

FREMONT ENVIRONMENTAL INC.

December 12, 2022

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Ave,
Greeley, CO 80634

Subject: **Excavation Report**
 Branch 1-3
 API# 05-123-12513
 NENE Sec 3, T4N, R64W
 Weld County, Colorado
 Fremont Project No. C022-066
 Facility #323068, Remediation #21830

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Excavation Report for the Branch 1-3 facility release site in Weld County, Colorado. The enclosed report describes remedial actions to remove impacted soil from the site.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.

A handwritten signature in blue ink, appearing to read "Paul V. Henahan".

Paul V. Henahan, P.E.
Senior Consultant

Enclosure

EXCAVATION REPORT

NOBLE ENERGY INC.

BRANCH 1-3

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-066

FACILITY #323068, REMEDIATION #21830

Prepared by:

**Fremont Environmental Inc.
1759 Redwing Lane
Broomfield, CO 80020
(303) 956-8714**

December 12, 2022

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EXCAVATION REPORT
NOBLE ENERGY INC.
BRANCH 1-3
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-066
FACILITY #323068, REMEDIATION #21830

1.0 INTRODUCTION

The purpose of this document is to present information collected during the excavation of petroleum-impacted soil at the Branch 1-3 location in Weld County, Colorado. This excavation project was completed on October 14, 2022.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Branch facility is located approximately 3.6 miles southeast of Kersey, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.2 miles west of the intersection of County Road 50 and County Road 57. The location is further described as the NE ¼ of the NE ¼ of Section 3, Township 4N, Range 64W.

2.2 Site History

The Branch tank battery services the Branch 1-3 natural gas well. The Branch 1-3 well was drilled in 1985 to a depth of approximately 6,900 feet.

In June 2022, a historical release was discovered within the produced water vault (PWV) excavation during decommissioning activities at the Branch facility. On June 29, 2022, a site investigation, utilizing a Geoprobe rig, advanced 10 soil borings delineating the magnitude and extent of soil impacts produced by the historical release. Groundwater was not encountered at that time.

3.0 FIELD ACTIVITIES

Remediation efforts consisted of a multi-day excavation of the petroleum-impacted soil directly beneath, and adjacent to the areas of the PWV. The excavation extent measured roughly 90 feet x 90 feet with a maximum depth varying from 11 feet to 13 feet. The soil consisted of silty sand with some clay to a depth of 10 feet, then progressed into a siltstone/claystone down to the excavation's maximum depth of 13 feet. Groundwater was encountered seeping in from the sidewall at approximately 11 feet to 12 feet. The excavation extent is illustrated in Figures 2 through 7.

The multi-day excavation was completed at the Branch 1-3 on October 14, 2022. Multiple soil samples were collected from each of the sidewalls ranging from depths of seven feet to 10 feet and from the excavation's floor ranging from depths of 11 feet to 13 feet. Additionally, a groundwater sample was collected at the northeast corner of the excavation, where groundwater was found to be seeping into the excavation.

The soil samples were analyzed by Summit Scientific Inc. in Golden, Colorado for benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene, 1,2,3-trimethylbenzene and 1,3,5-trimethylbenzene (TMBs), Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-GRO) by EPA method 8260B, and TPH – Diesel Range Organics (TPH-DRO) and TPH-Residual Range Organics (TPH-ORO) by EPA method 8015, Polycyclic Aromatic Hydrocarbons (PAH): Acenaphthene, Anthracene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Chrysene, Dibenzo (a,h) anthracene, Fluoranthene, Fluorene, Indeno (1,2,3-cd) pyrene, Pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene by EPA method 8270D, Specific Conductance (EC) by EPA Method 120.1 saturated paste extraction, saturated paste extraction of soluble nutrients by EPA method 6020/USDA60 6(2) for calculated analysis of Sodium Absorption Ratio (SAR), pH by saturated paste extraction APHA/ASTM/EPA methods, Total Metals by EPA

method 6020B, and Hexavalent Chromium by EPA method 7196. The laboratory reports and chain-of-custody documentation are included in Appendix B.

A summary of the soil laboratory data is included in Tables 1 through 4. The laboratory analyses indicate that organic petroleum constituents collected from the south sidewall, east sidewall, west sidewall and floor of the excavation achieved the COGCC Table 915-1 protection of groundwater soil screening levels (PGSSLs). However, approximately 60 feet of the northern sidewall failed for benzene, 1,2,3-trimethylbenzene, naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene. Further excavation efforts to remove these impacts were not possible due to the presence of an overhead power line as well as an underground telephone line in the borrow ditch along County Road 50. As a result, soil impacts were left in place.

Specific conductivity (EC), pH, sodium absorption ratio (SAR), arsenic, barium, lead, selenium and chromium were found to exceed the COGCC Table 915-1 PGSSLs in several samples. A background sample, collected at a depth of seven feet in native soil adjacent to the Branch 1-3, also exceeded the COGCC Table 915-1 concentration limits for SAR, arsenic and selenium. Since elevated levels for these constituents were observed in both the excavation samples and background sample, these concentrations can partially be attributed to native soil conditions.

The groundwater sample (GW01), which was collected at the northeast corner floor of the excavation at a depth of 11 feet, was submitted to Summit Scientific, Inc. for the analyses of organic petroleum constituents including benzene, toluene, ethylbenzene, xylenes (BTEX), 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene and naphthalene by EPA Method 8260B as well as inorganic petroleum constituents chloride and sulfate by EPA Method 300.0.

The laboratory analysis indicated that the groundwater sample exceeded the COGCC Table 915-1 standard for benzene. The groundwater chemistry is shown on Figure 7 and the analytical data are summarized in Table 5. A copy of the laboratory's report is presented in Appendix B.

A total of 5,012 tons (~3,850 cubic yards) of petroleum-impacted soil was removed by 4X Industrial, LLC from the location during remediation efforts. The impacted soil was disposed of at the Buffalo Ridge Landfill in Keenesburg, Colorado as non-hazardous waste. The excavation was backfilled using imported fill and existing overburden set aside during the excavation. Laboratory analysis of the backfill was conducted ensuring no impacts were present.

4.0 DISCUSSION

As demonstrated by the soil sampling, petroleum impacted soil was largely removed from the Branch 1-3 location by excavation though impacts remain along the northern excavation wall. This was confirmed by analyses of soil samples collected from the exterior sidewalls and floor of the excavation. Impacts present along the 60-foot segment of the northern sidewall of the excavation require further investigation. It is anticipated that soil vapor extraction (SVE) may need to be installed to mitigate these impacts since further excavation is precluded by the overhead power lines, the underground telephone line and County Road 50.

Approximately 3,850 cubic yards of impacted soil were removed and transported to the Buffalo Ridge Landfill. The soil data are illustrated and summarized in the attached tables and figures.

5.0 REMARKS

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

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



12/12/22

Date_____

Jeff G. Griggs

Geologist

Reviewed by:



12/12/22

Date_____

Ethan D. Black, P.G.

Geologist

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC
BRANCH 1-3, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-066

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		
S01@7.0'	9/20/2022	7.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
WCS01@4.0'	9/23/2022	4.0 Ft	3.4	4	8.9	84	83	26	4.9	3100	6300	580
E01@10.0'	9/26/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	1.4	140	<50
S02@10.0'	9/26/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S03@10.0'	9/27/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	4.9	290	55
S04@10.0'	9/28/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B01@11.0'	9/28/2022	11.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W-S WALL 11Ft	9/30/2022	11.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W Wall 7Ft	9/30/2022	7.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B02@11.0'	10/3/2022	11.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
E02@10.0'	10/4/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	90	<50
E03@10.0'	10/5/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	13	280	62
B03@12.0'	10/6/2022	12.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	0.020	<0.0050	0.0070	1.1	82	<50
N01@10.0'	10/6/2022	10.0 Ft	0.028	<0.0050	0.028	<0.010	0.036	<0.0050	0.0082	12	85	<50
B04@13.0'	10/7/2022	13.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B05@13.0'	10/7/2022	13.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B06@12.0'	10/7/2022	12.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
N02@10.0'	10/10/2022	10.0 Ft	0.2	<0.0050	0.31	<0.010	0.59	<0.0050	0.11	25	170	<50
B07@12.0'	10/11/2022	12.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B08@12.0'	10/12/2022	12.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
N03@10.0'	10/12/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	160	<50
W02@10.0'	10/12/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B09@11'	10/13/2022	11.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S05@10'	10/13/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S06@10'	10/13/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W03@10'	10/13/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W05@10'	10/14/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S08@10'	10/14/2022	10.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

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)
Stock01	10/14/2022	N/A	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

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

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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC
BRANCH 1-3, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-066

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
S01@7.0'	9/20/2022	7.0 Ft	<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
WCS01@4.0'	9/23/2022	4.0 Ft	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.141	<0.0500	<0.0500	0.49	<0.0500	<0.0500	1.56	6.82
E01@10.0'	9/26/2022	10.0 Ft	<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
S02@10.0'	9/26/2022	10.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0181	<0.00500	<0.00500	0.213	0.334
S03@10.0'	9/27/2022	10.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0111	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
S04@10.0'	9/28/2022	10.0 Ft	<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
B01@11.0'	9/28/2022	11.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
W-S WALL 11Ft	9/30/2022	11.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
W Wall 7Ft	9/30/2022	7.0 Ft	<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
B02@11.0'	10/3/2022	11.0 Ft	<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
E02@10.0'	10/4/2022	10.0 Ft	<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
E03@10.0'	10/5/2022	10.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0125	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B03@12.0'	10/6/2022	12.0 Ft	<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
N01@10.0'	10/6/2022	10.0 Ft	<0.00500	0.00973	0.00700	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00583	<0.00500	<0.00500	0.0145	0.0415
B04@13.0'	10/7/2022	13.0 Ft	<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
B05@13.0'	10/7/2022	13.0 Ft	<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
B06@12.0'	10/7/2022	12.0 Ft	<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
N02@10.0'	10/10/2022	10.0 Ft	<0.00500	0.0382	<0.00500	<0.00500	<0.00500	<0.00500	0.00505	<0.00500	<0.00500	0.00778	<0.00500	<0.00500	0.110	0.184
B07@12.0'	10/11/2022	12.0 Ft	<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
B08@12.0'	10/12/2022	12.0 Ft	<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
N03@10.0'	10/12/2022	10.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00712	<0.00500	<0.00500	<0.00500	<0.00500
W02@10.0'	10/12/2022	10.0 Ft	<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
B09@11'	10/13/2022	11.0 Ft	<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
S05@10'	10/13/2022	10.0 Ft	<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
S06@10'	10/13/2022	10.0 Ft	<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
W03@10'	10/13/2022	10.0 Ft	<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
W05@10'	10/14/2022	10.0 Ft	<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
S08@10'	10/14/2022	10.0 Ft	<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

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 INORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC
BRANCH 1-3, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-066

Sample ID	Sample Date	Depth (ft)	EC (mmhos/cm)	pH	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			<4	6 - 8.3	<6	2
Site Specific Background Concentration/Value			3.0	7.81	7.2	0.261
S01@7.0'	9/20/2022	7.0 Ft	1.07	8.08	4.61	0.247
BKG01@7.0'	9/21/2022	7.0 Ft	3.0	7.81	7.2	0.261
WCS01@4.0'	9/23/2022	4.0 Ft	1.68	8.1	7.31	0.289
E01@10.0'	9/26/2022	10.0 Ft	5.45	8.07	9.35	0.327
S02@10.0'	9/26/2022	10.0 Ft	3.58	7.91	7	0.315
S03@10.0'	9/27/2022	10.0 Ft	3.44	8.14	7.65	0.319
S04@10.0'	9/28/2022	10.0 Ft	2.85	7.58	6.21	0.256
B01@11.0'	9/28/2022	11.0 Ft	3.44	7.54	7.31	0.296
W-S WALL 11Ft	9/30/2022	11.0 Ft	NA	NA	NA	NA
W Wall 7Ft	9/30/2022	7.0 Ft	NA	NA	NA	NA
B02@11.0'	10/3/2022	11.0 Ft	6.52	7.65	9.89	0.325
E02@10.0'	10/4/2022	10.0 Ft	6.39	7.7	7.59	0.422
E03@10.0'	10/5/2022	10.0 Ft	2.53	8.10	11.4	0.426
B03@12.0'	10/6/2022	12.0 Ft	0.701	8.02	5.73	0.277
N01@10.0'	10/6/2022	10.0 Ft	0.941	8.44	5.54	0.382
B04@13.0'	10/7/2022	13.0 Ft	1.38	8.02	7.79	0.206
B05@13.0'	10/7/2022	13.0 Ft	0.767	8.35	7.65	0.253
B06@12.0'	10/7/2022	12.0 Ft	1.43	8.19	9.33	0.384
N02@10.0'	10/10/2022	10.0 Ft	0.649	8.03	7.44	0.367

Sample ID	Sample Date	Depth (ft)	EC (mmhos/cm)	pH	SAR	Boron (mg/L)
B07@12.0'	10/11/2022	12.0 Ft	1.02	8.45	8.95	0.710
B08@12.0'	10/12/2022	12.0 Ft	1.58	8.13	9.30	0.421
N03@10.0'	10/12/2022	10.0 Ft	0.988	8.17	8.19	0.335
W02@10.0'	10/12/2022	10.0 Ft	2.11	7.96	8.33	0.347
B09@11'	10/13/2022	11.0 Ft	3.31	7.90	7.63	0.469
S05@10'	10/13/2022	10.0 Ft	2.98	8.00	11.1	0.865
S06@10'	10/13/2022	10.0 Ft	1.58	8.04	7.02	0.452
W03@10'	10/13/2022	10.0 Ft	2.17	8.01	8.03	0.552
W05@10'	10/14/2022	10.0 Ft	3.06	7.93	7.40	0.470
S08@10'	10/14/2022	10.0 Ft	3.76	7.93	9.10	0.522
W01@9'	10/14/2022	9.0 Ft	0.846	8.28	5.33	0.310

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
OPERATOR/ORGANIZATION
BRANCH 1-3, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-066

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium (VI) (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	3100	400	1500	390	390	23000	0.3
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	46	14	26	0.26	0.8	370	0.00067
S01@7.0'	9/20/2022	7.0 Ft	1.81	51	<0.211	4.28	4.86	4.55	0.501	<0.0211	8.9	<0.30
BKG01@7.0'	9/21/2022	7.0 Ft	3.16	31.1	<0.218	5.2	5.12	6.49	0.487	<0.0218	29.1	<0.30
WCS01@4.0'	9/23/2022	4.0 Ft	3.42	92	<0.227	<0.30	7.25	5.44	7.18	0.688	<0.0227	28.9
E01@10.0'	9/26/2022	10.0 Ft	1.43	50.5	<0.244	2.69	3.42	3.25	0.381	<0.0244	13.3	<0.30
S02@10.0'	9/26/2022	10.0 Ft	1.16	19.1	<0.240	8.27	6.59	2.45	0.407	<0.0240	19.9	<0.30
S03@10.0'	9/27/2022	10.0 Ft	26.9	143	<0.240	17.3	14.6	16.1	1.5	<0.0240	69	<0.30
S04@10.0'	9/28/2022	10.0 Ft	8.11	68.1	<0.237	15.3	14.4	16.2	1.34	0.0244	70.6	<0.30
B01@11.0'	9/28/2022	11.0 Ft	8.05	53.7	<0.233	12.3	9.12	14	1.11	0.0256	65.6	<0.30
W-S WALL 11Ft	9/30/2022	11.0 Ft	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W Wall 7Ft	9/30/2022	7.0 Ft	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B02@11.0'	10/3/2022	11.0 Ft	1.74	64	<0.213	3.42	3.87	4.28	0.557	<0.0213	16.2	<0.30
E02@10.0'	10/4/2022	10.0 Ft	5.29	41.6	<0.240	7.16	9.54	7.52	0.717	<0.0240	38.1	<0.30
E03@10.0'	10/5/2022	10.0 Ft	7.65	89.1	<0.244	8.39	9.29	11.4	0.863	<0.0244	49.9	<0.30
B03@12.0'	10/6/2022	12.0 Ft	7.69	87.9	<0.241	15.6	13.3	17.0	1.17	0.0301	74.4	<0.30
N01@10.0'	10/6/2022	10.0 Ft	6.04	67.8	<0.236	6.70	7.44	9.24	0.743	<0.0236	39.2	<0.30
B04@13.0'	10/7/2022	13.0 Ft	1.86	40.1	<0.243	8.04	18.8	8.47	<0.316	0.0384	36.8	<0.30
B05@13.0'	10/7/2022	13.0 Ft	1.72	67.9	<0.243	6.87	15.7	8.31	<0.315	0.0393	35.4	<0.30
B06@12.0'	10/7/2022	12.0 Ft	1.65	64.5	0.253	8.06	16.1	8.20	<0.314	0.0372	38.0	<0.30
N02@10.0'	10/10/2022	10.0 Ft	7.94	85.4	<0.233	13.5	11.0	14.6	0.930	<0.0233	62.5	<0.30
B07@12.0'	10/11/2022	12.0 Ft	1.89	35.6	<0.240	9.23	19.4	8.05	0.328	0.0350	37.5	<0.30
B08@12.0'	10/12/2022	12.0 Ft	1.26	18.9	<0.239	6.01	9.21	7.41	<0.311	0.165	32.6	<0.30
N03@10.0'	10/12/2022	10.0 Ft	2.27	106	<0.244	7.92	12.1	8.65	<0.317	0.171	34.6	<0.30
W02@10.0'	10/12/2022	10.0 Ft	2.19	306	<0.240	8.46	15.4	8.55	<0.312	0.162	37.7	<0.30
B09@11'	10/13/2022	11.0 Ft	3.38	44.0	<0.241	8.09	14.7	8.44	<0.314	0.0367	37.7	<0.30
S05@10'	10/13/2022	10.0 Ft	1.98	29.4	<0.241	8.42	15.9	8.53	<0.313	0.0366	37.0	<0.30
S06@10'	10/13/2022	10.0 Ft	1.92	42.2	<0.237	7.72	13.4	8.18	<0.308	0.0308	35.6	<0.30
W03@10'	10/13/2022	10.0 Ft	1.44	44.4	<0.241	6.96	13.8	7.78	<0.313	0.0366	33.9	<0.30
W05@10'	10/14/2022	10.0 Ft	2.13	34.4	<0.238	8.86	15.8	8.68	<0.309	2.27	39.0	<0.30

