	G	580	CR(VI)	<0.30
FLU	<0.0050	D	746	Z	6.97
FL	<0.0050	S	58	B	<0.200
1,2,3,4-PY	<0.0050				
1MN	0.0105				
2MN	0.0207				
PY	<0.0050				

Project No. CO23-020	API #	Facility # 319550	
Date 2/15/24	Remediation # 25984	Filename 23020Q1	



10/19/2023	
SB-SEP CEN	
B	7.7
T	<1.0
E	100
X	450
N	4
124TMB	210
124TMB	50

LEGEND

● SOIL BORING LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	CONTAINMENT BERM
		BUILDING	FENCE LINE
			FLOW LINE
			DUMP LINE
			CROSS SECTION CUT LINE

DATE SAMPLED	SAMPLE ID	DATE SAMPLED
10/19/2023	SB-SEP CEN	10/19/2023
B	7.7	BENZENE (ug/L)
T	<1.0	TOLUENE (ug/L)
E	100	ETHYLBENZENE (ug/L)
X	450	TOTAL XYLENES (ug/L)
N	4	NAPTHALENE (ug/L)
124TMB	210	1,2,4-TRIMETHYLBENZENE (ug/L)
124TMB	50	1,3,5-TRIMETHYLBENZENE (ug/L)



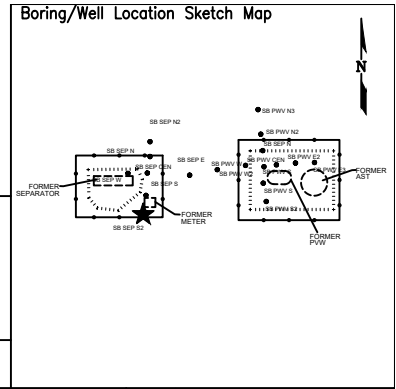
Figure 8
GROUNDWATER CHEMISTRY MAP
 Noble Energy, Inc.
 Boulder 11-1 (flow line)
 Boulder 64N65W 11NWSW (facility)
 NWSW Sec. 11, T4N, R65W, 6th PM
 Weld County, Colorado
 40.325464°, -104.635428°

Project No. CO23-020	API #	Facility # 319550
Date 2/15/24	Remediation # 25984	Filename 23020Q1





BORING/WELL CONSTRUCTION LOG



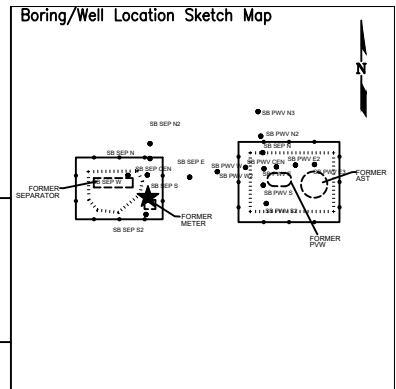
Page 1 of 1

Boring/Well No. SB-SEP. S2		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
			4" Roadbase				
		SC	Sandy Clay: dark brown, fine sand, moist				0.0
							0.0
							0.2
			- increasing moisture		90%		0.4
5							0.3
			- transition to gray, increasing sand				22.3
		SM	Silty Sand: tan, wet, oxidized		90%		10.8
			TD 8'				2.3
10							
15							
20							



BORING/WELL CONSTRUCTION LOG



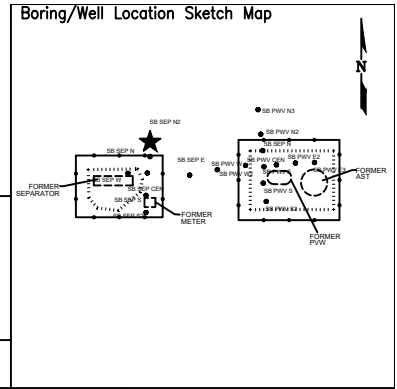
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Boring/Well No. SB-SEP. S		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				Approved By
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
		NR	No recovery				NS
							NS
							NS
5		FILL	Fill		5%	0.0	
		CH	Clay			1063	
						9.7	
		SW	Sand: tan, medium to fine, wet, oxidized		80%	3.9	
10			TD 8'			1.2	
15							
20							



BORING/WELL CONSTRUCTION LOG



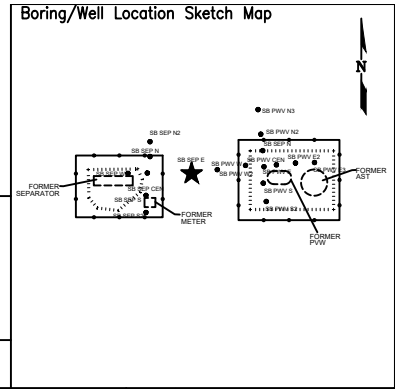
Page 1 of 1

Boring/Well No. SB-SEP. N2		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)			Drilling Contractor/Driller DrillPro			
Geologist/Office Ethan Black / Fremont Environmental, Inc.			Approved By			
Drilling Equipment/Method Geoprobe			Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023	
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SC	Sandy clay				0.0
			- decreasing sand		70%		0.0
			- molted sandy clay		80%		0.0
			Silty Sand: tan, medium and fine, wet				0.0
			TD 8'	SM			0.0
10							
15							
20							



BORING/WELL CONSTRUCTION LOG



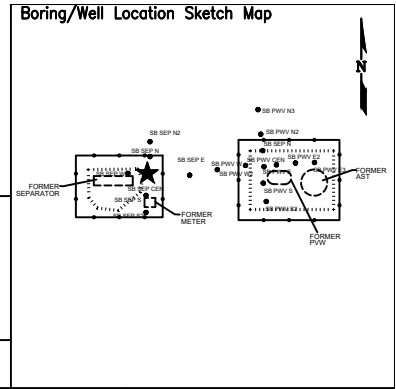
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Boring/Well No. SB-SEP. E		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured 2.82 10/19/2023

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
5			CL	Sandy Clay: dark brown, plastic Sandy Clay: dark brown, plastic, moist - transition to light brown, clay - medium plasticity - sandy red brown clay, sand, moist, TD 8'		70%	NS	0.0
10								0.0
15								0.0
20								0.0



BORING/WELL CONSTRUCTION LOG



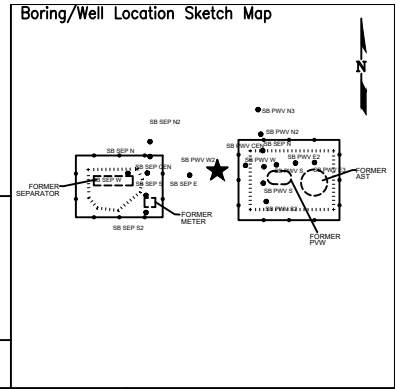
Page 1 of 1

Boring/Well No. SB-SEP. CEN		Total Depth 12'	Location Noble Energy Inc Boulter 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado				
Project No./Name C023-020 Noble Boulter 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro					
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5			Sandy Clay: brown, plastic, moist		50%		NS
			- transition to gray at 6', black at 7'				NS
			- wet, increasing sand				0.0
			- transitioning to brown, some oxidization				0.0
			- transitioning to brown, some oxidization				NS
			- wet, increasing sand				1257
			- transitioning to brown, some oxidization				42.6
			- transitioning to brown, some oxidization				3.3
			- wet, increasing sand				0.0
			10				
- 6" silt lens at 10'	1257						
- oxidization at 11'	42.6						
15					90%		NS
							NS
							0.0
							0.0
							NS
							1257
							42.6
							3.3
							0.0
							0.0
20			TD 12'				



BORING/WELL CONSTRUCTION LOG



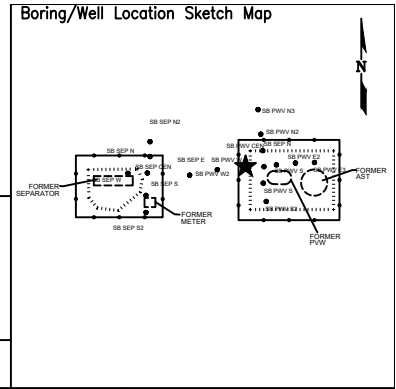
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Boring/Well No. SB-PWV W2		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Well Construction Diagram]	[Graphic Log: Dotted]	6" Sand	90%	90%	143.4	0.4
		[Graphic Log: Diagonal Lines]	Sandy Clay: dark brown, plastic, medium to fine sand, moist				0.0
		[Graphic Log: Diagonal Lines]					0.2
		[Graphic Log: Diagonal Lines]	- transition to alternating gray and black, increasing moisture, wet at 7', odor				18.3
		[Graphic Log: Diagonal Lines]					243.3
10	[Well Construction Diagram]	[Graphic Log: Dotted]	Sand: tan, medium to very fine, saturated	95%	95%	756.6	756.6
		[Graphic Log: Dotted]					
		[Graphic Log: Dotted]					
15	[Well Construction Diagram]	[Graphic Log: Dotted]					
		[Graphic Log: Dotted]					
		[Graphic Log: Dotted]					
		[Graphic Log: Dotted]					
		[Graphic Log: Dotted]					
20	[Well Construction Diagram]	[Graphic Log: Dotted]					
		[Graphic Log: Dotted]					
		[Graphic Log: Dotted]					
		[Graphic Log: Dotted]					
		[Graphic Log: Dotted]					