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium (VI) (mg/kg)
S08@10'	10/14/2022	10.0 Ft	2.20	57.8	<0.237	8.12	14.3	9.18	<0.308	2.17	39.7	<0.30
W01@9'	10/14/2022	9.0 Ft	2.10	50.4	0.237	5.31	6.66	6.33	<0.290	1.87	21.1	<0.30

Bold faced values exceed the COGCC Table 915-1 concentrations

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

NA - Not analyzed

TABLE 5
SUMMARY OF GROUNDWATER ORGANIC CHEMISTRY DATA
NOBLE ENERGY INC.
BRANCH 1-3, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-066

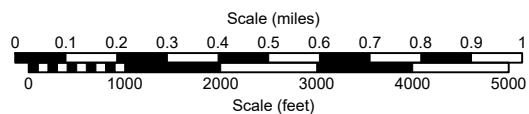
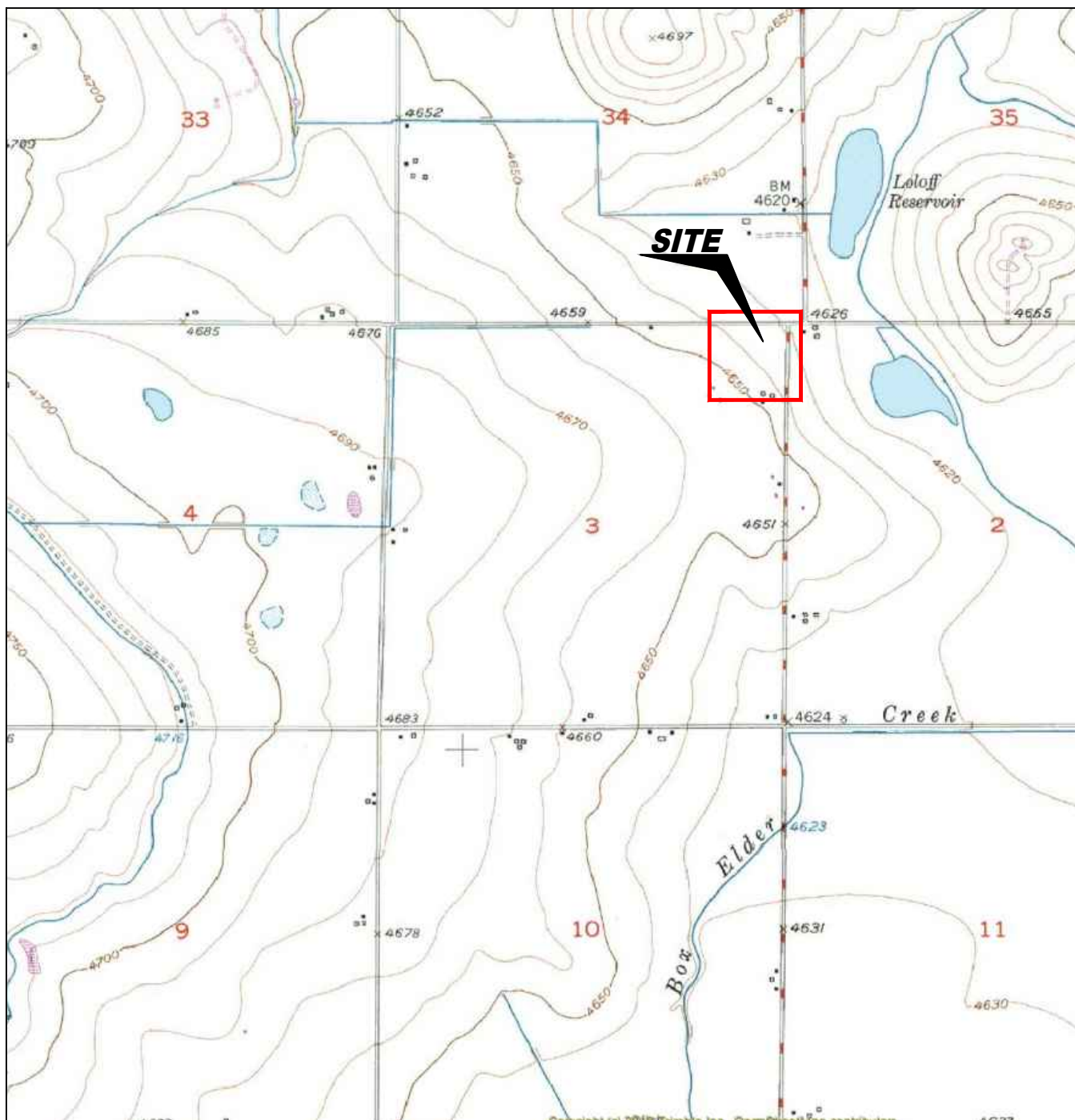
Sample ID	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
COGCC Table 915-1 Limits		5.0	560	700.0	1400	140	67	67				
GW01	10/13/2022	28	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA	NA

Bold face values exceed the COGCC limits

NP - No measureable LNAPL

DES - Destroyed

FIGURES



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Branch 1-3
NENE Sec. 3, T4N, R64W, 6th PM
Weld County, Colorado
40.348412°, -104.529767°

Project # C022-066	API # 05-123-12513	Facility # 323068
Date 11/29/22	Remediation # 21830	Filename 22066T



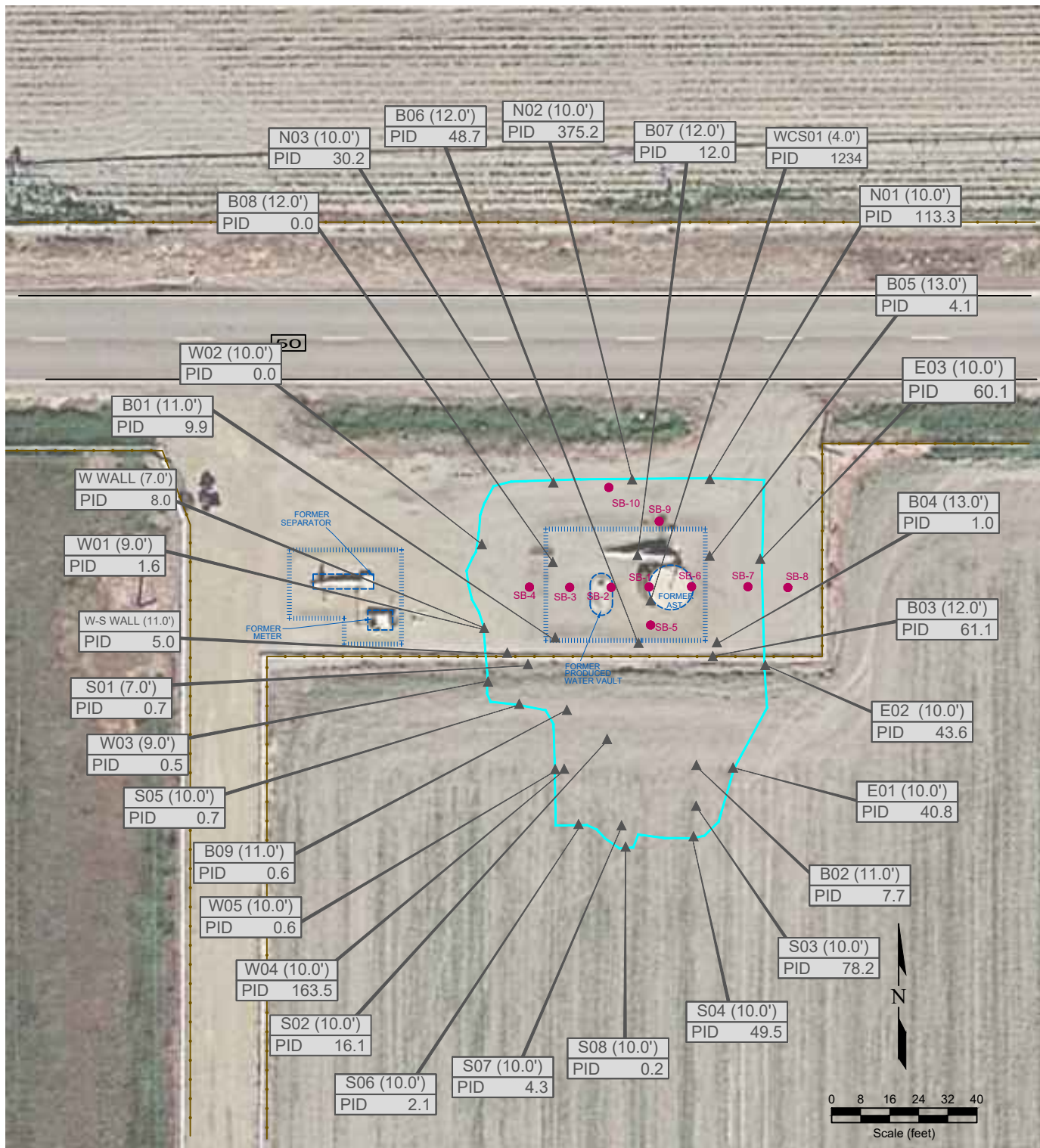
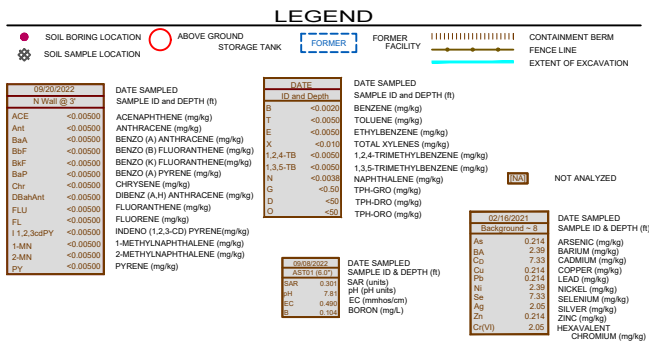


Figure 2
SITE MAP


Noble Energy, Inc. ~ Branch 1-3
 NENE Sec. 3, T4N, R64W, 6th PM
 Weld County, Colorado
 40.348412°, -104.529767°

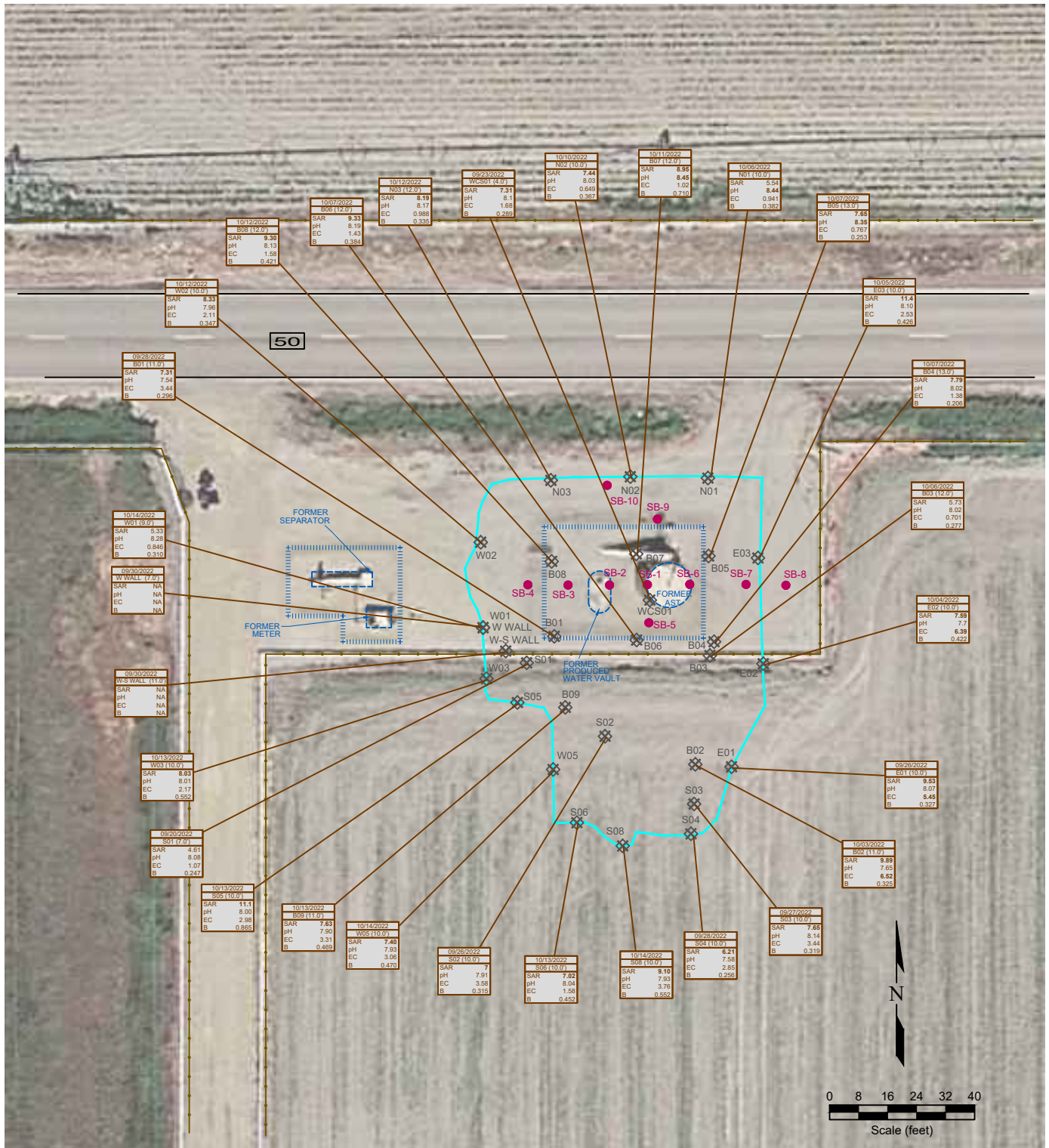
Project No. C022-066	API # 05-123-12513	Facility # 323068
Date 12/12/22	Remediation # 21830	Filename 22066Q1





Noble Energy, Inc. ~ Branch 1-3
NENE Sec. 3, T4N, R64W, 6th PM
Weld County, Colorado
40.348412°, -104.529767°

Project No. C022-066	API # 05-123-12513	Facility # 323068	
Date 12/12/22	Remediation # 21830	Filename 22066Q1	



LEGEND

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT BERM
- FENCE LINE
- EXTENT OF EXCAVATION

DATE SAMPLED	SAMPLE ID AND DEPTH (ft)
09/20/2022	N Wall @ 3'
ACE	<0.0050
Ant	<0.0050
BaA	<0.0050
BaF	<0.0050
BaP	<0.0050
Chv	<0.0050
DBaAnt	<0.0050
FLU	<0.0050
FL	<0.0050
11,2,3-oDPY	<0.0050
1-MN	<0.0050
2-MN	<0.0050
py	<0.0050

DATE	SAMPLE ID AND DEPTH (ft)
09/20/2022	N Wall @ 3'
ACE	<0.0050
Ant	<0.0050
BaA	<0.0050
BaF	<0.0050
BaP	<0.0050
Chv	<0.0050
DBaAnt	<0.0050
FLU	<0.0050
FL	<0.0050
11,2,3-oDPY	<0.0050
1-MN	<0.0050
2-MN	<0.0050
py	<0.0050

DATE	SAMPLE ID AND DEPTH (ft)
09/20/2022	N Wall @ 3'
ACE	<0.0050
Ant	<0.0050
BaA	<0.0050
BaF	<0.0050
BaP	<0.0050
Chv	<0.0050
DBaAnt	<0.0050
FLU	<0.0050
FL	<0.0050
11,2,3-oDPY	<0.0050
1-MN	<0.0050
2-MN	<0.0050
py	<0.0050

DATE	SAMPLE ID AND DEPTH (ft)
09/20/2022	N Wall @ 3'
ACE	<0.0050
Ant	<0.0050
BaA	<0.0050
BaF	<0.0050
BaP	<0.0050
Chv	<0.0050
DBaAnt	<0.0050
FLU	<0.0050
FL	<0.0050
11,2,3-oDPY	<0.0050
1-MN	<0.0050
2-MN	<0.0050
py	<0.0050

DATE	SAMPLE ID AND DEPTH (ft)
09/20/2022	N Wall @ 3'
ACE	<0.0050
Ant	<0.0050
BaA	<0.0050
BaF	<0.0050
BaP	<0.0050
Chv	<0.0050
DBaAnt	<0.0050
FLU	<0.0050
FL	<0.0050
11,2,3-oDPY	<0.0050
1-MN	<0.0050
2-MN	<0.0050
py	<0.0050