BORING/WELL CONSTRUCTION LOG



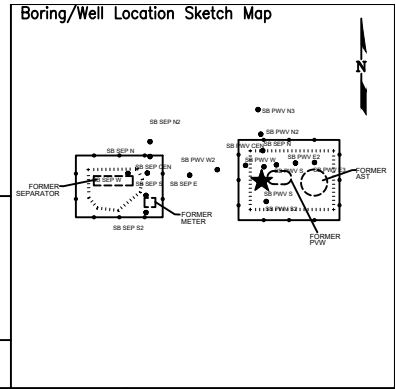
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Boring/Well No. SB-PPW W		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				Approved By
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Drilling Equipment/Method Geoprobe				Size/Type of Bit 4.25" direct push
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SC	Sandy Clay: black to gray, moist to wet, plastic, odor			95%	0.4
			38.4				
			143.5				
			196.1				
			201.1				
10		SW	Sand: tan, medium to very fine, wet, oxidized			95%	641.6
			761.4				
			1.9				
15							
20			TD 8'				



BORING/WELL CONSTRUCTION LOG



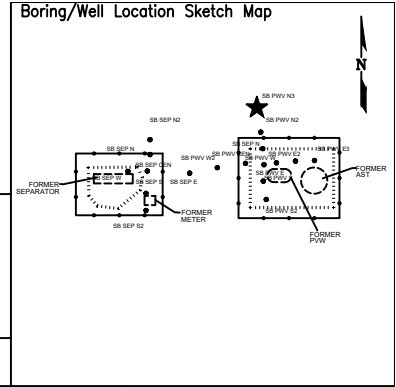
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Boring/Well No. SB-PWV S		Total Depth 12'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				Approved By
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Drilling Equipment/Method Geoprobe				Size/Type of Bit 4.25" direct push
		Sampling Method direct push		Start/Finish Date 10/19/2023		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SC	Sandy Clay: dark brown, plastic, medium to fine, moist		65%	NS 0.4 1.8 1.0 NS 4.0 175.0	
10		SW	Sand: gray to black to tan, medium to very fine, wet - oxidized			315.2 45.0 20.0 4.0 3.8	
15							
20							
			TD 12'				



BORING/WELL CONSTRUCTION LOG



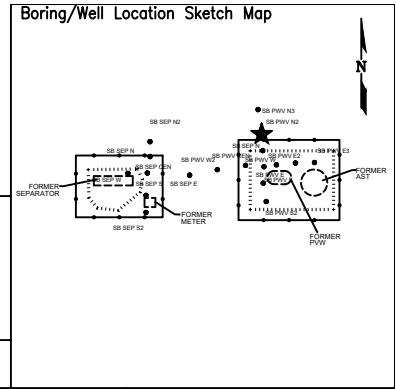
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Boring/Well No. SB-PWV N3		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Well Construction Diagram]	SC	Sandy Clay: brown, fine, moist, oxidization		90%	NS	
						0.9	
						1.2	
						1.3	
						30.0	
10	[Well Construction Diagram]	SP	Sand: transition to medium fine, wet, black, odor		90%	160.0	
			Sand: transition to medium fine, wet, light brown, oxidization			18.0	
			TD 8'			0.00	
15	[Well Construction Diagram]						
20	[Well Construction Diagram]						



BORING/WELL CONSTRUCTION LOG



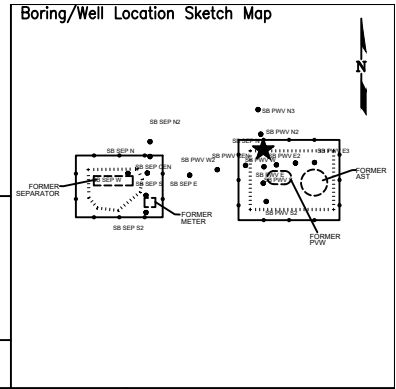
Page 1 of 1

Boring/Well No. SB-PWV N2		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado				
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)			Drilling Contractor/Driller DrillPro				
Geologist/Office Ethan Black / Fremont Environmental, Inc.			Approved By				
Drilling Equipment/Method Geoprobe			Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SC	Sandy Clay: black, fine, moist		60%	NS 0.7 1.3 1.4 NS	
10			Clay Sand: black, fine, moist, odor		60%	111.1 790.0	
15							
20			TD 8'			22.0	



BORING/WELL CONSTRUCTION LOG



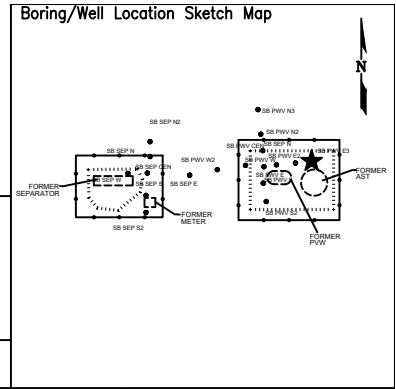
Page 1 of 1

Boring/Well No. SB-PWV N		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Well Construction Diagram]	SC	Sandy Clay: black, fine, moist		60%	4.5	
						4.5	
						6.5	
						99.0	
						1.5	
10	[Well Construction Diagram]	SP	Sand: black, fine, wet, well graded		70%	300	
						600	
						7.7	
15	[Well Construction Diagram]						
20	[Well Construction Diagram]		TD 8'				



BORING/WELL CONSTRUCTION LOG



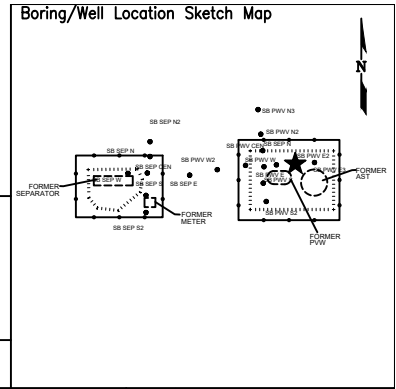
Page 1 of 1

Boring/Well No. SB-PWV E3		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado				
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro					
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Well Construction Diagram]	SC	Sandy Clay: brown, fine, moist		85%		0.0
							0.0
							0.0
							0.0
							0.0
10	[Well Construction Diagram]	SW	Sand: tan, medium to very fine, wet - 3" black lens at 7'		90%		0.0
							0.0
							0.0
							0.0
							0.0
15	[Well Construction Diagram]						0.0
							0.0
							0.0
							0.0
							0.0
20	[Well Construction Diagram]						0.0
							0.0
							0.0
							0.0
							0.0



BORING/WELL CONSTRUCTION LOG



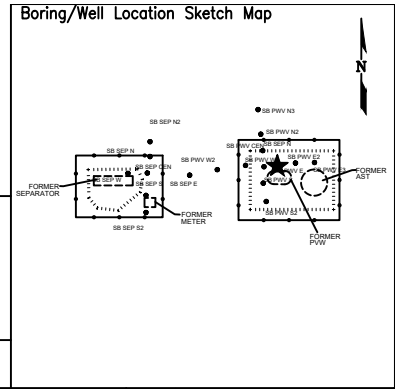
Page 1 of 1

Boring/Well No. SB-PWV E2		Total Depth 12'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado				
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro					
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By					
Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)					
		GRAPHIC LOG	VISUAL DESCRIPTION									
5	[Well Construction Diagram]	SC	Sandy Clay: dark brown, fine, dry, poorly graded	80%	80%	NS 1.7 1.7 27 656.6 300.1 221						
			- transition to sandy clay, moist, low plasticity, odor									
			- wet, increasing sand									
			- dark gray, wet, sand, poorly graded									
		10	CL					Clay: gray, medium plastic, wet	80%	8.8 4.2 5.9		
			SW					Sand: oxidization, brown, wet, well graded	80%	17.0		
								TD 12'	80%	19		
		15	[Well Construction Diagram]									
		20	[Well Construction Diagram]									



BORING/WELL CONSTRUCTION LOG



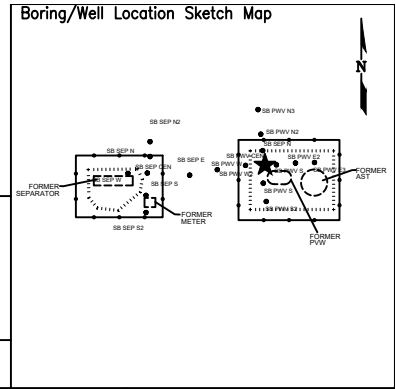
Page 1 of 1

Boring/Well No. SB-PWV E		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Well Construction Diagram]	SC	Sandy Clay: dark brown, plastic, medium to fine, moist	50%	50%	NS	0.9
		NR	No recovery			NS	1.5
		CL	Clayey Sand: black, brown, medium plasticity, moist, light odor			NS	3.0
		SW	Sand: black, moist, medium to fine, wet to saturated			270.0	6.5
		TD 8'					
10	[Well Construction Diagram]						
15	[Well Construction Diagram]						
20	[Well Construction Diagram]						



BORING/WELL CONSTRUCTION LOG



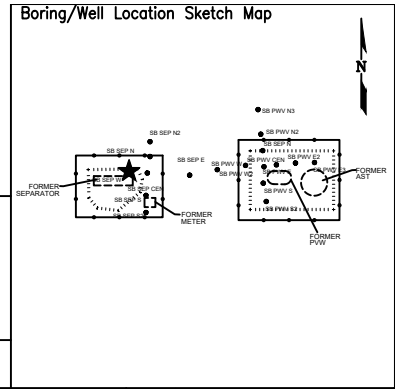
Page 1 of 1

Boring/Well No. SB-PWV CEN		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Approved By				
Drilling Equipment/Method Geoprobe		Size/Type of Bit 4.25" direct push	Sampling Method direct push	Start/Finish Date 10/19/2023		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type . Mtrl. . Length . Dia. . Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
		NR	No recovery				NS
		SC	Sandy Clay: dark brown, low plasticity, moist, gray staining, moist, sandy clay, light odor, medium plasticity, clay		50%	0.9	NS
5		SW	Sand - transition to brown oxidation		60%	111	0.5
			TD 8'			60	1.2
10							0.0
15							
20							



BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. SB-SEP. W		Total Depth 8'	Location Noble Energy Inc Boulder 64N65W 11NWSW (facility) NWSW Sec. 11, T4N, R65W, 6th PM Weld County, Colorado			
Project No./Name C023-020 Noble Boulder 64N65W 11NWSW (facility)		Drilling Contractor/Driller DrillPro				Approved By
Geologist/Office Ethan Black / Fremont Environmental, Inc.		Drilling Equipment/Method Geoprobe				Size/Type of Bit 4.25" direct push
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5	[Well Construction Diagram]	SW	Sand, brown, dry				NS 0.0
		CL	- transition to clay, gray, plastic, moist		40%	0.1	NS
		CL	- dark gray, moist, plastic, clay		50%	0.7	0.6
		CL	- red brown, oxidation, clay, moist, low plasticity			0.1	
		CL	TD 8'				
10	[Well Construction Diagram]						
15	[Well Construction Diagram]						
20	[Well Construction Diagram]						

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 02, 2023


Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Boulter 64N65W

Work Order #2310421

Enclosed are the results of analyses for samples received by Summit Scientific on 10/20/23 16:30. 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 "nd" at the end of the last name.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W

Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-Sep. Cen. 6FT	2310421-01	Soil	10/19/23 00:00	10/20/23 16:30
SB-Sep E 6FT	2310421-02	Soil	10/19/23 00:00	10/20/23 16:30
SB-Sep N 6FT	2310421-03	Soil	10/19/23 00:00	10/20/23 16:30
SB-Sep W 6FT	2310421-04	Soil	10/19/23 00:00	10/20/23 16:30
SB-Sep N2 6FT	2310421-05	Soil	10/19/23 00:00	10/20/23 16:30
SB-Sep S 5FT	2310421-06	Soil	10/19/23 00:00	10/20/23 16:30
SB-Sep S2 6FT	2310421-07	Soil	10/19/23 00:00	10/20/23 16:30
SB-PWV Cen. 4FT	2310421-08	Soil	10/19/23 00:00	10/20/23 16:30
SB-PWV W 7FT	2310421-09	Soil	10/19/23 00:00	10/20/23 16:30
SB-PWV W2 7FT	2310421-10	Soil	10/19/23 00:00	10/20/23 16:30
SB-PWV S2 6FT	2310421-11	Soil	10/19/23 00:00	10/20/23 16:30
SB-PWV E 7FT	2310421-12	Soil	10/19/23 00:00	10/20/23 16:30
SB-PWV E2 5FT	2310421-13	Soil	10/19/23 00:00	10/20/23 16:30
SB-PWV E3 7FT	2310421-14	Soil	10/19/23 00:00	10/20/23 16:30
SB-PWV N 7FT	2310421-15	Soil	10/19/23 00:00	10/20/23 16:30
SB-PWV N2 7FT	2310421-16	Soil	10/19/23 00:00	10/20/23 16:30
SB-PWV N3 6FT	2310421-17	Soil	10/19/23 00:00	10/20/23 16:30
BKG-1 8FT	2310421-18	Soil	10/19/23 00:00	10/20/23 16:30
BKG-2 8FT	2310421-19	Soil	10/19/23 00:00	10/20/23 16:30
BKG-3 8FT	2310421-20	Soil	10/19/23 00:00	10/20/23 16:30
BKG-4 8FT	2310421-21	Soil	10/19/23 00:00	10/20/23 16:30
BKG-5 8FT	2310421-22	Soil	10/19/23 00:00	10/20/23 16:30
SB-SEP CEN	2310421-23	Water	10/19/23 00:00	10/20/23 16:30
SB-PWV S 8FT	2310421-24	Soil	10/19/23 00:00	10/20/23 16:30

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID 23104211 Page 1 of 2

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: <u>Chevron</u>	
Address: 8305 6th St.,	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: <u>Noble - Butler 64N65W</u>	PO/Billing Codes: <u>UWRWE-A1028-ABN</u>	
Sampler Name: Ethan Black	Project Number:	Contact: <u>Dan Peterson</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH		SAR, EC, pH, Boron
1	SB-Sep. Cen. 6FT	10/19/23		2			X			X		X	X	X	X		
2	SB-SEP E 6FT																
3	SB-SEP N 6FT																
4	SB-SEP W 6FT																
5	SB-SEP N2 6FT																
6	SB-SEP S 5FT																
7	SB-SEP S2 6FT																
8	SB-PWV Cen. 4FT																
9	SB-PWV W 7FT																
10	SB-PWV W2 7FT																
11	SB-PWV S2 6FT																
12	SB-PWV E 7FT																
13	SB-PWV E2 5FT																
14	SB-PWV E3 7FT																
15	SB-PWV N 7FT																

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>10/20/23 0630</u>	Received by: <u>S2</u>	Date/Time: <u>10/20/23 0630</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>10/20/23 1030</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/20/23 1030</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: <u>[Signature]</u>	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>12.4</u>	Corrected Temperature: <u>0</u>	IR gun #:	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

SUMMIT SCIENTIFIC

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

Lab ID 2310421.2 Page 2 of 2

Client: Fremont Environmental, Inc.		Send Data To:		Send Invoice To:	
Address: 8305 6th St.,		Project Manager: Henehan		Company: Chevron	
City/State/Zip: Wellington, CO, 80549		E-Mail: Fremont Distribution List		Project Name/Location:	
Phone: 603-477-6907		Project Name: Noble - Boulder 64NG65W		AFE#:	
Sampler Name: Ethan Black		Project Number:		PO/Billing Codes: See P.1	
				Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMS	TPH (C8-C36)	PAH		SAR, EC, pH, Boron
1	SB-PWV N2 7FT	10/19/23		2			X			X		X	X	X	X		
2	SB-PWV N3 6FT			2			X			X		X	X	X	X		
3	BKG-1 8FT			1			X			X		X	X	X	X		
4	BKG-2 8FT			1			X			X		X	X	X	X		
5	BKG-3 8FT			1			X			X		X	X	X	X		
6	BKG-4 8FT			1			X			X		X	X	X	X		
7	BKG-5 8FT			1			X			X		X	X	X	X		
8	SB-SEP CEN			3	X		X		X			X					
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished by: Ethan Black	Date/Time: 10/29/23 0630	Received by: S2	Date/Time: 10/28/23 0630	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 12.2	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2310421

Client: Fremont Client Project ID: Noble-Batter (LNU) (GWS)

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

[] - [] [] []

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

Temp (°C) 12.4 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.	-			ON ICE
If custody seals are present, are they intact? (1)	-			
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		-		
Is a chain-of-custody (COC) form present and filled out Completely? (1)	X	✓		no time stamps
Is the COC properly relinquished by the client w/ date and time recorded? (1)	-			
Were all samples received intact? (1)	✓			
Was adequate sample volume provided? (1)	✓			
Does the COC agree with the number and type of sample bottles received? (1)		✓		sent extra soil sample
Do the sample IDs on the bottle labels match the COC? (1)	✓			
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.		✓		
Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	✓			HCl
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	

Additional Comments (if any):

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

AS

Custodian Printed Name

10/20/23

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep. Cen. 6FT
2310421-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.15	0.050	"	10	"	"	10/24/23	"	
Xylenes (total)	0.036	0.010	"	1	"	"	10/24/23	"	
1,2,4-Trimethylbenzene	0.043	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	49	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0596	149 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0368	92.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0934	234 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0908	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.64	77.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep. Cen. 6FT
2310421-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00521	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0445	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.180	0.00500	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	61.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 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 - Boulter 64N65W

Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

**SB-Sep. Cen. 6FT
2310421-01 (Soil)**

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	118	0.400	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.60	0.400	"	"	"	"	"	"	
Lead	3.08	0.200	"	"	"	"	"	"	
Nickel	1.97	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.73	0.400	"	"	"	"	"	"	
Selenium	0.627	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.7	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	19.7	0.0500	"	"	"	"	"	"	
Sodium	57.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.88	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
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Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

**SB-Sep. Cen. 6FT
 2310421-01 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.4	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.344	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.22		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep E 6FT
2310421-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0443	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0367	91.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0377	94.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0908	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.92	79.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulder 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep E 6FT
2310421-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	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: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0239	71.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0217	65.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep E 6FT
2310421-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.430	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	82.8	0.400	"	"	"	"	"	"	
Cadmium	1.07	0.200	"	"	"	"	"	"	
Copper	1.25	0.400	"	"	"	"	"	"	
Lead	4.92	0.200	"	"	"	"	"	"	
Nickel	2.65	0.400	"	"	"	"	"	"	
Silver	0.0268	0.0200	"	"	"	"	"	"	
Zinc	4.38	0.400	"	"	"	"	"	"	
Selenium	1.06	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.9	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	39.3	0.0500	"	"	"	"	"	"	
Sodium	219	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.66	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 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 - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