DATE	SAMPLE ID AND DEPTH (ft)
09/20/2022	N Wall @ 3'
ACE	<0.0050
Ant	<0.0050
BaA	<0.0050
BaF	<0.0050
BaP	<0.0050
Chv	<0.0050
DBaAnt	<0.0050
FLU	<0.0050
FL	<0.0050
11,2,3-oDPY	<0.0050
1-MN	<0.0050
2-MN	<0.0050
py	<0.0050

DATE	SAMPLE ID AND DEPTH (ft)
09/20/2022	N Wall @ 3'
ACE	<0.0050
Ant	<0.0050
BaA	<0.0050
BaF	<0.0050
BaP	<0.0050
Chv	<0.0050
DBaAnt	<0.0050
FLU	<0.0050
FL	<0.0050
11,2,3-oDPY	<0.0050
1-MN	<0.0050
2-MN	<0.0050
py	<0.0050

DATE	SAMPLE ID AND DEPTH (ft)
09/20/2022	N Wall @ 3'
ACE	<0.0050
Ant	<0.0050
BaA	<0.0050
BaF	<0.0050
BaP	<0.0050
Chv	<0.0050
DBaAnt	<0.0050
FLU	<0.0050
FL	<0.0050
11,2,3-oDPY	<0.0050
1-MN	<0.0050
2-MN	<0.0050
py	<0.0050

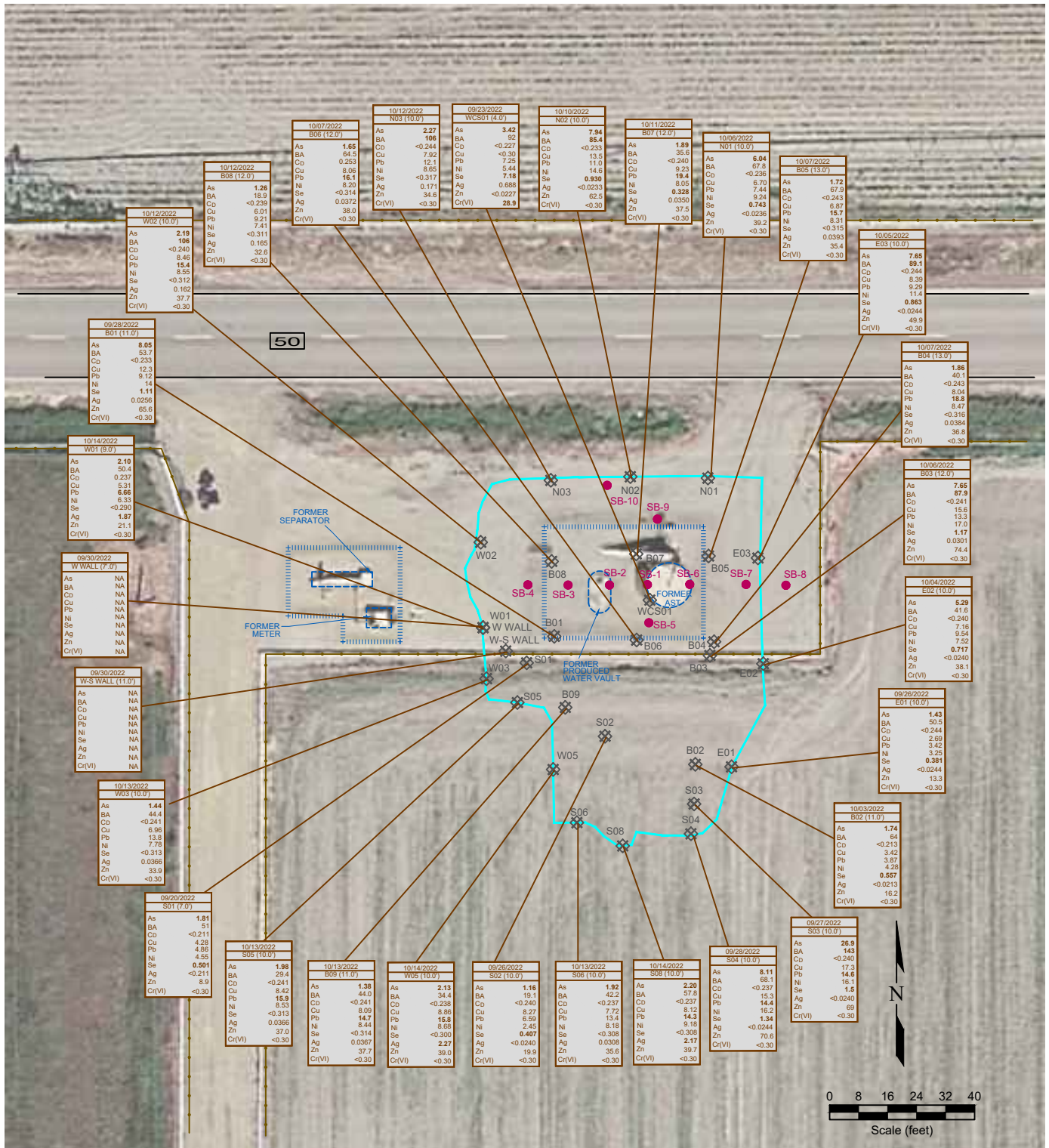
DATE	SAMPLE ID AND DEPTH (ft)
09/20/2022	N Wall @ 3'
ACE	<0.0050
Ant	<0.0050
BaA	<0.0050
BaF	<0.0050
BaP	<0.0050
Chv	<0.0050
DBaAnt	<0.0050
FLU	<0.0050
FL	<0.0050
11,2,3-oDPY	<0.0050
1-MN	<0.0050
2-MN	<0.0050
py	<0.0050

Figure 5

INORGANIC SOIL CHEMISTRY MAP

Noble Energy, Inc. ~ Branch 1-3
NENE Sec. 3, T4N, R64W, 6th PM
Weld County, Colorado
40.348412°, -104.529767°

Project No. C022-066	API # 05-123-12513	Facility # 323068	
Date 12/12/22	Remediation # 21830	Filename 22066Q1	



LEGEND		DATE SAMPLED		DATE SAMPLED	
●	SOIL BORING LOCATION	○	ABOVE GROUND STORAGE TANK	FORMER FACILITY	CONTAINMENT BERM
✱	SOIL SAMPLE LOCATION	FORMER	FORMER FACILITY	—	FENCE LINE
				—	EXTENT OF EXCAVATION

DATE SAMPLED	DATE SAMPLED	DATE SAMPLED	DATE SAMPLED
09/20/2022	10/13/2022	10/14/2022	09/26/2022
N Wall @ 3'	S05 (10.0')	W05 (10.0')	S02 (10.0')
ACE <0.0050	As 1.81	As 1.38	As 1.16
Ant <0.0050	BA 29.4	BA 34.4	BA 15.1
BaA <0.0050	Co <0.211	Co <0.238	Co <0.240
BaF <0.0050	Cu 4.28	Cu 8.96	Cu 8.27
BaP <0.0050	Pb 4.86	Pb 15.9	Pb 6.59
Chv <0.0050	Ni 4.55	Ni 8.53	Ni 15.4
DBaAnt <0.0050	Se 0.501	Se <0.313	Se 2.45
FLU <0.0050	Ag <0.211	Ag 0.0366	Ag <0.308
FL <0.0050	Zn 8.9	Zn 37.0	Zn 35.6
FL 11.2.3uPPY <0.0050	Cr(VI) <0.30	Cr(VI) <0.30	Cr(VI) <0.30
1-MN <0.0050			
2-MN <0.0050			
py <0.0050			

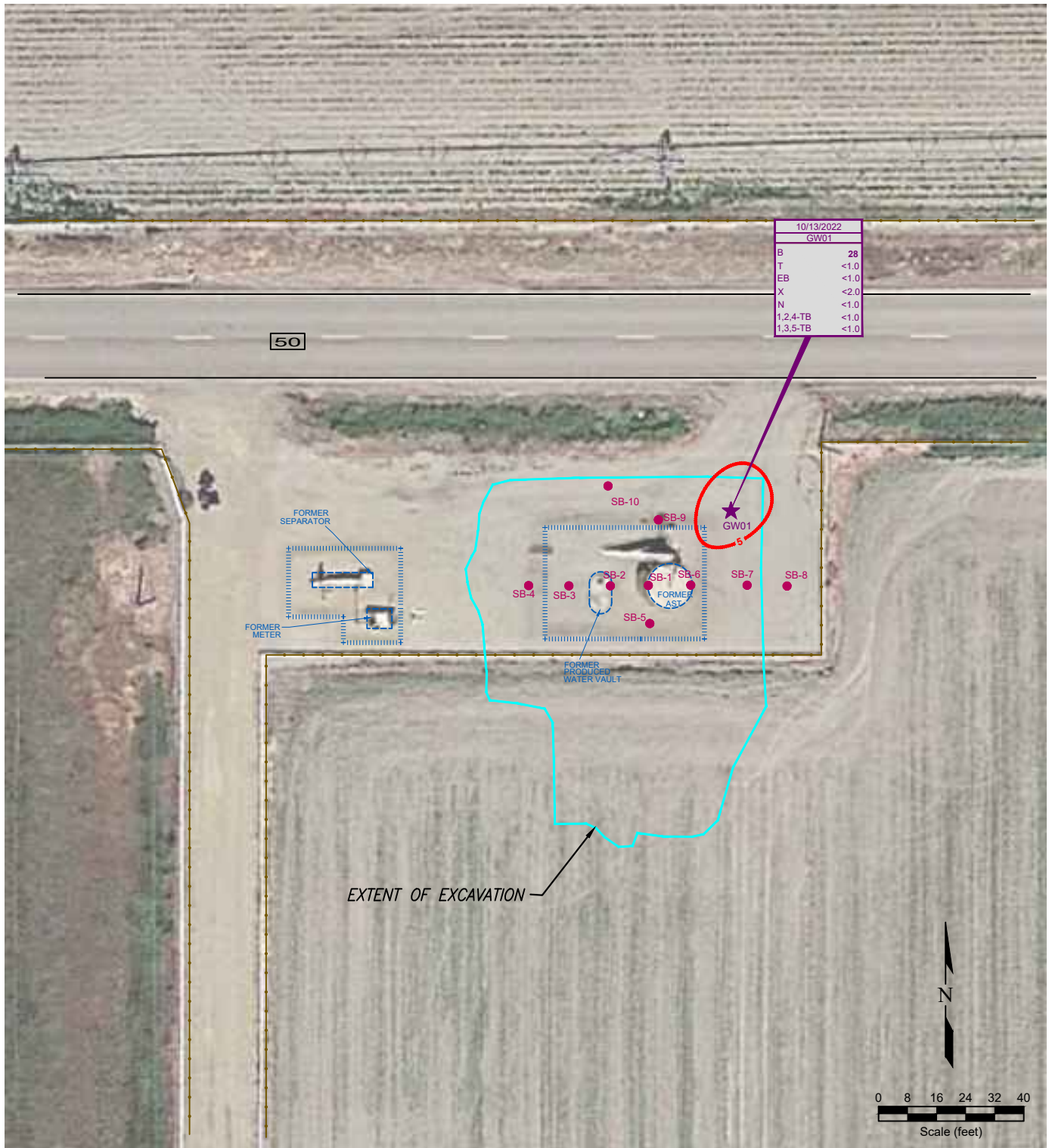
DATE SAMPLED	DATE SAMPLED	DATE SAMPLED	DATE SAMPLED
09/20/2022	10/13/2022	10/14/2022	09/26/2022
AST01 (6.0')	S05 (10.0')	W05 (10.0')	S02 (10.0')
SR 0.301	As 1.98	As 2.13	As 8.11
SR 7.81	BA 29.4	BA 34.4	BA 15.1
EC 0.480	Co <0.211	Co <0.238	Co <0.240
SR 0.504	Cu 4.28	Cu 8.96	Cu 8.27
	Pb 4.86	Pb 15.9	Pb 6.59
	Ni 4.55	Ni 8.53	Ni 15.4
	Se 0.501	Se <0.313	Se 2.45
	Ag <0.211	Ag 0.0366	Ag <0.308
	Zn 8.9	Zn 37.0	Zn 35.6
	Cr(VI) <0.30	Cr(VI) <0.30	Cr(VI) <0.30

DATE SAMPLED	DATE SAMPLED	DATE SAMPLED	DATE SAMPLED
09/20/2022	10/13/2022	10/14/2022	09/26/2022
AST01 (6.0')	S05 (10.0')	W05 (10.0')	S02 (10.0')
SR 0.301	As 1.98	As 2.13	As 8.11
SR 7.81	BA 29.4	BA 34.4	BA 15.1
EC 0.480	Co <0.211	Co <0.238	Co <0.240
SR 0.504	Cu 4.28	Cu 8.96	Cu 8.27
	Pb 4.86	Pb 15.9	Pb 6.59
	Ni 4.55	Ni 8.53	Ni 15.4
	Se 0.501	Se <0.313	Se 2.45
	Ag <0.211	Ag 0.0366	Ag <0.308
	Zn 8.9	Zn 37.0	Zn 35.6
	Cr(VI) <0.30	Cr(VI) <0.30	Cr(VI) <0.30

Figure 6
METALS IN SOIL CHEMISTRY MAP

Noble Energy, Inc. ~ Branch 1-3
 NENE Sec. 3, T4N, R64W, 6th PM
 Weld County, Colorado
 40.348412°, -104.529767°

Project No. C022-066	API # 05-123-12513	Facility # 323068	
Date 12/12/22	Remediation # 21830	Filename 22066Q1	



LEGEND

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER
- FORMER FACILITY
- CONTAINMENT BERM
- FENCE LINE
- EXTENT OF EXCAVATION

10/13/2022 GW01	DATE SAMPLED
B	28
T	<1.0
EB	<1.0
X	<2.0
N	<1.0
1,2,4-TB	<1.0
1,3,5-TB	<1.0



BENZENE ISOCONCENTRATION (ug/L)
Dashed where inferred

Figure 7

GROUNDWATER CHEMISTRY MAP

Noble Energy, Inc. ~ Branch 1-3
NENE Sec. 3, T4N, R64W, 6th PM
Weld County, Colorado
40.348412°, -104.529767°

Project No. C022-066	API # 05-123-12513	Facility # 323068
Date 12/01/22	Remediation # 21830	Filename 22066Q1



APPENDIX A

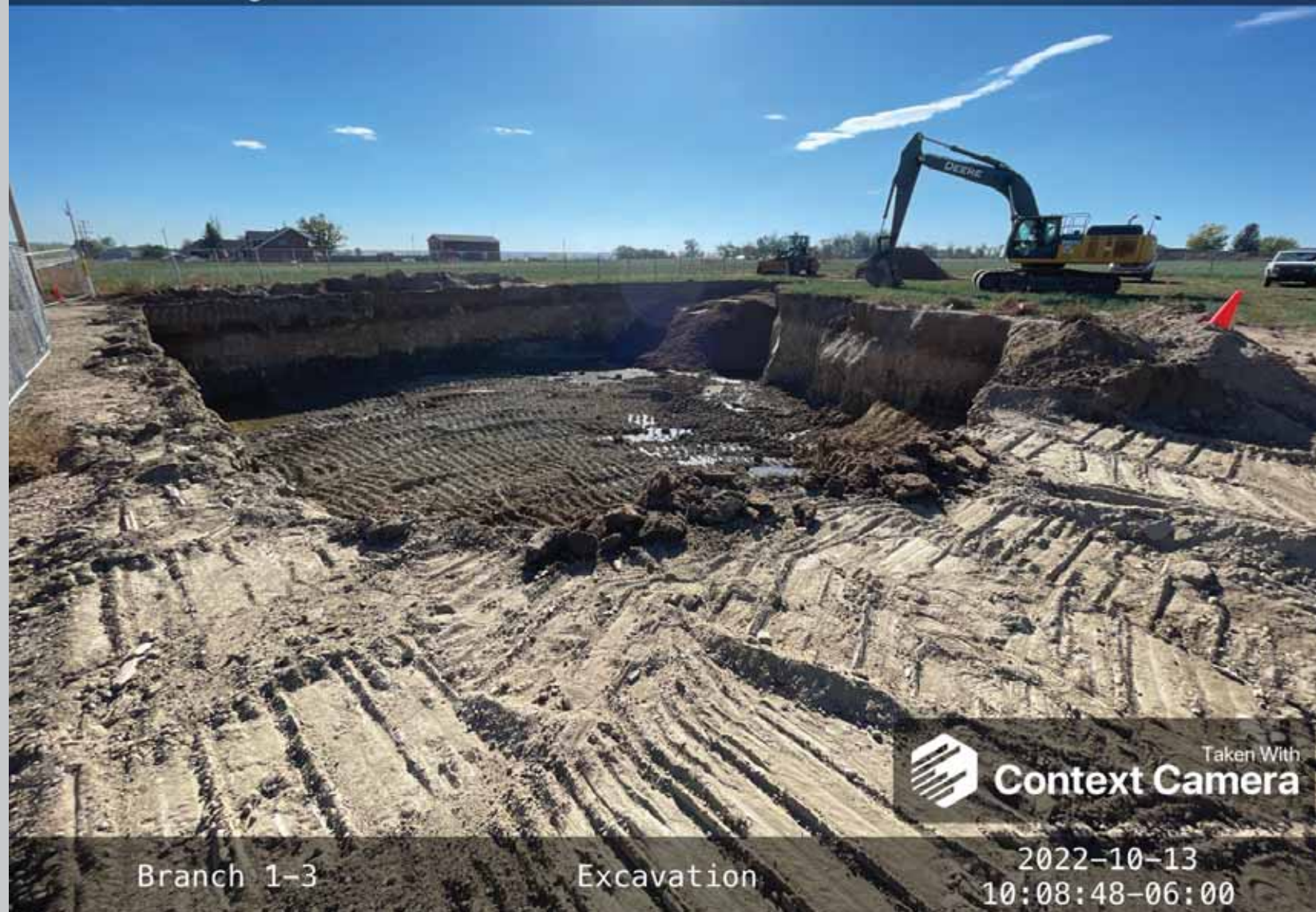
PHOTO LOG

Photo Log

DIRECTION
134 deg(T)