SB-Sep E 6FT
2310421-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.5	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.47	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep N 6FT
2310421-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0087	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.049	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0442	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0337	84.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0908	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.3	82.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulder 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep N 6FT
2310421-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	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: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0172	51.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0176	52.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep N 6FT
2310421-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.678	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B
Barium	36.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.20	0.400	"	"	"	"	"	"
Lead	4.97	0.200	"	"	"	"	"	"
Nickel	3.16	0.400	"	"	"	"	"	"
Silver	0.0264	0.0200	"	"	"	"	"	"
Zinc	10.4	0.400	"	"	"	"	"	"
Selenium	1.25	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.3	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	20.3	0.0500	"	"	"	"	"	"	
Sodium	71.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.62	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 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 - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

SB-Sep N 6FT
2310421-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.8	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

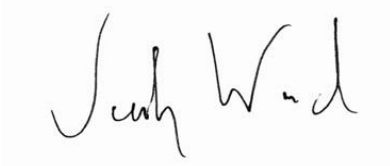
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.495	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.60		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep W 6FT
2310421-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0061	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.033	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.2	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0456	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0355	88.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0908	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.16	73.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep W 6FT
2310421-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	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: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0165	49.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep W 6FT
2310421-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.746	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B
Barium	60.1	0.400	"	"	"	"	"	"
Cadmium	0.237	0.200	"	"	"	"	"	"
Copper	2.11	0.400	"	"	"	"	"	"
Lead	4.34	0.200	"	"	"	"	"	"
Nickel	2.56	0.400	"	"	"	"	"	"
Silver	0.0247	0.0200	"	"	"	"	"	"
Zinc	8.45	0.400	"	"	"	"	"	"
Selenium	0.599	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.6	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	15.4	0.0500	"	"	"	"	"	"	
Sodium	78.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.34	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
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Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

SB-Sep W 6FT
2310421-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.5	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.446	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.03		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep N2 6FT
2310421-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0444	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0367	91.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0908	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.60	76.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Boulder 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep N2 6FT
2310421-05 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	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: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0153	45.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0135	40.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep N2 6FT
2310421-05 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.834	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	179	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.58	0.400	"	"	"	"	"	"	
Lead	3.45	0.200	"	"	"	"	"	"	
Nickel	2.92	0.400	"	"	"	"	"	"	
Silver	0.0250	0.0200	"	"	"	"	"	"	
Zinc	9.62	0.400	"	"	"	"	"	"	
Selenium	1.57	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.8	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	41.0	0.0500	"	"	"	"	"	"	
Sodium	119	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.16	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

SB-Sep N2 6FT
2310421-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.5	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.976	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.95		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep S 5FT
2310421-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.33	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.6	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.76	0.050	"	10	"	"	10/24/23	"	
1,3,5-Trimethylbenzene	0.078	0.0050	"	1	"	"	10/24/23	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	180	5.0	"	10	"	"	10/24/23	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0798	200 %	50-150	"	"	"	10/24/23	"	S-02
Surrogate: Toluene-d8	0.0295	73.8 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.161	403 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0908	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.98	71.9 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep S 5FT
2310421-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00755	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00742	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0762	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.263	0.00500	"	"	"	"	"	"	E

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0248	74.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0246	73.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep S 5FT
2310421-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.692	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B
Barium	32.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.27	0.400	"	"	"	"	"	"
Lead	4.08	0.200	"	"	"	"	"	"
Nickel	2.03	0.400	"	"	"	"	"	"
Silver	0.0227	0.0200	"	"	"	"	"	"
Zinc	7.21	0.400	"	"	"	"	"	"
Selenium	0.461	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.0	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	14.3	0.0500	"	"	"	"	"	"	
Sodium	108	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.79	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 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 - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

SB-Sep S 5FT
2310421-06 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.9	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

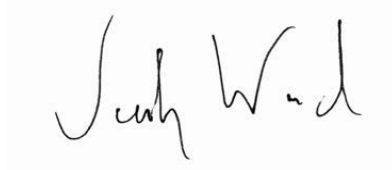
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.563	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.07		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep S2 6FT
2310421-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.010	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0085	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	11	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0458	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0337	84.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0826	206 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0908	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.64	69.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
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Project: Noble - Boulder 64N65W

Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep S2 6FT
2310421-07 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	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: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0220	66.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-Sep S2 6FT
2310421-07 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.772	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	41.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.43	0.400	"	"	"	"	"	"	
Lead	4.69	0.200	"	"	"	"	"	"	
Nickel	2.94	0.400	"	"	"	"	"	"	
Silver	0.0307	0.0200	"	"	"	"	"	"	
Zinc	12.7	0.400	"	"	"	"	"	"	
Selenium	0.614	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.7	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	26.9	0.0500	"	"	"	"	"	"	
Sodium	112	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.31	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

SB-Sep S2 6FT
2310421-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.8	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.849	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

**SB-PWV Cen. 4FT
2310421-08 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.052	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0071	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.014	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	580	5.0	"	10	"	"	10/24/23	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0578	144 %	50-150		"	"	10/24/23	"	
Surrogate: Toluene-d8	0.0315	78.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.317	791 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	740	50	mg/kg	1	BGJ0908	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	56	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.2	97.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

**SB-PWV Cen. 4FT
2310421-08 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0599	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	0.00665	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0256	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0103	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00932	0.00500	"	"	"	"	"	"	
Fluorene	0.0710	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0184	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	2.03	0.100	"	20	"	"	10/24/23	"	
2-Methylnaphthalene	4.71	0.100	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0313	93.8 %	40-150		"	"	10/23/23	"	
Surrogate: Fluoranthene-d10	0.0190	56.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

**SB-PWV Cen. 4FT
2310421-08 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.784	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B
Barium	62.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.28	0.400	"	"	"	"	"	"
Lead	5.30	0.200	"	"	"	"	"	"
Nickel	1.79	0.400	"	"	"	"	"	"
Silver	0.0213	0.0200	"	"	"	"	"	"
Zinc	7.62	0.400	"	"	"	"	"	"
Selenium	0.766	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.2	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	9.43	0.0500	"	"	"	"	"	"	
Sodium	7.36	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.226	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 PO Box 1289
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Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

**SB-PWV Cen. 4FT
 2310421-08 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.6	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.315	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV W 7FT
2310421-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.013	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.011	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0081	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.010	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	270	5.0	"	10	"	"	10/24/23	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0466	116 %	50-150	"	"	"	10/24/23	"	
Surrogate: Toluene-d8	0.0358	89.4 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.320	800 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	250	50	mg/kg	1	BGJ0908	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.4	83.3 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV W 7FT
2310421-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0392	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	0.00874	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00849	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00510	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00556	0.00500	"	"	"	"	"	"	
Fluorene	0.0448	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00666	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.670	0.500	"	100	"	"	10/24/23	"	
2-Methylnaphthalene	1.64	0.500	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.177	530 %	40-150		"	"	10/23/23	"	S-02
Surrogate: Fluoranthene-d10	0.0197	59.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 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 - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV W 7FT
2310421-09 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.605	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	56.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.69	0.400	"	"	"	"	"	"	
Lead	5.29	0.200	"	"	"	"	"	"	
Nickel	3.22	0.400	"	"	"	"	"	"	
Silver	0.0454	0.0200	"	"	"	"	"	"	
Zinc	14.0	0.400	"	"	"	"	"	"	
Selenium	0.310	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.9	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	23.7	0.0500	"	"	"	"	"	"	
Sodium	49.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.70	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

SB-PWV W 7FT
2310421-09 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.2	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

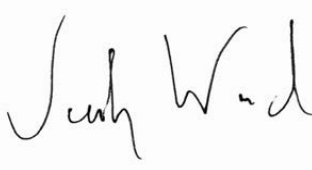
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.335	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV W2 7FT
2310421-10 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.024	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	1.3	0.050	"	10	"	"	10/24/23	"	
Xylenes (total)	1.6	0.010	"	1	"	"	10/24/23	"	
1,2,4-Trimethylbenzene	15	0.050	"	10	"	"	"	"	E
1,3,5-Trimethylbenzene	9.7	0.050	"	"	"	"	"	"	E
Naphthalene	0.30	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	750	5.0	"	10	"	"	10/24/23	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0765	191 %	50-150	"	"	"	10/24/23	"	S-02
<i>Surrogate: Toluene-d8</i>	0.0406	101 %	50-150	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.222	554 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	180	50	mg/kg	1	BGJ0908	10/23/23	10/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	10.2	81.8 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV W2 7FT
2310421-10 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0122	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0117	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.205	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.539	0.00500	"	"	"	"	"	"	E

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0238	71.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0240	72.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

**SB-PWV W2 7FT
2310421-10 (Soil)**

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.701	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B
Barium	53.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.19	0.400	"	"	"	"	"	"
Lead	5.49	0.200	"	"	"	"	"	"
Nickel	2.38	0.400	"	"	"	"	"	"
Silver	0.0279	0.0200	"	"	"	"	"	"
Zinc	9.29	0.400	"	"	"	"	"	"
Selenium	0.489	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.9	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	12.9	0.0500	"	"	"	"	"	"	
Sodium	60.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.30	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

**SB-PWV W2 7FT
 2310421-10 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.8	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.398	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.30		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV S2 6FT
2310421-11 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.059	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.11	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	14	0.50	"	100	"	"	10/24/23	"	
1,3,5-Trimethylbenzene	7.7	0.50	"	"	"	"	"	"	
Naphthalene	1.0	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	460	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0456	114 %	50-150		"	"	10/24/23	"	
Surrogate: Toluene-d8	0.0308	77.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.232	580 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	250	50	mg/kg	1	BGJ0908	10/23/23	10/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.8	86.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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11/02/23 10:22

SB-PWV S2 6FT
2310421-11 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0343	0.00500	mg/kg	1	BGJ0864	10/23/23	10/23/23	EPA 8270D SIM	
Anthracene	0.00829	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00626	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	0.00528	0.00500	"	"	"	"	"	"	
Fluorene	0.0369	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.419	0.100	"	20	"	"	10/24/23	"	
2-Methylnaphthalene	1.27	0.100	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.118	355 %	40-150		"	"	10/23/23	"	S-02
Surrogate: Fluoranthene-d10	0.0180	54.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

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SB-PWV S2 6FT
2310421-11 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.514	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	46.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.72	0.400	"	"	"	"	"	"	
Lead	5.95	0.200	"	"	"	"	"	"	
Nickel	2.64	0.400	"	"	"	"	"	"	
Silver	0.0272	0.0200	"	"	"	"	"	"	
Zinc	8.10	0.400	"	"	"	"	"	"	
Selenium	0.438	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.7	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	13.5	0.0500	"	"	"	"	"	"	
Sodium	48.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.25	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB-PWV S2 6FT
2310421-11 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.3	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.419	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.93		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV E 7FT
2310421-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0064	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.019	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.038	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.027	0.0050	"	"	"	"	"	"	
Naphthalene	0.023	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	470	5.0	"	10	"	"	10/24/23	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0509	127 %	50-150		"	"	10/24/23	"	
Surrogate: Toluene-d8	0.0360	89.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.211	527 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	180	50	mg/kg	1	BGJ0908	10/23/23	10/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.37	75.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV E 7FT
2310421-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0390	0.00500	mg/kg	1	BGJ0864	10/23/23	10/24/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0102	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00610	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00696	0.00500	"	"	"	"	"	"	
Fluorene	0.0540	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0118	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.577	0.100	"	20	"	"	10/24/23	"	
2-Methylnaphthalene	1.62	0.100	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.106	318 %	40-150	"	"	"	10/24/23	"	S-02
Surrogate: Fluoranthene-d10	0.0159	47.8 %	40-150	"	"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - Boulter 64N65W

Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV E 7FT
2310421-12 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.01	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	40.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.33	0.400	"	"	"	"	"	"	
Lead	3.90	0.200	"	"	"	"	"	"	
Nickel	1.94	0.400	"	"	"	"	"	"	
Silver	0.0382	0.0200	"	"	"	"	"	"	
Zinc	11.9	0.400	"	"	"	"	"	"	
Selenium	1.87	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.1	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	13.2	0.0500	"	"	"	"	"	"	
Sodium	17.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.607	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

SB-PWV E 7FT
2310421-12 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.7	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.353	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV E2 5FT
2310421-13 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0055	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	8.7	0.050	"	10	"	"	10/24/23	"	E
Xylenes (total)	ND	0.010	"	1	"	"	10/24/23	"	
1,2,4-Trimethylbenzene	48	0.050	"	10	"	"	10/24/23	"	E
1,3,5-Trimethylbenzene	36	0.050	"	"	"	"	10/24/23	"	E
Naphthalene	0.079	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	3000	5.0	"	10	"	"	10/24/23	"	E

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0520	130 %	50-150		"	"	10/24/23	"	
Surrogate: Toluene-d8	2.22	5540 %	50-150		"	"	10/24/23	"	S-02
Surrogate: 4-Bromofluorobenzene	0.00	%	50-150		"	"	10/24/23	"	S-01

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	530	50	mg/kg	1	BGJ0908	10/23/23	10/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.7	93.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV E2 5FT
2310421-13 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0509	0.00500	mg/kg	1	BGJ0864	10/23/23	10/24/23	EPA 8270D SIM	
Anthracene	0.00638	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0102	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00613	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00674	0.00500	"	"	"	"	"	"	
Fluorene	0.0650	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00836	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	1.06	0.100	"	20	"	"	10/24/23	"	
2-Methylnaphthalene	3.19	0.100	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0632	190 %	40-150		"	"	10/24/23	"	S-02
Surrogate: Fluoranthene-d10	0.0140	41.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV E2 5FT
2310421-13 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.951	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	42.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.59	0.400	"	"	"	"	"	"	
Lead	3.30	0.200	"	"	"	"	"	"	
Nickel	1.78	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.06	0.400	"	"	"	"	"	"	
Selenium	1.03	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.0	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	19.9	0.0500	"	"	"	"	"	"	
Sodium	46.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.47	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Wellington CO, 80549

Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

**SB-PWV E2 5FT
 2310421-13 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.7		%	1	BGJ1130	10/27/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.453	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulder 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV E3 7FT
2310421-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.031	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.022	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.013	0.0050		"	"	"	"	"	"	
Naphthalene	0.014	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/19/23 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	0.0357	89.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0371	92.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGJ0908	10/23/23	10/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.68	69.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Boulder 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV E3 7FT
2310421-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0864	10/23/23	10/24/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	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: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0200	60.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV E3 7FT
2310421-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.963	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	82.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.43	0.400	"	"	"	"	"	"	
Lead	3.08	0.200	"	"	"	"	"	"	
Nickel	1.68	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.77	0.400	"	"	"	"	"	"	
Selenium	1.57	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.3	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	23.0	0.0500	"	"	"	"	"	"	
Sodium	90.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.67	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

**SB-PWV E3 7FT
 2310421-14 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.6		%	1	BGJ1130	10/27/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.819	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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PO Box 1289
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV N 7FT
2310421-15 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.039	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.27	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.88	0.0050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	0.43	0.0050	"	"	"	"	"	"	
Naphthalene	0.083	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	48	0.50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0456	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0319	79.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.134	336 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0908	10/23/23	10/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.11	64.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV N 7FT
2310421-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0596	0.00500	mg/kg	1	BGJ0864	10/23/23	10/24/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0106	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00640	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00730	0.00500	"	"	"	"	"	"	
Fluorene	0.0705	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0119	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.931	0.100	"	20	"	"	10/24/23	"	
2-Methylnaphthalene	2.91	0.100	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0455	136 %	40-150	"	"	"	10/24/23	"	
Surrogate: Fluoranthene-d10	0.0168	50.5 %	40-150	"	"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

**SB-PWV N 7FT
2310421-15 (Soil)**

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.629	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	25.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.930	0.400	"	"	"	"	"	"	
Lead	3.71	0.200	"	"	"	"	"	"	
Nickel	2.81	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.19	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.9	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	17.3	0.0500	"	"	"	"	"	"	
Sodium	64.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.49	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
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Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

**SB-PWV N 7FT
 2310421-15 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.6		%	1	BGJ1130	10/27/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.586	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV N2 7FT
2310421-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	1.1	0.050	"	10	"	"	10/24/23	"	
Xylenes (total)	22	0.10	"	"	"	"	10/24/23	"	E
1,2,4-Trimethylbenzene	15	0.050	"	"	"	"	10/24/23	"	E
1,3,5-Trimethylbenzene	10	0.050	"	"	"	"	"	"	E
Naphthalene	0.22	0.0038	"	1	"	"	10/24/23	"	
Gasoline Range Hydrocarbons	780	5.0	"	10	"	"	10/24/23	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.105	263 %	50-150		"	"	10/24/23	"	S-02
Surrogate: Toluene-d8	0.112	280 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.752	1880 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	240	50	mg/kg	1	BGJ0908	10/23/23	10/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.99	48.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV N2 7FT
2310421-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0454	0.00500	mg/kg	1	BGJ0864	10/23/23	10/24/23	EPA 8270D SIM	
Anthracene	0.00689	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00935	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00554	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00643	0.00500	"	"	"	"	"	"	
Fluorene	0.0567	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0104	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.809	0.100	"	20	"	"	10/24/23	"	
2-Methylnaphthalene	2.23	0.100	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0674	202 %	40-150		"	"	10/24/23	"	S-02
Surrogate: Fluoranthene-d10	0.0131	39.3 %	40-150		"	"	"	"	S-04

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV N2 7FT
2310421-16 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.512	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	22.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.14	0.400	"	"	"	"	"	"	
Lead	3.79	0.200	"	"	"	"	"	"	
Nickel	1.83	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.13	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.9	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	10.9	0.0500	"	"	"	"	"	"	
Sodium	39.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.73	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

**SB-PWV N2 7FT
 2310421-16 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.4		%	1	BGJ1130	10/27/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.424	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV N3 6FT
2310421-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.022	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.075	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.83	0.0050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	0.19	0.0050	"	"	"	"	"	"	
Naphthalene	0.060	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	97	0.50	"	"	"	"	"	"	E