40.34853°N
104.52993°W

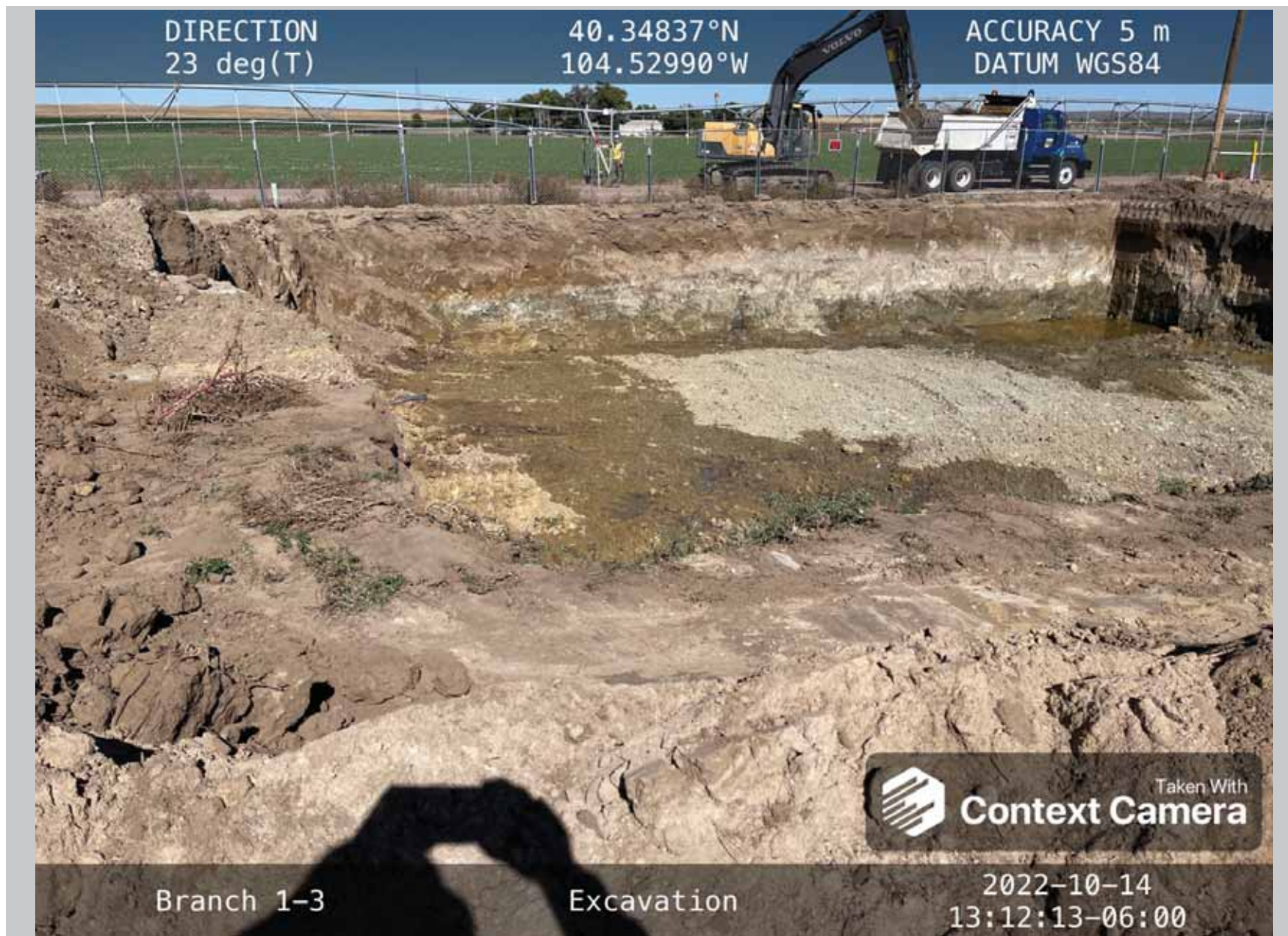
ACCURACY 5 m
DATUM WGS84



Description:

#1A - Branch 1-3 - Excavation Overview - Facing SE

Photo Log



Description:

#1B - Branch 1-3 - Northern Sidewall of Excavation - Facing N

Photo Log



Description:

#1C - Branch 1-3 - Northeast Corner of Excavation - GW01 Sample Location

Photo Log

DIRECTION
234 deg(T)

40.34850°N
104.52959°W

ACCURACY 5 m
DATUM WGS84



Taken With
Context Camera

Branch 1-3

Excavation

2022-10-14
13:13:18-06:00

Description:

#1D - Branch 1-3 - Southern Sidewall of Excavation - Facing SW

Photo Log



Description:

#1E - Branch 1-3 - Southern Sidewall of Excavation - Facing S - S04@10.0'

Photo Log

DIRECTION
127 deg(T)

40.34856°N
104.52995°W

ACCURACY 4 m
DATUM WGS84



Taken With
Context Camera

Branch 1-3

Excavation

2022-10-14
09:09:13-06:00

Description:

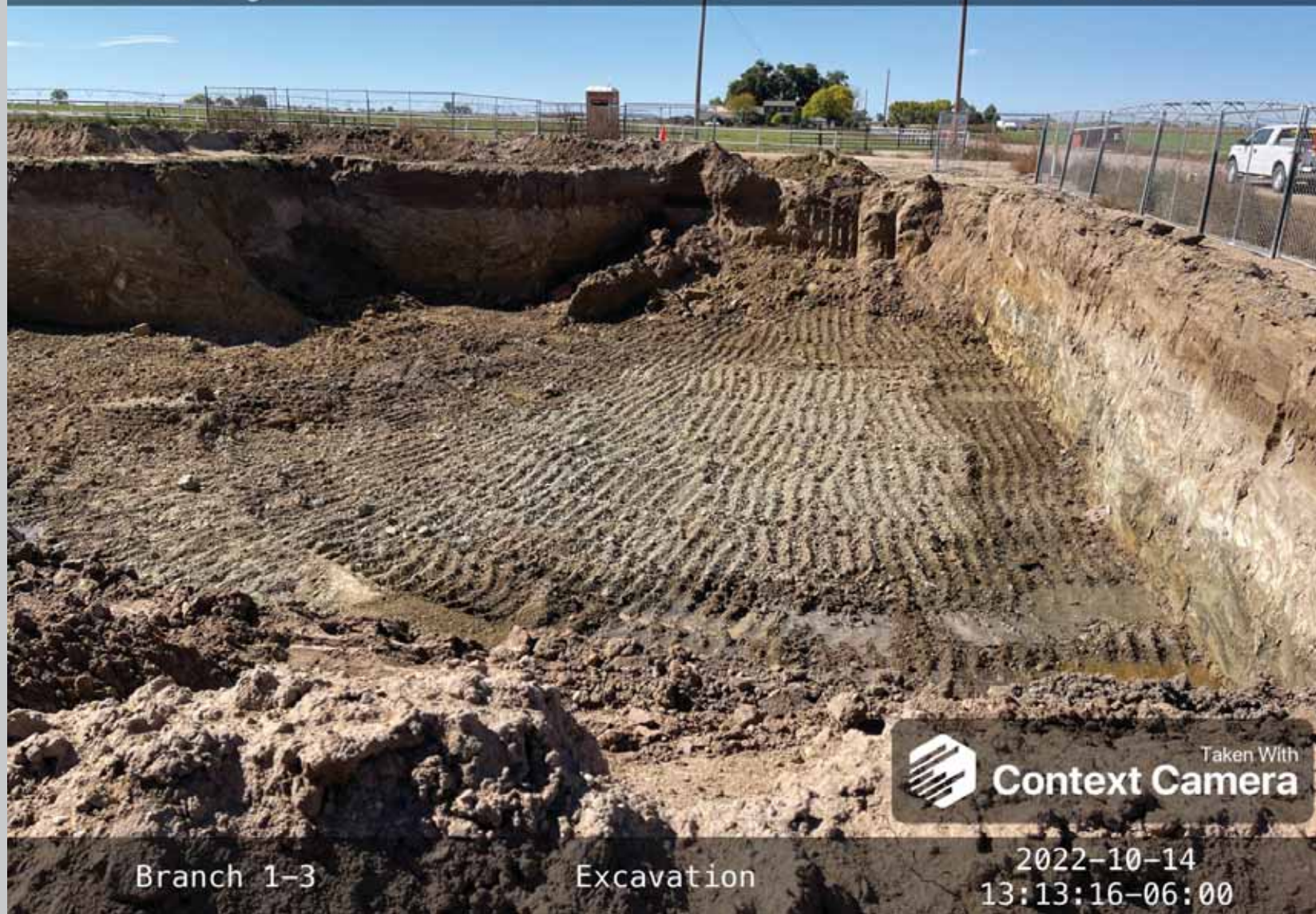
#1F - Branch 1-3 - Eastern Sidewall of Excavation- Facing SE

Photo Log

DIRECTION
259 deg(T)

40.34850°N
104.52959°W

ACCURACY 5 m
DATUM WGS84



Taken With
Context Camera

Branch 1-3

Excavation

2022-10-14
13:13:16-06:00

Description:

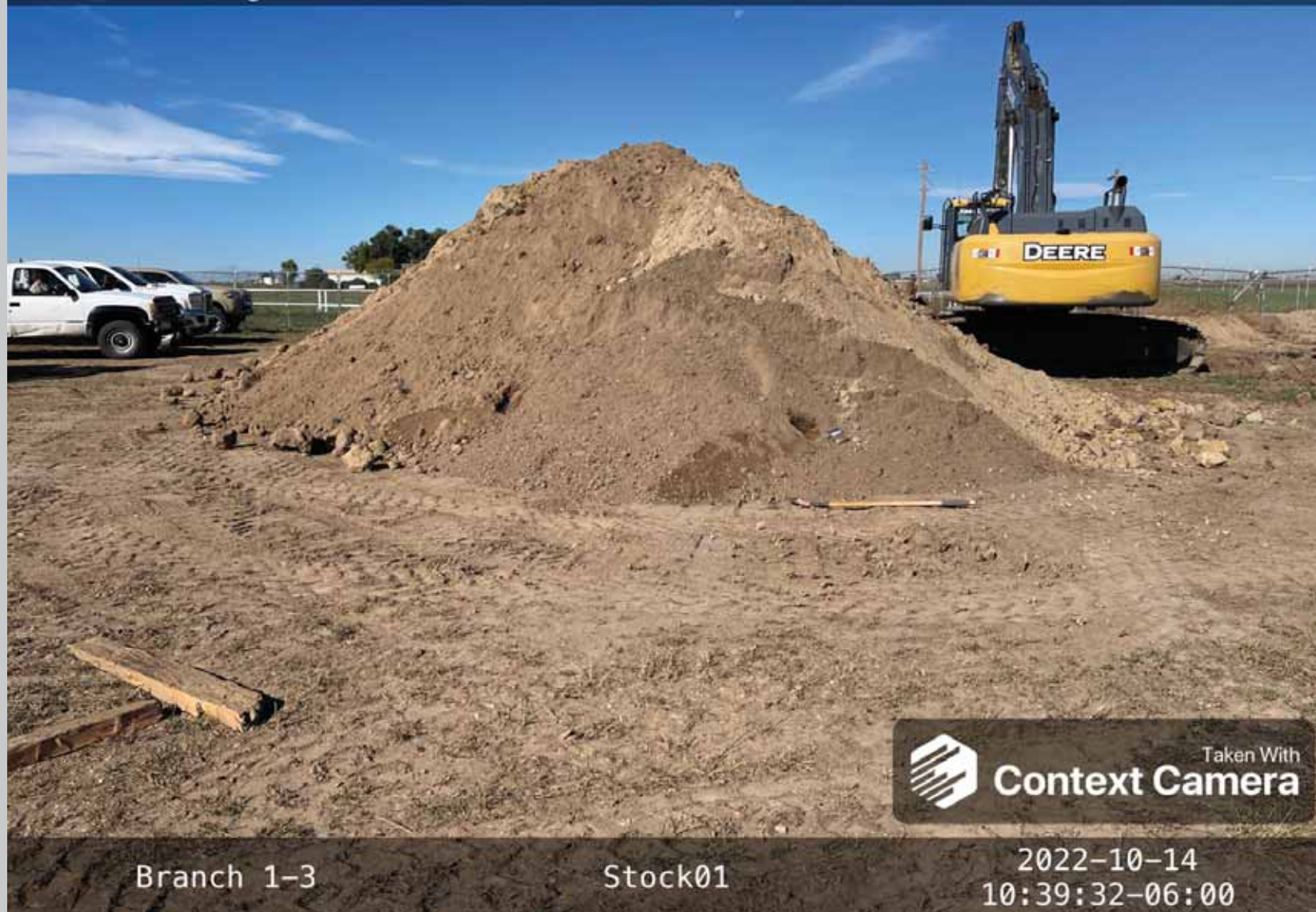
#1G - Western Sidewall of Excavation - Facing W

Photo Log

DIRECTION
286 deg(T)

40.34814°N
104.52962°W

ACCURACY 5 m
DATUM WGS84



Taken With
Context Camera

Branch 1-3

Stock01

2022-10-14
10:39:32-06:00

Description:

#1H - Branch 1-3 - Topsoil Stockpile from Excavation - Composite Sample Collected

APPENDIX B

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 26, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2209387

Enclosed are the results of analyses for samples received by Summit Scientific on 09/20/22 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01@7.0'	2209387-01	Soil	09/20/22 00:00	09/20/22 15:30

Summit Scientific

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

2209387

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Fremont EnvProject Manager: Paul Henchan

Address:

E-Mail: Ethanb@Fremontenv.com Paulh@Fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

Phone:

Project Name: Branch 1-3Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBS (915)	GR ₂ , DR ₂ , OR ₂	PAHs (915)	EC ₅ PH ₁ SAR Baron	Metals (915)			
1	Sol @ 7.0'	09/20/22		3			X			X				X	X	X	X	X	X		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>09/20/22 1530</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9.20.22 1530</u>	Turn Around Time (Check)	Notes: <u>B:11 to Noble</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
Temperature Upon Receipt: <u>25.7</u>	Corrected Temperature <u>—</u>	HNO ₃ lot # <u>—</u>	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>—</u>	IR gun #: <u>2</u>				

S₂

Sample Receipt Checklist

S2 Work Order# 2209387

Client: Fremont Client Project ID: Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 25.7 Thermometer # 2

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

Additional Comments (if any):

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

9.20.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

S01@7.0'
2209387-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10515	09/20/22	09/20/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10516	09/20/22	09/20/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

S01@7.0'
2209387-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10522	09/21/22	09/22/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		88.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.247	0.0100	mg/L	1	BF10528	09/21/22	09/23/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/20/22 00:00**

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



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

S01@7.0'
2209387-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.81	0.211	mg/kg dry	1	BF10525	09/21/22	09/22/22	EPA 6020B
Barium	51.0	0.423	"	"	"	"	"	"
Cadmium	ND	0.211	"	"	"	"	"	"
Copper	4.28	0.423	"	"	"	"	"	"
Lead	4.86	0.211	"	"	"	"	"	"
Nickel	4.55	0.423	"	"	"	"	"	"
Selenium	0.501	0.275	"	"	"	"	"	"
Silver	ND	0.0211	"	"	"	"	"	"
Zinc	18.9	0.423	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10586	09/22/22	09/22/22	EPA 7196A	

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

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.2	0.0529	mg/L dry	1	BF10549	09/21/22	09/23/22	EPA 6020B	
Magnesium	28.8	0.0529	"	"	"	"	"	"	
Sodium	164	0.0529	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.61	0.00100	units	1	BF10631	09/23/22	09/23/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

S01@7.0'
2209387-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BF10531	09/21/22	09/26/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.07	0.0100	mmhos/cm	1	BF10594	09/21/22	09/23/22	EPA 120.1	

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

Date Sampled: **09/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BF10595	09/21/22	09/23/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BF10515 - EPA 5030 Soil MS

Blank (BF10515-BLK1)

Prepared: 09/20/22 Analyzed: 09/21/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0361		"	0.0400		90.3	50-150			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0432		"	0.0400		108	50-150			

LCS (BF10515-BS1)

Prepared: 09/20/22 Analyzed: 09/21/22

Benzene	0.162	0.0020	mg/kg	0.125		130	70-130			
Toluene	0.151	0.0050	"	0.125		121	70-130			
Ethylbenzene	0.147	0.0050	"	0.125		117	70-130			
m,p-Xylene	0.283	0.010	"	0.250		113	70-130			
o-Xylene	0.126	0.0050	"	0.125		101	70-130			
1,2,4-Trimethylbenzene	0.141	0.0050	"	0.125		113	70-130			
1,3,5-Trimethylbenzene	0.146	0.0050	"	0.125		117	70-130			
Naphthalene	0.0967	0.0038	"	0.125		77.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.8	50-150			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0426		"	0.0400		106	50-150			

Matrix Spike (BF10515-MS1)

Source: 2209384-01

Prepared: 09/20/22 Analyzed: 09/21/22

Benzene	0.151	0.0020	mg/kg	0.125	ND	121	70-130			
Toluene	0.152	0.0050	"	0.125	ND	121	70-130			
Ethylbenzene	0.150	0.0050	"	0.125	ND	120	70-130			
m,p-Xylene	0.289	0.010	"	0.250	ND	116	70-130			
o-Xylene	0.128	0.0050	"	0.125	ND	102	70-130			
1,2,4-Trimethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130			
1,3,5-Trimethylbenzene	0.149	0.0050	"	0.125	ND	119	70-130			
Naphthalene	0.104	0.0038	"	0.125	ND	83.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0366		"	0.0400		91.4	50-150			
Surrogate: Toluene-d8	0.0425		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

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

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

Batch BFI0515 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0515-MSD1)		Source: 2209384-01			Prepared: 09/20/22 Analyzed: 09/21/22					
Benzene	0.160	0.0020	mg/kg	0.125	ND	128	70-130	5.48	30	
Toluene	0.152	0.0050	"	0.125	ND	122	70-130	0.158	30	
Ethylbenzene	0.148	0.0050	"	0.125	ND	119	70-130	0.785	30	
m,p-Xylene	0.286	0.010	"	0.250	ND	114	70-130	1.23	30	
o-Xylene	0.126	0.0050	"	0.125	ND	101	70-130	1.06	30	
1,2,4-Trimethylbenzene	0.142	0.0050	"	0.125	ND	113	70-130	1.41	30	
1,3,5-Trimethylbenzene	0.147	0.0050	"	0.125	ND	117	70-130	1.36	30	
Naphthalene	0.103	0.0038	"	0.125	ND	82.5	70-130	0.522	30	
Surrogate: 1,2-Dichloroethane-d4		0.0379	"	0.0400		94.6	50-150			
Surrogate: Toluene-d8		0.0431	"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene		0.0415	"	0.0400		104	50-150			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0516 - EPA 3550A

Blank (BFI0516-BLK1)

Prepared: 09/20/22 Analyzed: 09/21/22

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

LCS (BFI0516-BS1)

Prepared: 09/20/22 Analyzed: 09/21/22

C10-C28 (DRO)	629	50	mg/kg	500	126	70-130
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Matrix Spike (BFI0516-MS1)

Source: 2209384-01

Prepared: 09/20/22 Analyzed: 09/21/22

C10-C28 (DRO)	563	50	mg/kg	500	14.8	110	70-130
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Matrix Spike Dup (BFI0516-MSD1)

Source: 2209384-01

Prepared: 09/20/22 Analyzed: 09/21/22

C10-C28 (DRO)	566	50	mg/kg	500	14.8	110	70-130	0.574	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0522 - EPA 5030 Soil MS

Blank (BFI0522-BLK1)

Prepared & Analyzed: 09/21/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0195		"	0.0333		58.5	40-150			
Surrogate: Fluoranthene-d10	0.0164		"	0.0333		49.1	40-150			

LCS (BFI0522-BS1)

Prepared & Analyzed: 09/21/22

Acenaphthene	0.0390	0.00500	mg/kg	0.0333	117	31-137
Anthracene	0.0356	0.00500	"	0.0333	107	30-120
Benzo (a) anthracene	0.0340	0.00500	"	0.0333	102	30-120
Benzo (a) pyrene	0.0398	0.00500	"	0.0333	120	30-120
Benzo (b) fluoranthene	0.0399	0.00500	"	0.0333	120	30-120
Benzo (k) fluoranthene	0.0358	0.00500	"	0.0333	108	30-120
Chrysene	0.0283	0.00500	"	0.0333	84.8	30-120
Dibenz (a,h) anthracene	0.0324	0.00500	"	0.0333	97.1	30-120
Fluoranthene	0.0383	0.00500	"	0.0333	115	30-120
Fluorene	0.0337	0.00500	"	0.0333	101	30-120
Indeno (1,2,3-cd) pyrene	0.0347	0.00500	"	0.0333	104	30-120
Pyrene	0.0335	0.00500	"	0.0333	101	35-142
1-Methylnaphthalene	0.0359	0.00500	"	0.0333	108	35-142
2-Methylnaphthalene	0.0349	0.00500	"	0.0333	105	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0350		"	0.0333	105	40-150
Surrogate: Fluoranthene-d10	0.0340		"	0.0333	102	40-150

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0522 - EPA 5030 Soil MS

Matrix Spike (BFI0522-MS1)

Source: 2209338-01

Prepared & Analyzed: 09/21/22

Acenaphthene	0.0310	0.00500	mg/kg	0.0333	ND	93.1	31-137		
Anthracene	0.0271	0.00500	"	0.0333	ND	81.2	30-120		
Benzo (a) anthracene	0.0253	0.00500	"	0.0333	ND	75.9	30-120		
Benzo (a) pyrene	0.0307	0.00500	"	0.0333	ND	92.0	30-120		
Benzo (b) fluoranthene	0.0328	0.00500	"	0.0333	ND	98.3	30-120		
Benzo (k) fluoranthene	0.0331	0.00500	"	0.0333	ND	99.2	30-120		
Chrysene	0.0219	0.00500	"	0.0333	ND	65.8	30-120		
Dibenz (a,h) anthracene	0.0255	0.00500	"	0.0333	ND	76.4	30-120		
Fluoranthene	0.0292	0.00500	"	0.0333	ND	87.5	30-120		
Fluorene	0.0250	0.00500	"	0.0333	ND	74.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0263	0.00500	"	0.0333	ND	78.9	30-120		
Pyrene	0.0259	0.00500	"	0.0333	ND	77.7	35-142		
1-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.5	15-130		
2-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.8	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0220		"	0.0333		66.0	40-150		
Surrogate: Fluoranthene-d10	0.0302		"	0.0333		90.5	40-150		

Matrix Spike Dup (BFI0522-MSD1)

Source: 2209338-01

Prepared: 09/21/22 Analyzed: 09/22/22

Acenaphthene	0.0279	0.00500	mg/kg	0.0333	ND	83.7	31-137	10.7	30
Anthracene	0.0251	0.00500	"	0.0333	ND	75.2	30-120	7.72	30
Benzo (a) anthracene	0.0236	0.00500	"	0.0333	ND	70.8	30-120	6.88	30
Benzo (a) pyrene	0.0279	0.00500	"	0.0333	ND	83.6	30-120	9.61	30
Benzo (b) fluoranthene	0.0303	0.00500	"	0.0333	ND	90.8	30-120	7.92	30
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333	ND	90.3	30-120	9.45	30
Chrysene	0.0196	0.00500	"	0.0333	ND	58.7	30-120	11.4	30
Dibenz (a,h) anthracene	0.0230	0.00500	"	0.0333	ND	69.0	30-120	10.2	30
Fluoranthene	0.0266	0.00500	"	0.0333	ND	79.8	30-120	9.11	30
Fluorene	0.0226	0.00500	"	0.0333	ND	67.7	30-120	10.1	30
Indeno (1,2,3-cd) pyrene	0.0243	0.00500	"	0.0333	ND	72.8	30-120	8.14	30
Pyrene	0.0234	0.00500	"	0.0333	ND	70.2	35-142	10.2	30
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.1	15-130	4.95	50
2-Methylnaphthalene	0.0221	0.00500	"	0.0333	ND	66.2	15-130	3.80	50
Surrogate: 2-Methylnaphthalene-d10	0.0220		"	0.0333		65.9	40-150		
Surrogate: Fluoranthene-d10	0.0279		"	0.0333		83.8	40-150		

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

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

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

Batch BFI0528 - EPA 3050B

Blank (BFI0528-BLK1)

Prepared: 09/21/22 Analyzed: 09/23/22

Boron ND 0.0100 mg/L

LCS (BFI0528-BS1)

Prepared: 09/21/22 Analyzed: 09/23/22

Boron 5.44 0.0100 mg/L 5.00 109 80-120

Duplicate (BFI0528-DUP1)

Source: 2209301-03

Prepared: 09/21/22 Analyzed: 09/23/22

Boron 0.150 0.0100 mg/L 0.156 4.01 20

Matrix Spike (BFI0528-MS1)

Source: 2209301-03

Prepared: 09/21/22 Analyzed: 09/23/22

Boron 5.41 0.0100 mg/L 5.00 0.156 105 75-125

Matrix Spike Dup (BFI0528-MSD1)

Source: 2209301-03

Prepared: 09/21/22 Analyzed: 09/23/22

Boron 5.70 0.0100 mg/L 5.00 0.156 111 75-125 5.20 25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0525 - EPA 3050B

Blank (BFI0525-BLK1)

Prepared & Analyzed: 09/21/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFI0525-BS1)

Prepared & Analyzed: 09/21/22

Arsenic	42.8	0.200	mg/kg wet	40.0	107	80-120
Barium	41.4	0.400	"	40.0	104	80-120
Cadmium	2.06	0.200	"	2.00	103	80-120
Copper	42.0	0.400	"	40.0	105	80-120
Lead	20.2	0.200	"	20.0	101	80-120
Nickel	42.1	0.400	"	40.0	105	80-120
Selenium	3.99	0.260	"	4.00	99.8	80-120
Silver	2.04	0.0200	"	2.00	102	80-120
Zinc	43.3	0.400	"	40.0	108	80-120

Duplicate (BFI0525-DUP1)

Source: 2209237-01

Prepared & Analyzed: 09/21/22

Arsenic	4.49	0.213	mg/kg dry	4.37	2.66	20
Barium	145	0.426	"	143	1.87	20
Cadmium	0.172	0.213	"	0.168	2.56	20
Copper	5.73	0.426	"	5.55	3.10	20
Lead	8.53	0.213	"	8.24	3.38	20
Nickel	6.83	0.426	"	6.60	3.48	20
Selenium	0.694	0.277	"	0.572	19.2	20
Silver	0.0327	0.0213	"	0.0311	4.96	20
Zinc	19.8	0.426	"	19.4	2.24	20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0525 - EPA 3050B

Matrix Spike (BFI0525-MS1)

Source: 2209237-01

Prepared: 09/21/22 Analyzed: 09/22/22

Arsenic	48.2	0.213	mg/kg dry	42.6	4.37	103	75-125
Barium	180	0.426	"	42.6	143	88.9	75-125
Cadmium	2.32	0.213	"	2.13	0.168	101	75-125
Copper	47.9	0.426	"	42.6	5.55	99.5	75-125
Lead	25.4	0.213	"	21.3	8.24	80.8	75-125
Nickel	50.2	0.426	"	42.6	6.60	102	75-125
Selenium	4.18	0.277	"	4.26	0.572	84.7	75-125
Silver	2.11	0.0213	"	2.13	0.0311	97.7	75-125
Zinc	64.8	0.426	"	42.6	19.4	107	75-125

Matrix Spike Dup (BFI0525-MSD1)

Source: 2209237-01

Prepared: 09/21/22 Analyzed: 09/22/22

Arsenic	50.4	0.213	mg/kg dry	42.6	4.37	108	75-125	4.46	25
Barium	187	0.426	"	42.6	143	105	75-125	3.73	25
Cadmium	2.42	0.213	"	2.13	0.168	106	75-125	4.26	25
Copper	50.4	0.426	"	42.6	5.55	105	75-125	4.90	25
Lead	26.3	0.213	"	21.3	8.24	84.6	75-125	3.15	25
Nickel	52.3	0.426	"	42.6	6.60	107	75-125	4.04	25
Selenium	4.38	0.277	"	4.26	0.572	89.4	75-125	4.69	25
Silver	2.21	0.0213	"	2.13	0.0311	103	75-125	4.72	25
Zinc	67.4	0.426	"	42.6	19.4	113	75-125	3.92	25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFI0586 - 3060A Mod

Blank (BFI0586-BLK1)

Prepared & Analyzed: 09/22/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFI0586-BS1)

Prepared & Analyzed: 09/22/22

Chromium, Hexavalent 23.1 0.30 mg/kg wet 25.0 92.4 80-120

Duplicate (BFI0586-DUP1)

Source: 2209279-21

Prepared & Analyzed: 09/22/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFI0586-MS1)

Source: 2209279-21

Prepared & Analyzed: 09/22/22

Chromium, Hexavalent 30.4 0.30 mg/kg dry 29.4 ND 103 75-125

Matrix Spike Dup (BFI0586-MSD1)

Source: 2209279-21

Prepared & Analyzed: 09/22/22

Chromium, Hexavalent 32.7 0.30 mg/kg dry 29.4 ND 111 75-125 7.27 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

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

Summit Scientific

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

Batch BFI0549 - General Preparation

Blank (BFI0549-BLK1)

Prepared: 09/21/22 Analyzed: 09/23/22

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

LCS (BFI0549-BS1)

Prepared: 09/21/22 Analyzed: 09/23/22

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.62	0.0500	"	5.00	112	70-130
Sodium	5.35	0.0500	"	5.00	107	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

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

Summit Scientific

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

Batch BFI0531 - General Preparation

Duplicate (BFI0531-DUP1)		Source: 2209340-01		Prepared: 09/21/22 Analyzed: 09/26/22	
% Solids	96.7		%	96.4	0.331 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

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

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

Batch BFI0594 - General Preparation

Blank (BFI0594-BLK1)

Prepared: 09/21/22 Analyzed: 09/23/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0594-BS1)

Prepared: 09/21/22 Analyzed: 09/23/22

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BFI0594-DUP1)

Source: 2209281-01

Prepared: 09/21/22 Analyzed: 09/23/22

Specific Conductance (EC) 0.402 0.0100 mmhos/cm 0.399 0.924 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

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

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

Batch BFI0595 - General Preparation

LCS (BFI0595-BS1)

Prepared: 09/21/22 Analyzed: 09/23/22

pH	9.00	pH Units	9.18	98.0	95-105
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Duplicate (BFI0595-DUP1)

Source: 2209281-01

Prepared: 09/21/22 Analyzed: 09/23/22

pH	8.33	pH Units	8.13	2.43	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/26/22 13:58

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 04, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2209474

Enclosed are the results of analyses for samples received by Summit Scientific on 09/23/22 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WCS01@4.0'	2209474-01	Soil	09/23/22 00:00	09/23/22 15:30

Summit Scientific

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

Summit Scientific

S₂

2209474

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

Page 1 of 1

Client: Fremont Env Project Manager: Paul Henehan
Address: E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com
City/State/Zip: jeffg@fremontenv.com
Phone: Project Name: Branch 1-3
Sampler Name: JG Project Number:

Preservative		Matrix		Analysis Requested					Special Instructions
	HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	
ID	Sample Description	Date Sampled	Time Sampled	# of containers					
1	WC50104.0'	09/23/22		3		X			
2									
3									
4									
5									
6									
7									
8									
9									
10									

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
<i>[Signature]</i>	09/23/22 1530	<i>[Signature]</i>	9.23.22 1530	Same Day	X	72 hours
				24 hours		Standard
				48 hours		

Temperature Upon Receipt:	IR gun correction:	Corrected Temperature	IR gun #:	Sample Integrity:	Samples Intact:	Yes	No
23.7			2			X	

S₂

Sample Receipt Checklist

S2 Work Order# 2209474Client: Freemant Bnv Client Project ID: Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 23.7 Thermometer # 2

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

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

AT
Custodian Printed Name

9.23.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

WCS01@4.0'
2209474-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	3.4	0.20	mg/kg	100	BF10638	09/24/22	09/24/22	EPA 8260B	
Toluene	4.0	0.50	"	"	"	"	"	"	
Ethylbenzene	8.9	0.50	"	"	"	"	"	"	
Xylenes (total)	84	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	83	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	26	0.50	"	"	"	"	"	"	
Naphthalene	4.9	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3100	50	"	"	"	"	"	"	

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		253 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	6300	50	mg/kg	1	BF10639	09/24/22	09/24/22	EPA 8015M	
C28-C36 (ORO)	580	50	"	"	"	"	"	"	

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		139 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

WCS01@4.0'
2209474-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BF10640	09/26/22	09/27/22	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	0.141	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	0.490	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	1.56	0.0500	"	"	"	"	"	"	
2-Methylnaphthalene	6.82	1.00	"	200	"	"	09/27/22	"	

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		%	40-150		"	"	09/27/22	"	S-01
Surrogate: Fluoranthene-d10		106 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.289	0.0100	mg/L	1	BF10658	09/26/22	09/28/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/23/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

WCS01@4.0'
2209474-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.42	0.227	mg/kg dry	1	BF10650	09/26/22	09/27/22	EPA 6020B
Barium	92.0	0.454	"	"	"	"	"	"
Cadmium	ND	0.227	"	"	"	"	"	"
Copper	7.25	0.454	"	"	"	"	"	"
Lead	5.44	0.227	"	"	"	"	"	"
Nickel	7.18	0.454	"	"	"	"	"	"
Selenium	0.688	0.295	"	"	"	"	"	"
Silver	ND	0.0227	"	"	"	"	"	"
Zinc	28.9	0.454	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0016	10/03/22	10/03/22	EPA 7196A	

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

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.6	0.0567	mg/L dry	1	BF10700	09/27/22	09/30/22	EPA 6020B	
Magnesium	16.2	0.0567	"	"	"	"	"	"	
Sodium	266	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.31	0.00100	units	1	BF10816	09/30/22	09/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

WCS01@4.0'
2209474-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BF10659	09/26/22	09/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.68	0.0100	mmhos/cm	1	BF10703	09/27/22	09/30/22	EPA 120.1	

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

Date Sampled: **09/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BF10702	09/27/22	09/30/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFI0638 - EPA 5030 Soil MS

Blank (BFI0638-BLK1)

Prepared & Analyzed: 09/24/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0450		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	50-150			