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0422	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0380	94.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.182	455 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	120	50	mg/kg	1	BGJ0908	10/23/23	10/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.04	48.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV N3 6FT
2310421-17 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00583	0.00500	mg/kg	1	BGJ0864	10/23/23	10/24/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00606	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0903	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.218	0.00500	"	"	"	"	"	"	E

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0126	37.7 %	40-150		"	"	"	"	S-04

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 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 - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

**SB-PWV N3 6FT
2310421-17 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.595	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	23.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.65	0.400	"	"	"	"	"	"	
Lead	4.04	0.200	"	"	"	"	"	"	
Nickel	1.76	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.89	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.1	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	15.8	0.0500	"	"	"	"	"	"	
Sodium	70.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.54	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

**SB-PWV N3 6FT
 2310421-17 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BGJ1130	10/27/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.663	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W

Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

BKG-1 8FT
2310421-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.324	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	21.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.31	0.400	"	"	"	"	"	"	
Lead	3.23	0.200	"	"	"	"	"	"	
Nickel	1.49	0.400	"	"	"	"	"	"	
Silver	0.0219	0.0200	"	"	"	"	"	"	
Zinc	6.65	0.400	"	"	"	"	"	"	
Selenium	2.79	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	38.7	0.0500	mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	19.3	0.0500	"	"	"	"	"	"	
Sodium	106	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

BKG-1 8FT
2310421-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.48	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.1		%	1	BGJ1130	10/27/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.802	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

BKG-2 8FT
2310421-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.35	0.200		mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	20.6	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	4.21	0.400		"	"	"	"	"	"	
Lead	3.59	0.200		"	"	"	"	"	"	
Nickel	2.29	0.400		"	"	"	"	"	"	
Silver	0.0203	0.0200		"	"	"	"	"	"	
Zinc	8.21	0.400		"	"	"	"	"	"	
Selenium	1.06	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	33.7	0.0500		mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	15.6	0.0500		"	"	"	"	"	"	
Sodium	93.4	0.0500		"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

BKG-2 8FT
2310421-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.34	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	BGJ1130	10/27/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.703	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

BKG-3 8FT
2310421-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.98	0.200		mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	31.8	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.41	0.400		"	"	"	"	"	"	
Lead	3.60	0.200		"	"	"	"	"	"	
Nickel	2.17	0.400		"	"	"	"	"	"	
Silver	0.0256	0.0200		"	"	"	"	"	"	
Zinc	11.4	0.400		"	"	"	"	"	"	
Selenium	3.28	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	40.6	0.0500		mg/L dry	1	BGJ1085	10/26/23	10/31/23	EPA 6020B	
Magnesium	23.5	0.0500		"	"	"	"	"	"	
Sodium	125	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

BKG-3 8FT
2310421-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.86	0.00100	units	1	BGK0020	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.2		%	1	BGJ1130	10/27/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.888	0.0100	mmhos/cm	1	BGJ1108	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BGJ1107	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W

Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

BKG-4 8FT
2310421-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.09	0.200		mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	62.7	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.60	0.400		"	"	"	"	"	"	
Lead	4.13	0.200		"	"	"	"	"	"	
Nickel	2.16	0.400		"	"	"	"	"	"	
Silver	0.0260	0.0200		"	"	"	"	"	"	
Zinc	9.01	0.400		"	"	"	"	"	"	
Selenium	14.9	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	25.5	0.0500		mg/L dry	1	BGJ1086	10/26/23	10/31/23	EPA 6020B	
Magnesium	13.9	0.0500		"	"	"	"	"	"	
Sodium	82.0	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

BKG-4 8FT
2310421-21 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.25	0.00100	units	1	BGK0018	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	BGJ1130	10/27/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.604	0.0100	mmhos/cm	1	BGJ1105	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.60		pH Units	1	BGJ1103	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W

Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

BKG-5 8FT
2310421-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.786	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	28.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.17	0.400	"	"	"	"	"	"	
Lead	3.42	0.200	"	"	"	"	"	"	
Nickel	1.31	0.400	"	"	"	"	"	"	
Silver	0.0200	0.0200	"	"	"	"	"	"	
Zinc	6.97	0.400	"	"	"	"	"	"	
Selenium	1.42	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	43.7	0.0500	mg/L dry	1	BGJ1086	10/26/23	10/31/23	EPA 6020B	
Magnesium	19.0	0.0500	"	"	"	"	"	"	
Sodium	125	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

BKG-5 8FT
2310421-22 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.97	0.00100	units	1	BGK0018	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.9		%	1	BGJ1130	10/27/23	10/30/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.599	0.0100	mmhos/cm	1	BGJ1105	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BGJ1103	10/27/23	10/30/23	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

SB-SEP CEN
2310421-23 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	7.7	1.0		ug/l	1	BGJ0909	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	100	1.0		"	"	"	"	"	"	
Xylenes (total)	450	2.0		"	"	"	"	"	"	
Naphthalene	4.0	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	210	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	50	1.0		"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.8	103 %		23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	12.6	94.7 %		20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	15.6	117 %		21-167		"	"	"	"	

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV S 8FT
2310421-24 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.025	0.0020	mg/kg	1	BGJ0905	10/23/23	10/24/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	1.2	0.50	"	100	"	"	10/24/23	"	
Xylenes (total)	3.6	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	23	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	14	0.50	"	"	"	"	"	"	
Naphthalene	1.4	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	970	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0536	134 %	50-150		"	"	10/24/23	"	
Surrogate: Toluene-d8	0.0296	74.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.498	1250 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	410	50	mg/kg	1	BGJ0908	10/23/23	10/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.3	90.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV S 8FT
2310421-24 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0271	0.00500	mg/kg	1	BGJ0864	10/23/23	10/24/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00705	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0301	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.349	0.100	"	20	"	"	10/24/23	"	
2-Methylnaphthalene	0.974	0.100	"	"	"	"	"	"	

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0671	201 %	40-150		"	"	10/24/23	"	S-02
Surrogate: Fluoranthene-d10	0.0158	47.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ1115	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

SB-PWV S 8FT
2310421-24 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.854	0.200	mg/kg dry	1	BGJ1128	10/27/23	11/01/23	EPA 6020B	
Barium	50.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.47	0.400	"	"	"	"	"	"	
Lead	6.66	0.200	"	"	"	"	"	"	
Nickel	2.21	0.400	"	"	"	"	"	"	
Silver	0.0436	0.0200	"	"	"	"	"	"	
Zinc	10.1	0.400	"	"	"	"	"	"	
Selenium	0.712	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0998	10/25/23	10/25/23	EPA 7196A	

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

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.5	0.0500	mg/L dry	1	BGJ1086	10/26/23	10/31/23	EPA 6020B	
Magnesium	24.7	0.0500	"	"	"	"	"	"	
Sodium	26.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.809	0.00100	units	1	BGK0018	11/01/23	11/01/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/19/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Boulter 64N65W
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Reported:
 11/02/23 10:22

SB-PWV S 8FT
2310421-24 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.5	%	1	BGJ1130	10/27/23	10/30/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.861	0.0100	mmhos/cm	1	BGJ1105	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/19/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BGJ1103	10/27/23	10/30/23	EPA 9045D	

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGJ0905 - EPA 5030 Soil MS

Blank (BGJ0905-BLK1)

Prepared & Analyzed: 10/23/23

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0415		"	0.0400		104		50-150			
<i>Surrogate: Toluene-d8</i>	0.0376		"	0.0400		93.9		50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0368		"	0.0400		91.9		50-150			

LCS (BGJ0905-BS1)

Prepared & Analyzed: 10/23/23

Benzene	0.114	0.0020	mg/kg	0.100		114		70-130			
Toluene	0.0949	0.0050	"	0.100		94.9		70-130			
Ethylbenzene	0.103	0.0050	"	0.100		103		70-130			
m,p-Xylene	0.204	0.010	"	0.200		102		70-130			
o-Xylene	0.0967	0.0050	"	0.100		96.7		70-130			
1,2,4-Trimethylbenzene	0.0992	0.0050	"	0.100		99.2		70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101		70-130			
Naphthalene	0.0867	0.0038	"	0.100		86.7		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0430		"	0.0400		107		50-150			
<i>Surrogate: Toluene-d8</i>	0.0370		"	0.0400		92.5		50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0367		"	0.0400		91.7		50-150			

Matrix Spike (BGJ0905-MS1)

Source: 2310410-01

Prepared & Analyzed: 10/23/23

Benzene	0.0990	0.0020	mg/kg	0.100	ND	99.0		70-130			
Toluene	0.0800	0.0050	"	0.100	ND	80.0		70-130			
Ethylbenzene	0.0762	0.0050	"	0.100	ND	76.2		70-130			
m,p-Xylene	0.150	0.010	"	0.200	ND	74.8		70-130			
o-Xylene	0.0720	0.0050	"	0.100	ND	72.0		70-130			
1,2,4-Trimethylbenzene	0.0944	0.0050	"	0.100	ND	94.4		70-130			
1,3,5-Trimethylbenzene	0.0944	0.0050	"	0.100	ND	94.4		70-130			
Naphthalene	0.0958	0.0038	"	0.100	ND	95.8		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0455		"	0.0400		114		50-150			
<i>Surrogate: Toluene-d8</i>	0.0376		"	0.0400		93.9		50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0368		"	0.0400		92.0		50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