LCS (BFI0638-BS1)

Prepared & Analyzed: 09/24/22

Benzene	0.0580	0.0020	mg/kg	0.0750		77.4	70-130			
Toluene	0.0617	0.0050	"	0.0750		82.3	70-130			
Ethylbenzene	0.0610	0.0050	"	0.0750		81.4	70-130			
m,p-Xylene	0.120	0.010	"	0.150		80.0	70-130			
o-Xylene	0.0620	0.0050	"	0.0750		82.7	70-130			
1,2,4-Trimethylbenzene	0.0578	0.0050	"	0.0750		77.0	70-130			
1,3,5-Trimethylbenzene	0.0590	0.0050	"	0.0750		78.6	70-130			
Naphthalene	0.0786	0.0038	"	0.0750		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0321		"	0.0400		80.2	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0361		"	0.0400		90.3	50-150			

Matrix Spike (BFI0638-MS1)

Source: 2209474-01

Prepared & Analyzed: 09/24/22

Benzene	1.33	0.0020	mg/kg	0.0750	3.36	NR	70-130		E, QM-07
Toluene	1.07	0.0050	"	0.0750	4.03	NR	70-130		E, QM-07
Ethylbenzene	2.03	0.0050	"	0.0750	8.90	NR	70-130		E, QM-07
m,p-Xylene	2.63	0.010	"	0.150	70.3	NR	70-130		E, QM-07
o-Xylene	1.19	0.0050	"	0.0750	14.0	NR	70-130		E, QM-07
1,2,4-Trimethylbenzene	1.65	0.0050	"	0.0750	82.9	NR	70-130		E, QM-07
1,3,5-Trimethylbenzene	1.02	0.0050	"	0.0750	26.1	NR	70-130		E, QM-07
Naphthalene	0.111	0.0038	"	0.0750	4.92	NR	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.0734		"	0.0400		184	50-150		S-02
Surrogate: Toluene-d8	0.164		"	0.0400		409	50-150		S-02
Surrogate: 4-Bromofluorobenzene	0.662		"	0.0400		NR	50-150		S-02

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFI0638 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0638-MSD1)	Source: 2209474-01			Prepared & Analyzed: 09/24/22						
Benzene	1.60	0.0020	mg/kg	0.0750	3.36	NR	70-130	18.7	30	E, QM-07
Toluene	1.21	0.0050	"	0.0750	4.03	NR	70-130	12.6	30	E, QM-07
Ethylbenzene	2.10	0.0050	"	0.0750	8.90	NR	70-130	3.40	30	E, QM-07
m,p-Xylene	3.16	0.010	"	0.150	70.3	NR	70-130	18.5	30	E, QM-07
o-Xylene	1.29	0.0050	"	0.0750	14.0	NR	70-130	8.25	30	E, QM-07
1,2,4-Trimethylbenzene	2.93	0.0050	"	0.0750	82.9	NR	70-130	56.1	30	E, QM-07
1,3,5-Trimethylbenzene	1.19	0.0050	"	0.0750	26.1	NR	70-130	15.8	30	E, QM-07
Naphthalene	0.0986	0.0038	"	0.0750	4.92	NR	70-130	11.6	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0825		"	0.0400		206	50-150			S-02
Surrogate: Toluene-d8	0.258		"	0.0400		645	50-150			S-02
Surrogate: 4-Bromofluorobenzene	0.797		"	0.0400		NR	50-150			S-02

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0639 - EPA 3550A

Blank (BFI0639-BLK1)

Prepared & Analyzed: 09/24/22

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

LCS (BFI0639-BS1)

Prepared & Analyzed: 09/24/22

C10-C28 (DRO)	607	50	mg/kg	500	121	70-130
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Matrix Spike (BFI0639-MS1)

Source: 2209474-01

Prepared & Analyzed: 09/24/22

C10-C28 (DRO)	6640	50	mg/kg	500	6290	70.6	70-130
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Matrix Spike Dup (BFI0639-MSD1)

Source: 2209474-01

Prepared & Analyzed: 09/24/22

C10-C28 (DRO)	6730	50	mg/kg	500	6290	88.9	70-130	1.37	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0640 - EPA 5030 Soil MS

Blank (BFI0640-BLK1)

Prepared & Analyzed: 09/26/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0193		"	0.0333		58.0	40-150			
Surrogate: Fluoranthene-d10	0.0333		"	0.0333		99.8	40-150			

LCS (BFI0640-BS1)

Prepared & Analyzed: 09/26/22

Acenaphthene	0.0310	0.00500	mg/kg	0.0333		92.9	31-137			
Anthracene	0.0280	0.00500	"	0.0333		83.9	30-120			
Benzo (a) anthracene	0.0238	0.00500	"	0.0333		71.5	30-120			
Benzo (a) pyrene	0.0250	0.00500	"	0.0333		75.1	30-120			
Benzo (b) fluoranthene	0.0209	0.00500	"	0.0333		62.6	30-120			
Benzo (k) fluoranthene	0.0315	0.00500	"	0.0333		94.4	30-120			
Chrysene	0.0304	0.00500	"	0.0333		91.1	30-120			
Dibenz (a,h) anthracene	0.0141	0.00500	"	0.0333		42.3	30-120			
Fluoranthene	0.0310	0.00500	"	0.0333		93.1	30-120			
Fluorene	0.0328	0.00500	"	0.0333		98.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0161	0.00500	"	0.0333		48.3	30-120			
Pyrene	0.0343	0.00500	"	0.0333		103	35-142			
1-Methylnaphthalene	0.0238	0.00500	"	0.0333		71.3	35-142			
2-Methylnaphthalene	0.0300	0.00500	"	0.0333		89.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0258		"	0.0333		77.3	40-150			
Surrogate: Fluoranthene-d10	0.0328		"	0.0333		98.4	40-150			

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0640 - EPA 5030 Soil MS

Matrix Spike (BFI0640-MS1)

Source: 2209440-01

Prepared & Analyzed: 09/26/22

Acenaphthene	0.0209	0.00500	mg/kg	0.0333	ND	62.7	31-137		
Anthracene	0.0219	0.00500	"	0.0333	ND	65.7	30-120		
Benzo (a) anthracene	0.0226	0.00500	"	0.0333	ND	67.7	30-120		
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.5	30-120		
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.1	30-120		
Benzo (k) fluoranthene	0.0226	0.00500	"	0.0333	ND	67.9	30-120		
Chrysene	0.0219	0.00500	"	0.0333	ND	65.6	30-120		
Dibenz (a,h) anthracene	0.0144	0.00500	"	0.0333	ND	43.2	30-120		
Fluoranthene	0.0248	0.00500	"	0.0333	ND	74.5	30-120		
Fluorene	0.0223	0.00500	"	0.0333	ND	66.8	30-120		
Indeno (1,2,3-cd) pyrene	0.0172	0.00500	"	0.0333	ND	51.6	30-120		
Pyrene	0.0259	0.00500	"	0.0333	ND	77.7	35-142		
1-Methylnaphthalene	0.0201	0.00500	"	0.0333	ND	60.4	15-130		
2-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0208		"	0.0333		62.4	40-150		
Surrogate: Fluoranthene-d10	0.0263		"	0.0333		79.0	40-150		

Matrix Spike Dup (BFI0640-MSD1)

Source: 2209440-01

Prepared & Analyzed: 09/26/22

Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.1	31-137	13.0	30
Anthracene	0.0185	0.00500	"	0.0333	ND	55.5	30-120	16.9	30
Benzo (a) anthracene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	15.7	30
Benzo (a) pyrene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	23.2	30
Benzo (b) fluoranthene	0.0143	0.00500	"	0.0333	ND	42.9	30-120	19.3	30
Benzo (k) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.6	30-120	23.5	30
Chrysene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	24.7	30
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333	ND	40.9	30-120	5.47	30
Fluoranthene	0.0198	0.00500	"	0.0333	ND	59.5	30-120	22.3	30
Fluorene	0.0183	0.00500	"	0.0333	ND	55.0	30-120	19.4	30
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.2	30-120	22.5	30
Pyrene	0.0213	0.00500	"	0.0333	ND	64.0	35-142	19.4	30
1-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.7	15-130	13.7	50
2-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	66.0	15-130	6.74	50
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.3	40-150		
Surrogate: Fluoranthene-d10	0.0212		"	0.0333		63.5	40-150		

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

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

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

Batch BFI0658 - EPA 3050B

Blank (BFI0658-BLK1)

Prepared: 09/26/22 Analyzed: 09/28/22

Boron ND 0.0100 mg/L

LCS (BFI0658-BS1)

Prepared: 09/26/22 Analyzed: 09/28/22

Boron 5.50 0.0100 mg/L 5.00 110 80-120

Duplicate (BFI0658-DUP1)

Source: 2209329-21

Prepared: 09/26/22 Analyzed: 09/28/22

Boron 0.235 0.0100 mg/L 0.231 1.50 20

Matrix Spike (BFI0658-MS1)

Source: 2209329-21

Prepared: 09/26/22 Analyzed: 09/28/22

Boron 5.59 0.0100 mg/L 5.00 0.231 107 75-125

Matrix Spike Dup (BFI0658-MSD1)

Source: 2209329-21

Prepared: 09/26/22 Analyzed: 09/28/22

Boron 5.56 0.0100 mg/L 5.00 0.231 107 75-125 0.462 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFI0650 - EPA 3050B

Blank (BFI0650-BLK1)

Prepared: 09/26/22 Analyzed: 09/27/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFI0650-BS1)

Prepared: 09/26/22 Analyzed: 09/27/22

Arsenic	47.6	0.200	mg/kg wet	40.0	119	80-120
Barium	44.4	0.400	"	40.0	111	80-120
Cadmium	2.04	0.200	"	2.00	102	80-120
Copper	46.9	0.400	"	40.0	117	80-120
Lead	23.3	0.200	"	20.0	117	80-120
Nickel	46.9	0.400	"	40.0	117	80-120
Selenium	4.45	0.260	"	4.00	111	80-120
Silver	2.39	0.0200	"	2.00	120	80-120
Zinc	47.9	0.400	"	40.0	120	80-120

Duplicate (BFI0650-DUP1)

Source: 2209184-02

Prepared: 09/26/22 Analyzed: 09/27/22

Arsenic	0.763	0.252	mg/kg dry	0.751	1.63	20
Barium	12.3	0.504	"	13.0	5.28	20
Cadmium	0.0300	0.252	"	0.0303	1.18	20
Copper	2.02	0.504	"	2.05	1.87	20
Lead	2.23	0.252	"	2.32	4.19	20
Nickel	2.19	0.504	"	2.19	0.287	20
Selenium	5.42	0.328	"	5.70	5.06	20
Silver	0.00732	0.0252	"	0.00830	12.5	20
Zinc	9.31	0.504	"	9.57	2.79	20

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFI0650 - EPA 3050B

Matrix Spike (BFI0650-MS1)

Source: 2209184-02

Prepared: 09/26/22 Analyzed: 09/27/22

Arsenic	53.6	0.252	mg/kg dry	50.4	0.751	105	75-125
Barium	67.1	0.504	"	50.4	13.0	107	75-125
Cadmium	2.95	0.252	"	2.52	0.0303	116	75-125
Copper	53.5	0.504	"	50.4	2.05	102	75-125
Lead	29.0	0.252	"	25.2	2.32	106	75-125
Nickel	54.0	0.504	"	50.4	2.19	103	75-125
Selenium	10.4	0.328	"	5.04	5.70	92.7	75-125
Silver	2.83	0.0252	"	2.52	0.00830	112	75-125
Zinc	63.3	0.504	"	50.4	9.57	107	75-125

Matrix Spike Dup (BFI0650-MSD1)

Source: 2209184-02

Prepared: 09/26/22 Analyzed: 09/27/22

Arsenic	56.8	0.252	mg/kg dry	50.4	0.751	111	75-125	5.78	25
Barium	66.4	0.504	"	50.4	13.0	106	75-125	1.05	25
Cadmium	2.88	0.252	"	2.52	0.0303	113	75-125	2.48	25
Copper	56.1	0.504	"	50.4	2.05	107	75-125	4.68	25
Lead	28.4	0.252	"	25.2	2.32	103	75-125	2.11	25
Nickel	56.4	0.504	"	50.4	2.19	107	75-125	4.45	25
Selenium	9.68	0.328	"	5.04	5.70	78.9	75-125	6.95	25
Silver	2.76	0.0252	"	2.52	0.00830	109	75-125	2.57	25
Zinc	65.9	0.504	"	50.4	9.57	112	75-125	3.99	25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0016 - 3060A Mod

Blank (BFJ0016-BLK1)

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0016-BS1)

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent 24.8 0.30 mg/kg wet 25.0 99.2 80-120

Duplicate (BFJ0016-DUP1)

Source: 2209336-01

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0016-MS1)

Source: 2209336-01

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent 26.6 0.30 mg/kg dry 27.3 ND 97.4 75-125

Matrix Spike Dup (BFJ0016-MSD1)

Source: 2209336-01

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent 31.5 0.30 mg/kg dry 27.3 ND 115 75-125 16.9 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

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

Summit Scientific

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

Batch BFI0700 - General Preparation

Blank (BFI0700-BLK1)

Prepared: 09/27/22 Analyzed: 09/30/22

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

LCS (BFI0700-BS1)

Prepared: 09/27/22 Analyzed: 09/30/22

Calcium	6.13	0.0500	mg/L wet	5.00	123	70-130
Magnesium	6.34	0.0500	"	5.00	127	70-130
Sodium	5.88	0.0500	"	5.00	118	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

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

Summit Scientific

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

Batch BFI0659 - General Preparation

Duplicate (BFI0659-DUP1)

Source: 2209331-01

Prepared: 09/26/22 Analyzed: 09/27/22

% Solids	88.2	%		90.4		2.48	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

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

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

Batch BFI0703 - General Preparation

Blank (BFI0703-BLK1)

Prepared: 09/27/22 Analyzed: 09/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0703-BS1)

Prepared: 09/27/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BFI0703-DUP1)

Source: 2209333-19

Prepared: 09/27/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.239 0.0100 mmhos/cm 0.230 3.97 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

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

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

Batch BFI0702 - General Preparation

LCS (BFI0702-BS1)

Prepared: 09/27/22 Analyzed: 09/30/22

pH	9.06	pH Units	9.18	98.7	95-105
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Duplicate (BFI0702-DUP1)

Source: 2209333-19

Prepared: 09/27/22 Analyzed: 09/30/22

pH	7.83	pH Units	7.80	0.384	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 15:20

Notes and Definitions

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.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 06, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2209501

Enclosed are the results of analyses for samples received by Summit Scientific on 09/26/22 16:03. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E01@10.0'	2209501-01	Soil	09/26/22 00:00	09/26/22 16:03
S02@10.0'	2209501-02	Soil	09/26/22 00:00	09/26/22 16:03

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

2209501

S₂

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

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address: E-Mail: Paulh@Fremontenv.com Ethonb@fremontenv.com

City/State/Zip: Jeff@fremontenv.com

Phone: Project Name: Branch 1-3

Sampler Name: J6 Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	GRD, PRO, ORO	PAHs (915)	EC, PH, SAR	Metals (915)			
1	E01@10.0'	09/26/22		3			X			X				X	X	X	X	X	X		
2	S02@10.0'	09/26/22		3			X			X				X	X	X	X	X	X		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>09/26/22 1603</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/26/22 1603</u>	Turn Around Time (Check)	Notes: <u>Bill to Noble</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/26/22 1603</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/26/22 1603</u>	Same Day <input checked="" type="checkbox"/> 72 hours <u> </u>	
				24 hours <u> </u> Standard <u> </u>	
Temperature Upon Receipt: <u>21.2</u>	Corrected Temperature <u> </u>	HNO3 lot # <u> </u>	Sample Integrity: <u>Yes</u> No		
IR gun correction: <u> </u>	IR gun #: <u>2</u>				

S₂

Sample Receipt Checklist

S2 Work Order# 2209501Client: Noble / Fremont Client Project ID: Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 21.2Thermometer # 2

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

Additional Comments (if any):

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

Custodian Printed Name

9/26/22

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

E01@10.0'
2209501-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10678	09/26/22	09/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.4	0.50	"	"	"	"	"	"	

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		153 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	140	50	mg/kg	1	BF10679	"	09/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		139 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

E01@10.0'
2209501-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10690	09/27/22	09/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.327	0.0100	mg/L	1	BF10758	09/29/22	10/04/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/26/22 00:00**

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



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

E01@10.0'
2209501-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.43	0.244	mg/kg dry	1	BF10685	09/26/22	10/01/22	EPA 6020B
Barium	50.5	0.487	"	"	"	"	"	"
Cadmium	ND	0.244	"	"	"	"	"	"
Copper	2.69	0.487	"	"	"	"	"	"
Lead	3.42	0.244	"	"	"	"	"	"
Nickel	3.25	0.487	"	"	"	"	"	"
Selenium	0.381	0.317	"	"	"	"	"	"
Silver	ND	0.0244	"	"	"	"	"	"
Zinc	13.3	0.487	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0093	10/05/22	10/06/22	EPA 7196A	

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

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	74.6	0.0609	mg/L dry	1	BF10770	09/29/22	10/06/22	EPA 6020B	
Magnesium	173	0.0609	"	"	"	"	"	"	
Sodium	644	0.0609	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.35	0.00100	units	1	BFJ0137	10/06/22	10/06/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

E01@10.0'
2209501-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.1		%	1	BF10683	09/26/22	09/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.45	0.0100	mmhos/cm	1	BF10774	09/29/22	09/30/22	EPA 120.1	

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

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BF10773	09/29/22	09/30/22	EPA 9045D	

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

S02@10.0'
2209501-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10678	09/26/22	09/26/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		94.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10679	"	09/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		124 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

S02@10.0'
2209501-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10690	09/27/22	09/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0181	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.213	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.334	0.0500	"	10	"	"	09/28/22	"	

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		41.5 %	40-150		"	"	09/28/22	"	
Surrogate: Fluoranthene-d10		67.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.315	0.0100	mg/L	1	BF10758	09/29/22	10/04/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/26/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

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S02@10.0'
2209501-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.16	0.240	mg/kg dry	1	BF10685	09/26/22	10/01/22	EPA 6020B
Barium	19.1	0.480	"	"	"	"	"	"
Cadmium	ND	0.240	"	"	"	"	"	"
Copper	8.27	0.480	"	"	"	"	"	"
Lead	6.59	0.240	"	"	"	"	"	"
Nickel	2.45	0.480	"	"	"	"	"	"
Selenium	0.407	0.312	"	"	"	"	"	"
Silver	ND	0.0240	"	"	"	"	"	"
Zinc	19.9	0.480	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0093	10/05/22	10/06/22	EPA 7196A	

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

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.4	0.0600	mg/L dry	1	BF10770	09/29/22	10/06/22	EPA 6020B	
Magnesium	119	0.0600	"	"	"	"	"	"	
Sodium	407	0.0600	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.00	0.00100	units	1	BFJ0137	10/06/22	10/06/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

S02@10.0'
2209501-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.4		%	1	BF10683	09/26/22	09/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.58	0.0100	mmhos/cm	1	BF10774	09/29/22	09/30/22	EPA 120.1	

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

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BF10773	09/29/22	09/30/22	EPA 9045D	

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BFI0678 - EPA 5030 Soil MS

Blank (BFI0678-BLK1)

Prepared: 09/26/22 Analyzed: 09/27/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		97.9	50-150			

LCS (BFI0678-BS1)

Prepared: 09/26/22 Analyzed: 09/27/22

Benzene	0.0570	0.0020	mg/kg	0.0750		76.0	70-130			
Toluene	0.0615	0.0050	"	0.0750		82.0	70-130			
Ethylbenzene	0.0590	0.0050	"	0.0750		78.7	70-130			
m,p-Xylene	0.116	0.010	"	0.150		77.4	70-130			
o-Xylene	0.0604	0.0050	"	0.0750		80.6	70-130			
1,2,4-Trimethylbenzene	0.0566	0.0050	"	0.0750		75.4	70-130			
1,3,5-Trimethylbenzene	0.0568	0.0050	"	0.0750		75.7	70-130			
Naphthalene	0.0583	0.0038	"	0.0750		77.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0338		"	0.0400		84.4	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0366		"	0.0400		91.4	50-150			

Matrix Spike (BFI0678-MS1)

Source: 2209501-01

Prepared: 09/26/22 Analyzed: 09/27/22

Benzene	0.0597	0.0020	mg/kg	0.0750	ND	79.6	70-130			
Toluene	0.0626	0.0050	"	0.0750	ND	83.5	70-130			
Ethylbenzene	0.0548	0.0050	"	0.0750	ND	73.0	70-130			
m,p-Xylene	0.108	0.010	"	0.150	ND	71.8	70-130			
o-Xylene	0.0567	0.0050	"	0.0750	ND	75.6	70-130			
1,2,4-Trimethylbenzene	0.0542	0.0050	"	0.0750	ND	72.3	70-130			
1,3,5-Trimethylbenzene	0.0539	0.0050	"	0.0750	ND	71.9	70-130			
Naphthalene	0.0554	0.0038	"	0.0750	ND	73.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0400		86.1	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0368		"	0.0400		91.9	50-150			

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Project: Noble - Branch 1-3
Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

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

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

Batch BFI0678 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0678-MSD1)		Source: 2209501-01			Prepared: 09/26/22 Analyzed: 09/27/22					
Benzene	0.0602	0.0020	mg/kg	0.0750	ND	80.2	70-130	0.801	30	
Toluene	0.0632	0.0050	"	0.0750	ND	84.2	70-130	0.811	30	
Ethylbenzene	0.0545	0.0050	"	0.0750	ND	72.7	70-130	0.439	30	
m,p-Xylene	0.108	0.010	"	0.150	ND	71.9	70-130	0.111	30	
o-Xylene	0.0571	0.0050	"	0.0750	ND	76.2	70-130	0.685	30	
1,2,4-Trimethylbenzene	0.0545	0.0050	"	0.0750	ND	72.6	70-130	0.442	30	
1,3,5-Trimethylbenzene	0.0539	0.0050	"	0.0750	ND	71.9	70-130	0.00	30	
Naphthalene	0.0600	0.0038	"	0.0750	ND	80.0	70-130	7.96	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0403		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0418		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.6	50-150			

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PO Box 1289
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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0679 - EPA 3550A

Blank (BFI0679-BLK1)

Prepared: 09/26/22 Analyzed: 09/27/22

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

LCS (BFI0679-BS1)

Prepared: 09/26/22 Analyzed: 09/27/22

C10-C28 (DRO)	621	50	mg/kg	500	124	70-130
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Matrix Spike (BFI0679-MS1)

Source: 2209501-01

Prepared: 09/26/22 Analyzed: 09/27/22

C10-C28 (DRO)	508	50	mg/kg	500	143	72.9	70-130
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Matrix Spike Dup (BFI0679-MSD1)

Source: 2209501-01

Prepared: 09/26/22 Analyzed: 09/27/22

C10-C28 (DRO)	588	50	mg/kg	500	143	88.9	70-130	14.6	20
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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0690 - EPA 5030 Soil MS

Blank (BFI0690-BLK1)

Prepared & Analyzed: 09/27/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0357		"	0.0333		107	40-150			
Surrogate: Fluoranthene-d10	0.0324		"	0.0333		97.1	40-150			

LCS (BFI0690-BS1)

Prepared & Analyzed: 09/27/22

Acenaphthene	0.0316	0.00500	mg/kg	0.0333		94.9	31-137			
Anthracene	0.0331	0.00500	"	0.0333		99.2	30-120			
Benzo (a) anthracene	0.0322	0.00500	"	0.0333		96.5	30-120			
Benzo (a) pyrene	0.0307	0.00500	"	0.0333		92.2	30-120			
Benzo (b) fluoranthene	0.0321	0.00500	"	0.0333		96.4	30-120			
Benzo (k) fluoranthene	0.0319	0.00500	"	0.0333		95.8	30-120			
Chrysene	0.0327	0.00500	"	0.0333		98.0	30-120			
Dibenz (a,h) anthracene	0.0288	0.00500	"	0.0333		86.3	30-120			
Fluoranthene	0.0299	0.00500	"	0.0333		89.8	30-120			
Fluorene	0.0322	0.00500	"	0.0333		96.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0226	0.00500	"	0.0333		67.9	30-120			
Pyrene	0.0261	0.00500	"	0.0333		78.2	35-142			
1-Methylnaphthalene	0.0369	0.00500	"	0.0333		111	35-142			
2-Methylnaphthalene	0.0331	0.00500	"	0.0333		99.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0287		"	0.0333		86.0	40-150			
Surrogate: Fluoranthene-d10	0.0335		"	0.0333		100	40-150			

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BFI0690 - EPA 5030 Soil MS

Matrix Spike (BFI0690-MS1)

Source: 2209452-01

Prepared & Analyzed: 09/27/22

Acenaphthene	0.0235	0.00500	mg/kg	0.0333	ND	70.5	31-137		
Anthracene	0.0231	0.00500	"	0.0333	ND	69.4	30-120		
Benzo (a) anthracene	0.0237	0.00500	"	0.0333	ND	71.1	30-120		
Benzo (a) pyrene	0.0226	0.00500	"	0.0333	ND	67.7	30-120		
Benzo (b) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.3	30-120		
Benzo (k) fluoranthene	0.0237	0.00500	"	0.0333	ND	71.1	30-120		
Chrysene	0.0237	0.00500	"	0.0333	ND	71.2	30-120		
Dibenz (a,h) anthracene	0.0205	0.00500	"	0.0333	ND	61.6	30-120		
Fluoranthene	0.0201	0.00500	"	0.0333	ND	60.3	30-120		
Fluorene	0.0237	0.00500	"	0.0333	ND	71.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	0.0333	ND	49.5	30-120		
Pyrene	0.0167	0.00500	"	0.0333	ND	50.2	35-142		
1-Methylnaphthalene	0.0250	0.00500	"	0.0333	ND	74.9	15-130		
2-Methylnaphthalene	0.0242	0.00500	"	0.0333	ND	72.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0228		"	0.0333		68.3	40-150		
Surrogate: Fluoranthene-d10	0.0231		"	0.0333		69.4	40-150		

Matrix Spike Dup (BFI0690-MSD1)

Source: 2209452-01

Prepared & Analyzed: 09/27/22

Acenaphthene	0.0224	0.00500	mg/kg	0.0333	ND	67.1	31-137	4.94	30
Anthracene	0.0219	0.00500	"	0.0333	ND	65.6	30-120	5.56	30
Benzo (a) anthracene	0.0218	0.00500	"	0.0333	ND	65.3	30-120	8.47	30
Benzo (a) pyrene	0.0205	0.00500	"	0.0333	ND	61.6	30-120	9.47	30
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.3	30-120	12.1	30
Benzo (k) fluoranthene	0.0207	0.00500	"	0.0333	ND	62.0	30-120	13.7	30
Chrysene	0.0220	0.00500	"	0.0333	ND	65.9	30-120	7.64	30
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	13.0	30
Fluoranthene	0.0177	0.00500	"	0.0333	ND	53.1	30-120	12.8	30
Fluorene	0.0222	0.00500	"	0.0333	ND	66.6	30-120	6.34	30
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	10.5	30
Pyrene	0.0144	0.00500	"	0.0333	ND	43.3	35-142	14.8	30
1-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.4	15-130	3.38	50
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.5	15-130	5.93	50
Surrogate: 2-Methylnaphthalene-d10	0.0215		"	0.0333		64.4	40-150		
Surrogate: Fluoranthene-d10	0.0216		"	0.0333		64.9	40-150		

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Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

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

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

Batch BFI0758 - EPA 3050B

Blank (BFI0758-BLK1)

Prepared: 09/29/22 Analyzed: 10/04/22

Boron ND 0.0100 mg/L

LCS (BFI0758-BS1)

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.47 0.0100 mg/L 5.00 109 80-120

Duplicate (BFI0758-DUP1)

Source: 2209323-01

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 0.0962 0.0100 mg/L 0.101 5.26 20

Matrix Spike (BFI0758-MS1)

Source: 2209323-01

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.54 0.0100 mg/L 5.00 0.101 109 75-125

Matrix Spike Dup (BFI0758-MSD1)

Source: 2209323-01

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.53 0.0100 mg/L 5.00 0.101 109 75-125 0.108 25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0685 - EPA 3050B

Blank (BFI0685-BLK1)

Prepared: 09/26/22 Analyzed: 10/01/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFI0685-BS1)

Prepared: 09/26/22 Analyzed: 10/01/22

Arsenic	46.2	0.200	mg/kg wet	40.0	116	80-120
Barium	44.0	0.400	"	40.0	110	80-120
Cadmium	2.18	0.200	"	2.00	109	80-120
Copper	45.5	0.400	"	40.0	114	80-120
Lead	21.3	0.200	"	20.0	107	80-120
Nickel	45.5	0.400	"	40.0	114	80-120
Selenium	4.13	0.260	"	4.00	103	80-120
Silver	2.16	0.0200	"	2.00	108	80-120
Zinc	46.9	0.400	"	40.0	117	80-120

Duplicate (BFI0685-DUP1)

Source: 2209443-01

Prepared: 09/26/22 Analyzed: 10/01/22

Arsenic	2.02	0.228	mg/kg dry	1.85	8.70	20
Barium	72.5	0.455	"	70.3	3.03	20
Cadmium	0.122	0.228	"	0.116	4.78	20
Copper	7.20	0.455	"	6.99	3.03	20
Lead	6.73	0.228	"	6.63	1.58	20
Nickel	8.46	0.455	"	8.20	3.06	20
Selenium	0.710	0.296	"	0.769	7.98	20
Silver	0.0616	0.0228	"	0.0596	3.35	20
Zinc	30.4	0.455	"	29.7	2.43	20

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0685 - EPA 3050B

Matrix Spike (BFI0685-MS1)

Source: 2209443-01

Prepared: 09/26/22 Analyzed: 10/01/22

Arsenic	51.2	0.228	mg/kg dry	45.5	1.85	108	75-125
Barium	117	0.455	"	45.5	70.3	103	75-125
Cadmium	2.52	0.228	"	2.28	0.116	106	75-125
Copper	54.2	0.455	"	45.5	6.99	104	75-125
Lead	26.9	0.228	"	22.8	6.63	89.1	75-125
Nickel	55.8	0.455	"	45.5	8.20	105	75-125
Selenium	5.07	0.296	"	4.55	0.769	94.4	75-125
Silver	2.38	0.0228	"	2.28	0.0596	102	75-125
Zinc	81.9	0.455	"	45.5	29.7	115	75-125

Matrix Spike Dup (BFI0685-MSD1)

Source: 2209443-01

Prepared: 09/26/22 Analyzed: 10/01/22

Arsenic	50.5	0.228	mg/kg dry	45.5	1.85	107	75-125	1.25	25
Barium	117	0.455	"	45.5	70.3	103	75-125	0.235	25
Cadmium	2.51	0.228	"	2.28	0.116	105	75-125	0.375	25
Copper	53.8	0.455	"	45.5	6.99	103	75-125	0.808	25
Lead	27.5	0.228	"	22.8	6.63	91.6	75-125	2.04	25
Nickel	56.1	0.455	"	45.5	8.20	105	75-125	0.419	25
Selenium	4.96	0.296	"	4.55	0.769	92.0	75-125	2.16	25
Silver	2.40	0.0228	"	2.28	0.0596	103	75-125	0.878	25
Zinc	81.6	0.455	"	45.5	29.7	114	75-125	0.370	25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0093 - 3060A Mod

Blank (BFJ0093-BLK1)

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0093-BS1)

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BFJ0093-DUP1)

Source: 2209475-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0093-MS1)

Source: 2209475-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 29.2 0.30 mg/kg dry 28.7 ND 102 75-125

Matrix Spike Dup (BFJ0093-MSD1)

Source: 2209475-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 29.3 0.30 mg/kg dry 28.7 ND 102 75-125 0.589 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

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

Summit Scientific

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

Batch BFI0770 - General Preparation

Blank (BFI0770-BLK1)

Prepared: 09/29/22 Analyzed: 10/06/22

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

LCS (BFI0770-BS1)

Prepared: 09/29/22 Analyzed: 10/06/22

Calcium	5.96	0.0500	mg/L wet	5.00	119	70-130
Magnesium	5.92	0.0500	"	5.00	118	70-130
Sodium	5.39	0.0500	"	5.00	108	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

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

Summit Scientific

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

Batch BFI0683 - General Preparation

Duplicate (BFI0683-DUP1)

Source: 2209132-01

Prepared: 09/26/22 Analyzed: 09/28/22

% Solids	78.8	%		77.3		1.97	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

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

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

Batch BFI0774 - General Preparation

Blank (BFI0774-BLK1)

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0774-BS1)

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BFI0774-DUP1)

Source: 2209471-01

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 1.02 0.0100 mmhos/cm 1.03 0.585 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

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

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

Batch BFI0773 - General Preparation

LCS (BFI0773-BS1)

Prepared: 09/29/22 Analyzed: 09/30/22

pH	9.14	pH Units	9.18	99.6	95-105
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Duplicate (BFI0773-DUP1)

Source: 2209471-01

Prepared: 09/29/22 Analyzed: 09/30/22

pH	7.90	pH Units	7.90	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 15:39

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 06, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2209530

Enclosed are the results of analyses for samples received by Summit Scientific on 09/27/22 15:49. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S03@10.0'	2209530-01	Soil	09/27/22 00:00	09/27/22 15:49

Summit Scientific

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

Summit Scientific

S₂

2209530

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

Jeffg@fremontenv.com

Phone:

Project Name: Branch 1-3

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBS (915)	PAHs (915)	DRO,ORO,6RO	EC,PH,SAR	Baron	Metals (915)			
1	<u>S03@10.0'</u>	<u>09/27/22</u>		<u>3</u>			<u>X</u>			<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: <u>[Signature]</u>	Date/Time: <u>09/27/22 1549</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9.27.22 1549</u>	Turn Around Time (Check)	Notes: <u>Bill to Noble</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
Temperature Upon Receipt: <u>19.5</u>	Corrected Temperature <u>—</u>	HNO3 lot # <u>—</u>	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>—</u>	IR gun #: <u>2</u>				

S₂

2209530

Sample Receipt Checklist

S2 Work Order#

Client: Fremont

Client Project ID:

Branch 1-3

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

Airbill #:

☒ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

19.5

Thermometer #

2

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

Additional Comments (if any):

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

Custodian Printed Name

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

S03@10.0'
2209530-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10712	09/27/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	4.9	0.50	"	"	"	"	"	"	

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	290	50	mg/kg	1	BF10713	"	09/28/22	EPA 8015M	
C28-C36 (ORO)	55	50	"	"	"	"	"	"	

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

S03@10.0'
2209530-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10719	09/28/22	09/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0111	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: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		74.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.319	0.0100	mg/L	1	BF10758	09/29/22	10/04/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/27/22 00:00**

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



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

S03@10.0'
2209530-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	26.9	0.240	mg/kg dry	1	BF10760	09/29/22	10/04/22	EPA 6020B
Barium	143	0.479	"	"	"	"	"	"
Cadmium	ND	0.240	"	"	"	"	"	"
Copper	17.3	0.479	"	"	"	"	"	"
Lead	14.6	0.240	"	"	"	"	"	"
Nickel	16.1	0.479	"	"	"	"	"	"
Selenium	1.50	0.312	"	"	"	"	"	"
Silver	ND	0.0240	"	"	"	"	"	"
Zinc	69.0	0.479	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0094	10/05/22	10/06/22	EPA 7196A	

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

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.9	0.0599	mg/L dry	1	BF10770	09/29/22	10/06/22	EPA 6020B	
Magnesium	107	0.0599	"	"	"	"	"	"	
Sodium	417	0.0599	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.65	0.00100	units	1	BFJ0137	10/06/22	10/06/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

S03@10.0'
2209530-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.4		%	1	BF10792	09/30/22	09/30/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.44	0.0100	mmhos/cm	1	BF10774	09/29/22	09/30/22	EPA 120.1	

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

Date Sampled: **09/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BF10773	09/29/22	09/30/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BF10712 - EPA 5030 Soil MS

Blank (BF10712-BLK1)

Prepared: 09/27/22 Analyzed: 09/28/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0400		95.8	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

LCS (BF10712-BS1)

Prepared: 09/27/22 Analyzed: 09/28/22

Benzene	0.115	0.0020	mg/kg	0.125		91.9	70-130			
Toluene	0.132	0.0050	"	0.125		106	70-130			
Ethylbenzene	0.148	0.0050	"	0.125		119	70-130			
m,p-Xylene	0.301	0.010	"	0.250		120	70-130			
o-Xylene	0.134	0.0050	"	0.125		107	70-130			
1,2,4-Trimethylbenzene	0.141	0.0050	"	0.125		113	70-130			
1,3,5-Trimethylbenzene	0.147	0.0050	"	0.125		117	70-130			
Naphthalene	0.125	0.0038	"	0.125		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	50-150			

Matrix Spike (BF10712-MS1)

Source: 2209520-01

Prepared: 09/27/22 Analyzed: 09/28/22

Benzene	0.117	0.0020	mg/kg	0.125	ND	93.9	70-130			
Toluene	0.134	0.0050	"	0.125	ND	107	70-130			
Ethylbenzene	0.155	0.0050	"	0.125	ND	124	70-130			
m,p-Xylene	0.314	0.010	"	0.250	ND	126	70-130			
o-Xylene	0.138	0.0050	"	0.125	ND	110	70-130			
1,2,4-Trimethylbenzene	0.149	0.0050	"	0.125	ND	119	70-130			
1,3,5-Trimethylbenzene	0.154	0.0050	"	0.125	ND	123	70-130			
Naphthalene	0.152	0.0038	"	0.125	ND	122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

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

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

Batch BFI0712 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0712-MSD1)		Source: 2209520-01			Prepared: 09/27/22 Analyzed: 09/28/22					
Benzene	0.117	0.0020	mg/kg	0.125	ND	93.3	70-130	0.590	30	
Toluene	0.135	0.0050	"	0.125	ND	108	70-130	0.312	30	
Ethylbenzene	0.155	0.0050	"	0.125	ND	124	70-130	0.522	30	
m,p-Xylene	0.315	0.010	"	0.250	ND	126	70-130	0.410	30	
o-Xylene	0.139	0.0050	"	0.125	ND	111	70-130	0.628	30	
1,2,4-Trimethylbenzene	0.146	0.0050	"	0.125	ND	117	70-130	1.81	30	
1,3,5-Trimethylbenzene	0.153	0.0050	"	0.125	ND	123	70-130	0.703	30	
Naphthalene	0.148	0.0038	"	0.125	ND	119	70-130	2.65	30	
Surrogate: 1,2-Dichloroethane-d4		0.0417	"	0.0400		104	50-150			
Surrogate: Toluene-d8		0.0402	"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene		0.0390	"	0.0400		97.6	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0713 - EPA 3550A

Blank (BFI0713-BLK1)

Prepared: 09/27/22 Analyzed: 09/28/22

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

LCS (BFI0713-BS1)

Prepared: 09/27/22 Analyzed: 09/28/22

C10-C28 (DRO)	621	50	mg/kg	500	124	70-130
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Matrix Spike (BFI0713-MS1)

Source: 2209520-01

Prepared: 09/27/22 Analyzed: 09/28/22

C10-C28 (DRO)	585	50	mg/kg	500	22.1	113	70-130
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Matrix Spike Dup (BFI0713-MSD1)

Source: 2209520-01

Prepared: 09/27/22 Analyzed: 09/28/22

C10-C28 (DRO)	544	50	mg/kg	500	22.1	104	70-130	7.25	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0719 - EPA 5030 Soil MS

Blank (BFI0719-BLK1)

Prepared & Analyzed: 09/28/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0269		"	0.0333		80.7	40-150			
Surrogate: Fluoranthene-d10	0.0295		"	0.0333		88.4	40-150			

LCS (BFI0719-BS1)

Prepared & Analyzed: 09/28/22

Acenaphthene	0.0383	0.00500	mg/kg	0.0333		115	31-137			
Anthracene	0.0341	0.00500	"	0.0333		102	30-120			
Benzo (a) anthracene	0.0321	0.00500	"	0.0333		96.4	30-120			
Benzo (a) pyrene	0.0364	0.00500	"	0.0333		109	30-120			
Benzo (b) fluoranthene	0.0386	0.00500	"	0.0333		116	30-120			
Benzo (k) fluoranthene	0.0367	0.00500	"	0.0333		110	30-120			
Chrysene	0.0297	0.00500	"	0.0333		89.1	30-120			
Dibenz (a,h) anthracene	0.0358	0.00500	"	0.0333		107	30-120			
Fluoranthene	0.0328	0.00500	"	0.0333		98.4	30-120			
Fluorene	0.0351	0.00500	"	0.0333		105	30-120			
Indeno (1,2,3-cd) pyrene	0.0325	0.00500	"	0.0333		97.4	30-120			
Pyrene	0.0306	0.00500	"	0.0333		91.8	35-142			
1-Methylnaphthalene	0.0336	0.00500	"	0.0333		101	35-142			
2-Methylnaphthalene	0.0366	0.00500	"	0.0333		110	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0347		"	0.0333		104	40-150			
Surrogate: Fluoranthene-d10	0.0368		"	0.0333		110	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0719 - EPA 5030 Soil MS

Matrix Spike (BFI0719-MS1)

Source: 2209496-01

Prepared & Analyzed: 09/28/22

Acenaphthene	0.0248	0.00500	mg/kg	0.0333	ND	74.3	31-137		
Anthracene	0.0229	0.00500	"	0.0333	ND	68.6	30-120		
Benzo (a) anthracene	0.0229	0.00500	"	0.0333	ND	68.8	30-120		
Benzo (a) pyrene	0.0256	0.00500	"	0.0333	ND	76.9	30-120		
Benzo (b) fluoranthene	0.0286	0.00500	"	0.0333	ND	85.7	30-120		
Benzo (k) fluoranthene	0.0274	0.00500	"	0.0333	ND	82.3	30-120		
Chrysene	0.0210	0.00500	"	0.0333	ND	63.0	30-120		
Dibenz (a,h) anthracene	0.0254	0.00500	"	0.0333	ND	76.1	30-120		
Fluoranthene	0.0232	0.00500	"	0.0333	ND	69.5	30-120		
Fluorene	0.0211	0.00500	"	0.0333	ND	63.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0284	0.00500	"	0.0333	ND	85.2	30-120		
Pyrene	0.0233	0.00500	"	0.0333	ND	69.8	35-142		
1-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.6	15-130		
2-Methylnaphthalene	0.0247	0.00500	"	0.0333	ND	74.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0227		"	0.0333		68.2	40-150		
Surrogate: Fluoranthene-d10	0.0246		"	0.0333		73.9	40-150		

Matrix Spike Dup (BFI0719-MSD1)

Source: 2209496-01

Prepared & Analyzed: 09/28/22

Acenaphthene	0.0227	0.00500	mg/kg	0.0333	ND	68.1	31-137	8.81	30
Anthracene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	16.3	30
Benzo (a) anthracene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	14.6	30
Benzo (a) pyrene	0.0219	0.00500	"	0.0333	ND	65.8	30-120	15.6	30
Benzo (b) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.5	30-120	16.6	30
Benzo (k) fluoranthene	0.0239	0.00500	"	0.0333	ND	71.8	30-120	13.7	30
Chrysene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	15.1	30
Dibenz (a,h) anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120	19.4	30
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	16.8	30
Fluorene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	10.5	30
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333	ND	67.5	30-120	23.1	30
Pyrene	0.0192	0.00500	"	0.0333	ND	57.4	35-142	19.5	30
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.8	15-130	17.9	50
2-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.3	15-130	22.2	50
Surrogate: 2-Methylnaphthalene-d10	0.0176		"	0.0333		52.9	40-150		
Surrogate: Fluoranthene-d10	0.0199		"	0.0333		59.6	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

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

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

Batch BFI0758 - EPA 3050B

Blank (BFI0758-BLK1)

Prepared: 09/29/22 Analyzed: 10/04/22

Boron ND 0.0100 mg/L

LCS (BFI0758-BS1)

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.47 0.0100 mg/L 5.00 109 80-120

Duplicate (BFI0758-DUP1)

Source: 2209323-01

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 0.0962 0.0100 mg/L 0.101 5.26 20

Matrix Spike (BFI0758-MS1)

Source: 2209323-01

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.54 0.0100 mg/L 5.00 0.101 109 75-125

Matrix Spike Dup (BFI0758-MSD1)

Source: 2209323-01

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.53 0.0100 mg/L 5.00 0.101 109 75-125 0.108 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3
Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0760 - EPA 3050B

Blank (BFI0760-BLK1)

Prepared: 09/29/22 Analyzed: 10/04/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFI0760-BS1)

Prepared: 09/29/22 Analyzed: 10/04/22

Arsenic	45.1	0.200	mg/kg wet	40.0	113	80-120
Barium	47.3	0.400	"	40.0	118	80-120
Cadmium	2.33	0.200	"	2.00	117	80-120
Copper	46.1	0.400	"	40.0	115	80-120
Lead	23.1	0.200	"	20.0	115	80-120
Nickel	45.1	0.400	"	40.0	113	80-120
Selenium	4.48	0.260	"	4.00	112	80-120
Silver	2.27	0.0200	"	2.00	113	80-120
Zinc	45.2	0.400	"	40.0	113	80-120

Duplicate (BFI0760-DUP1)

Source: 2209073-01

Prepared: 09/29/22 Analyzed: 10/04/22

Arsenic	8.15	0.272	mg/kg dry	7.92	2.86	20
Barium	205	0.544	"	198	3.20	20
Cadmium	0.441	0.272	"	0.432	2.05	20
Copper	27.7	0.544	"	27.1	2.15	20
Lead	17.3	0.272	"	17.2	0.349	20
Nickel	20.7	0.544	"	20.1	2.89	20
Selenium	2.84	0.354	"	2.74	3.73	20
Silver	0.110	0.0272	"	0.108	1.07	20
Zinc	106	0.544	"	103	2.68	20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0760 - EPA 3050B

Matrix Spike (BFI0760-MS1)		Source: 2209073-01			Prepared: 09/29/22 Analyzed: 10/04/22					
Arsenic	69.0	0.272	mg/kg dry	54.4	7.92	112	75-125			
Barium	266	0.544	"	54.4	198	125	75-125			
Cadmium	3.51	0.272	"	2.72	0.432	113	75-125			
Copper	86.1	0.544	"	54.4	27.1	108	75-125			
Lead	44.0	0.272	"	27.2	17.2	98.3	75-125			
Nickel	78.9	0.544	"	54.4	20.1	108	75-125			
Selenium	7.78	0.354	"	5.44	2.74	92.7	75-125			
Silver	3.08	0.0272	"	2.72	0.108	109	75-125			
Zinc	166	0.544	"	54.4	103	115	75-125			

Matrix Spike Dup (BFI0760-MSD1)		Source: 2209073-01			Prepared: 09/29/22 Analyzed: 10/04/22					
Arsenic	68.8	0.272	mg/kg dry	54.4	7.92	112	75-125	0.240	25	QM-05
Barium	269	0.544	"	54.4	198	130	75-125	1.16	25	
Cadmium	3.53	0.272	"	2.72	0.432	114	75-125	0.488	25	
Copper	87.6	0.544	"	54.4	27.1	111	75-125	1.73	25	
Lead	44.4	0.272	"	27.2	17.2	99.8	75-125	0.922	25	
Nickel	78.5	0.544	"	54.4	20.1	107	75-125	0.626	25	
Selenium	8.48	0.354	"	5.44	2.74	105	75-125	8.57	25	
Silver	3.10	0.0272	"	2.72	0.108	110	75-125	0.875	25	
Zinc	164	0.544	"	54.4	103	112	75-125	1.02	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0094 - 3060A Mod

Blank (BFJ0094-BLK1)

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0094-BS1)

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BFJ0094-DUP1)

Source: 2209514-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0094-MS1)

Source: 2209514-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 31.8 0.30 mg/kg dry 33.4 ND 95.2 75-125

Matrix Spike Dup (BFJ0094-MSD1)

Source: 2209514-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 35.0 0.30 mg/kg dry 33.4 ND 105 75-125 9.60 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

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

Summit Scientific

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

Batch BFI0770 - General Preparation

Blank (BFI0770-BLK1)

Prepared: 09/29/22 Analyzed: 10/06/22

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

LCS (BFI0770-BS1)

Prepared: 09/29/22 Analyzed: 10/06/22

Calcium	5.96	0.0500	mg/L wet	5.00	119	70-130
Magnesium	5.92	0.0500	"	5.00	118	70-130
Sodium	5.39	0.0500	"	5.00	108	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

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

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

Batch BFI0792 - General Preparation

Duplicate (BFI0792-DUP1)		Source: 2209506-01			Prepared & Analyzed: 09/30/22					
% Solids	89.9		%		90.6		0.834		20	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

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

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

Batch BFI0774 - General Preparation

Blank (BFI0774-BLK1)

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0774-BS1)

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BFI0774-DUP1)

Source: 2209471-01

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 1.02 0.0100 mmhos/cm 1.03 0.585 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

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

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

Batch BFI0773 - General Preparation

LCS (BFI0773-BS1)

Prepared: 09/29/22 Analyzed: 09/30/22

pH	9.14	pH Units	9.18	99.6	95-105
----	------	----------	------	------	--------

Duplicate (BFI0773-DUP1)

Source: 2209471-01

Prepared: 09/29/22 Analyzed: 09/30/22

pH	7.90	pH Units	7.90	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/06/22 16:08

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 10, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2209553

Enclosed are the results of analyses for samples received by Summit Scientific on 09/28/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S04@10.0'	2209553-01	Soil	09/28/22 00:00	09/28/22 15:00
B01@11.0'	2209553-02	Soil	09/28/22 00:00	09/28/22 15:00

Summit Scientific

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

Summit Scientific

S₂

2209553

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henahan

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

Phone:

Project Name: Branch 1-3

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	DR _{0,00,1600}	PAHs (915)	EC ₅ PH _{1.5} AR	Metals (915)			
1	S04@10.0'	09/28/22		3			X			X				X	X	X	X	X	X		
2	B01@11.0'	09/28/22		3			X			X				X	X	X	X	X	X		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>09/28/22</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/28/22 15:50</u>	Turn Around Time (Check)	Notes: <u>Bill to Noble</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
Temperature Upon Receipt: <u>15.3</u>	Corrected Temperature <u>—</u>	HNO ₃ lot # <u>—</u>	Sample Integrity: <u>Yes</u> No		
IR gun correction: <u>—</u>	IR gun #: <u>2</u>		Samples Intact: <u>Yes</u> No		

S₂

Sample Receipt Checklist

S2 Work Order# 2209553

Client: Fremont EnvironmentalClient Project ID: Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #: _____

☒ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

25.3

Thermometer #

2

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

Additional Comments (if any):

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

JMO
Custodian Printed Name

9/26/22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

S04@10.0'
2209553-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BF10751	09/28/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		133 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BF10752	09/28/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		89.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

S04@10.0'
2209553-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10754	09/29/22	09/29/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		42.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		62.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.256	0.0100	mg/L	1	BF10785	09/30/22	10/05/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/28/22 00:00**

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



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

S04@10.0'
2209553-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	8.11	0.237	mg/kg dry	1	BF10786	09/30/22	10/04/22	EPA 6020B
Barium	68.1	0.474	"	"	"	"	"	"
Cadmium	ND	0.237	"	"	"	"	"	"
Copper	15.3	0.474	"	"	"	"	"	"
Lead	14.4	0.237	"	"	"	"	"	"
Nickel	16.2	0.474	"	"	"	"	"	"
Selenium	1.34	0.308	"	"	"	"	"	"
Silver	0.0244	0.0237	"	"	"	"	"	"
Zinc	70.6	0.474	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0094	10/05/22	10/06/22	EPA 7196A	

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

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	96.1	0.0593	mg/L dry	1	BF10813	09/30/22	10/05/22	EPA 6020B	
Magnesium	138	0.0593	"	"	"	"	"	"	
Sodium	406	0.0593	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.21	0.00100	units	1	BFJ0139	10/06/22	10/06/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/22 00:00**

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

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

S04