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

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

Batch BGJ0905 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ0905-MSD1)	Source: 2310410-01			Prepared & Analyzed: 10/23/23						
Benzene	0.0968	0.0020	mg/kg	0.100	ND	96.8	70-130	2.30	30	
Toluene	0.0770	0.0050	"	0.100	ND	77.0	70-130	3.90	30	
Ethylbenzene	0.0744	0.0050	"	0.100	ND	74.4	70-130	2.35	30	
m,p-Xylene	0.146	0.010	"	0.200	ND	72.9	70-130	2.60	30	
o-Xylene	0.0716	0.0050	"	0.100	ND	71.6	70-130	0.669	30	
1,2,4-Trimethylbenzene	0.0922	0.0050	"	0.100	ND	92.2	70-130	2.31	30	
1,3,5-Trimethylbenzene	0.0925	0.0050	"	0.100	ND	92.5	70-130	2.12	30	
Naphthalene	0.0914	0.0038	"	0.100	ND	91.4	70-130	4.68	30	
Surrogate: 1,2-Dichloroethane-d4	0.0459		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0366		"	0.0400		91.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400		93.0	50-150			

Batch BGJ0909 - EPA 5030 Water MS

Blank (BGJ0909-BLK1)	Prepared & Analyzed: 10/23/23									
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	10.6		"	13.3		79.2	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.6	20-170			
Surrogate: 4-Bromofluorobenzene	14.7		"	13.3		110	21-167			

LCS (BGJ0909-BS1)	Prepared & Analyzed: 10/23/23									
Benzene	39.5	1.0	ug/l	33.3		118	51-132			
Toluene	40.2	1.0	"	33.3		121	51-138			
Ethylbenzene	41.3	1.0	"	33.3		124	58-146			
m,p-Xylene	83.2	2.0	"	66.7		125	57-144			
o-Xylene	35.6	1.0	"	33.3		107	53-146			
Naphthalene	23.5	1.0	"	33.3		70.6	70-130			
1,2,4-Trimethylbenzene	34.8	1.0	"	33.3		105	70-130			
1,3,5-Trimethylbenzene	37.3	1.0	"	33.3		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	11.2		"	13.3		83.6	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.5	21-167			

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Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

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

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

Batch BGJ0909 - EPA 5030 Water MS

Matrix Spike (BGJ0909-MS1)

Source: 2310418-01

Prepared & Analyzed: 10/23/23

Benzene	35.0	1.0	ug/l	33.3	ND	105	34-141			
Toluene	45.0	1.0	"	33.3	ND	135	27-151			
Ethylbenzene	38.4	1.0	"	33.3	ND	115	29-160			
m,p-Xylene	79.4	2.0	"	66.7	ND	119	20-166			
o-Xylene	33.8	1.0	"	33.3	ND	101	33-159			
Naphthalene	25.3	1.0	"	33.3	ND	75.8	70-130			
1,2,4-Trimethylbenzene	36.4	1.0	"	33.3	ND	109	70-130			
1,3,5-Trimethylbenzene	37.8	1.0	"	33.3	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.1		"	13.3		91.0	23-173			
Surrogate: Toluene-d8	16.6		"	13.3		124	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	21-167			

Matrix Spike Dup (BGJ0909-MSD1)

Source: 2310418-01

Prepared & Analyzed: 10/23/23

Benzene	37.5	1.0	ug/l	33.3	ND	113	34-141	6.81	30	
Toluene	39.2	1.0	"	33.3	ND	118	27-151	13.8	30	
Ethylbenzene	39.2	1.0	"	33.3	ND	118	29-160	2.16	30	
m,p-Xylene	78.8	2.0	"	66.7	ND	118	20-166	0.772	30	
o-Xylene	34.2	1.0	"	33.3	ND	102	33-159	1.12	30	
Naphthalene	22.7	1.0	"	33.3	ND	68.1	70-130	10.7	30	QM-07
1,2,4-Trimethylbenzene	33.1	1.0	"	33.3	ND	99.3	70-130	9.47	30	
1,3,5-Trimethylbenzene	35.0	1.0	"	33.3	ND	105	70-130	7.74	30	
Surrogate: 1,2-Dichloroethane-d4	10.8		"	13.3		80.9	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	21-167			

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGJ0908 - EPA 3550A

Blank (BGJ0908-BLK1)

Prepared & Analyzed: 10/23/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	17.8		"	12.5		143		30-150			

LCS (BGJ0908-BS1)

Prepared & Analyzed: 10/23/23

C10-C28 (DRO)	453	50	mg/kg	500		90.6		70-130			
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5		117		30-150			

Matrix Spike (BGJ0908-MS1)

Source: 2310410-01

Prepared & Analyzed: 10/23/23

C10-C28 (DRO)	153	50	mg/kg	500	25.5	25.5		70-130			QM-07
Surrogate: <i>o</i> -Terphenyl	5.85		"	12.5		46.8		30-150			

Matrix Spike Dup (BGJ0908-MSD1)

Source: 2310410-01

Prepared & Analyzed: 10/23/23

C10-C28 (DRO)	449	50	mg/kg	500	25.5	84.6		70-130	98.3	20	QR-04
Surrogate: <i>o</i> -Terphenyl	14.7		"	12.5		118		30-150			

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Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

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

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

Batch BGJ0864 - EPA 5030 Soil MS

Blank (BGJ0864-BLK1)

Prepared & Analyzed: 10/23/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0328</i>		"	<i>0.0333</i>		<i>98.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0324</i>		"	<i>0.0333</i>		<i>97.2</i>	<i>40-150</i>			

LCS (BGJ0864-BS1)

Prepared & Analyzed: 10/23/23

Acenaphthene	0.0307	0.00500	mg/kg	0.0333		92.0	31-137			
Anthracene	0.0305	0.00500	"	0.0333		91.6	30-120			
Benzo (a) anthracene	0.0263	0.00500	"	0.0333		78.9	30-120			
Benzo (a) pyrene	0.0288	0.00500	"	0.0333		86.3	30-120			
Benzo (b) fluoranthene	0.0283	0.00500	"	0.0333		85.0	30-120			
Benzo (k) fluoranthene	0.0310	0.00500	"	0.0333		92.9	30-120			
Chrysene	0.0316	0.00500	"	0.0333		94.8	30-120			
Dibenz (a,h) anthracene	0.0262	0.00500	"	0.0333		78.6	30-120			
Fluoranthene	0.0290	0.00500	"	0.0333		86.9	30-120			
Fluorene	0.0305	0.00500	"	0.0333		91.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333		62.1	30-120			
Pyrene	0.0332	0.00500	"	0.0333		99.5	35-142			
1-Methylnaphthalene	0.0301	0.00500	"	0.0333		90.4	35-142			
2-Methylnaphthalene	0.0317	0.00500	"	0.0333		95.2	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0322</i>		"	<i>0.0333</i>		<i>96.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0300</i>		"	<i>0.0333</i>		<i>89.9</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGJ0864 - EPA 5030 Soil MS

Matrix Spike (BGJ0864-MS1)	Source: 2310420-01			Prepared & Analyzed: 10/23/23							
Acenaphthene	0.0166	0.00500	mg/kg	0.0333	ND	49.7	31-137				
Anthracene	0.0181	0.00500	"	0.0333	ND	54.3	30-120				
Benzo (a) anthracene	0.0170	0.00500	"	0.0333	ND	50.9	30-120				
Benzo (a) pyrene	0.0207	0.00500	"	0.0333	ND	62.1	30-120				
Benzo (b) fluoranthene	0.0224	0.00500	"	0.0333	ND	67.1	30-120				
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.6	30-120				
Chrysene	0.0208	0.00500	"	0.0333	ND	62.3	30-120				
Dibenz (a,h) anthracene	0.0139	0.00500	"	0.0333	ND	41.6	30-120				
Fluoranthene	0.0220	0.00500	"	0.0333	0.00711	44.7	30-120				
Fluorene	0.0176	0.00500	"	0.0333	ND	52.8	30-120				
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333	ND	51.9	30-120				
Pyrene	0.0339	0.00500	"	0.0333	0.0206	40.0	35-142				
1-Methylnaphthalene	0.0178	0.00500	"	0.0333	ND	53.3	15-130				
2-Methylnaphthalene	0.0123	0.00500	"	0.0333	ND	36.8	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0172</i>		<i>"</i>	<i>0.0333</i>		<i>51.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0193</i>		<i>"</i>	<i>0.0333</i>		<i>57.8</i>	<i>40-150</i>				

Matrix Spike Dup (BGJ0864-MSD1)	Source: 2310420-01			Prepared & Analyzed: 10/23/23							
Acenaphthene	0.0177	0.00500	mg/kg	0.0333	ND	53.0	31-137	6.42	30		
Anthracene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	12.5	30		
Benzo (a) anthracene	0.0220	0.00500	"	0.0333	ND	66.0	30-120	25.8	30		
Benzo (a) pyrene	0.0260	0.00500	"	0.0333	ND	78.0	30-120	22.7	30		
Benzo (b) fluoranthene	0.0300	0.00500	"	0.0333	ND	90.0	30-120	29.1	30		
Benzo (k) fluoranthene	0.0252	0.00500	"	0.0333	ND	75.7	30-120	17.4	30		
Chrysene	0.0240	0.00500	"	0.0333	ND	71.9	30-120	14.2	30		
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	11.2	30		
Fluoranthene	0.0251	0.00500	"	0.0333	0.00711	53.9	30-120	13.0	30		
Fluorene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	8.75	30		
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333	ND	62.2	30-120	18.1	30		
Pyrene	0.0430	0.00500	"	0.0333	0.0206	67.0	35-142	23.4	30		
1-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.2	15-130	0.332	50		
2-Methylnaphthalene	0.0131	0.00500	"	0.0333	ND	39.2	15-130	6.39	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.5</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0209</i>		<i>"</i>	<i>0.0333</i>		<i>62.7</i>	<i>40-150</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

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

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

Batch BGJ1114 - EPA 3050B

Blank (BGJ1114-BLK1)		Prepared: 10/27/23 Analyzed: 11/01/23									
Boron	ND	2.00	mg/L								
LCS (BGJ1114-BS1)		Prepared: 10/27/23 Analyzed: 11/01/23									
Boron	4.72	2.00	mg/L	5.00	94.5	80-120					
Duplicate (BGJ1114-DUP1)		Source: 2310421-01		Prepared: 10/27/23 Analyzed: 11/01/23							
Boron	0.187	2.00	mg/L	0.217			14.6	20			
Matrix Spike (BGJ1114-MS1)		Source: 2310421-01		Prepared: 10/27/23 Analyzed: 11/01/23							
Boron	4.68	2.00	mg/L	5.00	0.217	89.2	75-125				
Matrix Spike Dup (BGJ1114-MSD1)		Source: 2310421-01		Prepared: 10/27/23 Analyzed: 11/01/23							
Boron	4.62	2.00	mg/L	5.00	0.217	88.0	75-125	1.34	25		

Batch BGJ1115 - EPA 3050B

Blank (BGJ1115-BLK1)		Prepared: 10/27/23 Analyzed: 11/02/23									
Boron	ND	2.00	mg/L								
LCS (BGJ1115-BS1)		Prepared: 10/27/23 Analyzed: 11/02/23									
Boron	5.41	2.00	mg/L	5.00	108	80-120					
Duplicate (BGJ1115-DUP1)		Source: 2310408-01		Prepared: 10/27/23 Analyzed: 11/02/23							
Boron	0.0223	2.00	mg/L	0.0367			48.6	20			QR-01
Matrix Spike (BGJ1115-MS1)		Source: 2310408-01		Prepared: 10/27/23 Analyzed: 11/02/23							
Boron	4.97	2.00	mg/L	5.00	0.0367	98.6	75-125				

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Fremont Environmental
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Project: Noble - Boulter 64N65W

Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

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

Summit Scientific

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

Batch BGJ1115 - EPA 3050B

Matrix Spike Dup (BGJ1115-MSD1)

Source: 2310408-01

Prepared: 10/27/23 Analyzed: 11/02/23

Boron	4.95	2.00	mg/L	5.00	0.0367	98.4	75-125	0.255	25	
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PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ1128 - EPA 3050B

Blank (BGJ1128-BLK1)

Prepared: 10/27/23 Analyzed: 11/01/23

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

LCS (BGJ1128-BS1)

Prepared: 10/27/23 Analyzed: 11/01/23

Arsenic	44.1	0.200	mg/kg wet	40.0	110	80-120
Barium	41.1	0.400	"	40.0	103	80-120
Cadmium	2.02	0.200	"	2.00	101	80-120
Copper	43.1	0.400	"	40.0	108	80-120
Lead	19.7	0.200	"	20.0	98.6	80-120
Nickel	43.0	0.400	"	40.0	108	80-120
Silver	2.00	0.0200	"	2.00	100	80-120
Zinc	43.0	0.400	"	40.0	108	80-120
Selenium	4.11	0.260	"	4.00	103	80-120

Duplicate (BGJ1128-DUP1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Arsenic	0.671	0.200	mg/kg dry	0.744	10.2	20
Barium	133	0.400	"	118	11.6	20
Cadmium	0.202	0.200	"	0.187	7.58	20
Copper	1.62	0.400	"	1.60	1.34	20
Lead	3.53	0.200	"	3.08	13.5	20
Nickel	2.09	0.400	"	1.97	5.95	20
Silver	0.0206	0.0200	"	0.0167	21.1	20
Zinc	6.67	0.400	"	6.73	0.990	20
Selenium	0.567	0.260	"	0.627	10.0	20

QR-01

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Boulter 64N65W

Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGJ1128 - EPA 3050B

Matrix Spike (BGJ1128-MS1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Arsenic	29.6	0.200	mg/kg dry	49.2	0.744	58.8	75-125				QM-07
Barium	260	0.400	"	49.2	118	288	75-125				QM-07
Cadmium	3.09	0.200	"	2.46	0.187	118	75-125				
Copper	28.1	0.400	"	49.2	1.60	54.0	75-125				QM-07
Lead	28.3	0.200	"	24.6	3.08	103	75-125				
Nickel	29.6	0.400	"	49.2	1.97	56.1	75-125				QM-07
Silver	2.56	0.0200	"	2.46	0.0167	104	75-125				
Zinc	32.7	0.400	"	49.2	6.73	52.8	75-125				QM-07
Selenium	9.78	0.260	"	4.92	0.627	186	75-125				QM-07

Matrix Spike Dup (BGJ1128-MSD1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Arsenic	29.9	0.200	mg/kg dry	49.2	0.744	59.4	75-125	1.01	25		QM-07
Barium	234	0.400	"	49.2	118	236	75-125	10.4	25		QM-07
Cadmium	2.78	0.200	"	2.46	0.187	105	75-125	10.7	25		
Copper	28.3	0.400	"	49.2	1.60	54.3	75-125	0.650	25		QM-07
Lead	25.7	0.200	"	24.6	3.08	92.1	75-125	9.49	25		
Nickel	29.7	0.400	"	49.2	1.97	56.4	75-125	0.410	25		QM-07
Silver	2.33	0.0200	"	2.46	0.0167	93.9	75-125	9.68	25		
Zinc	32.2	0.400	"	49.2	6.73	51.8	75-125	1.43	25		QM-07
Selenium	9.54	0.260	"	4.92	0.627	181	75-125	2.49	25		QM-07

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGJ0998 - 3060A Mod

Blank (BGJ0998-BLK1)

Prepared & Analyzed: 10/25/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ0998-BS1)

Prepared & Analyzed: 10/25/23

Chromium, Hexavalent 25.9 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BGJ0998-DUP1)

Source: 2310421-01

Prepared & Analyzed: 10/25/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ0998-MS1)

Source: 2310421-01

Prepared & Analyzed: 10/25/23

Chromium, Hexavalent 31.2 0.30 mg/kg dry 30.7 ND 102 75-125

Matrix Spike Dup (BGJ0998-MSD1)

Source: 2310421-01

Prepared & Analyzed: 10/25/23

Chromium, Hexavalent 31.1 0.30 mg/kg dry 30.7 ND 101 75-125 0.395 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

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

Summit Scientific

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

Batch BGJ1085 - General Preparation

Blank (BGJ1085-BLK1)

Prepared: 10/26/23 Analyzed: 10/31/23

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

LCS (BGJ1085-BS1)

Prepared: 10/26/23 Analyzed: 10/31/23

Calcium	4.74	0.0500	mg/L wet	5.00	94.8	70-130
Magnesium	4.94	0.0500	"	5.00	98.9	70-130
Sodium	5.03	0.0500	"	5.00	101	70-130

Batch BGJ1086 - General Preparation

Blank (BGJ1086-BLK1)

Prepared: 10/26/23 Analyzed: 10/31/23

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

LCS (BGJ1086-BS1)

Prepared: 10/26/23 Analyzed: 10/31/23

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.50	0.0500	"	5.00	110	70-130
Sodium	5.50	0.0500	"	5.00	110	70-130

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W

Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

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

Summit Scientific

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

Batch BGJ1130 - General Preparation


Duplicate (BGJ1130-DUP1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 10/30/23

% Solids	79.0		%		81.4			2.91		20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W
 Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

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

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

Batch BGJ1105 - General Preparation

Blank (BGJ1105-BLK1)

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ1105-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGJ1105-DUP1)

Source: 2310140-03

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.161 0.0100 mmhos/cm 0.161 0.00 20

Batch BGJ1108 - General Preparation

Blank (BGJ1108-BLK1)

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ1108-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGJ1108-DUP1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.344 0.0100 mmhos/cm 0.344 0.00 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Boulter 64N65W

Project Number: UWRWE-A1028-ABN
 Project Manager: Paul Henchan

Reported:
 11/02/23 10:22

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

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

Batch BGJ1103 - General Preparation

LCS (BGJ1103-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

pH	9.05		pH Units	9.18		98.6	95-105		
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Duplicate (BGJ1103-DUP1)

Source: 2310140-04

Prepared: 10/27/23 Analyzed: 10/30/23

pH	8.51		pH Units		8.51			0.00	20
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Batch BGJ1107 - General Preparation

LCS (BGJ1107-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

pH	9.05		pH Units	9.18		98.6	95-105		
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Duplicate (BGJ1107-DUP1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 10/30/23

pH	9.22		pH Units		9.22			0.00	20
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PO Box 1289
Wellington CO, 80549

Project: Noble - Boulter 64N65W
Project Number: UWRWE-A1028-ABN
Project Manager: Paul Henchan

Reported:
11/02/23 10:22

Notes and Definitions

- S-04 A sample matrix effect prevented complete surrogate recovery.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-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-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference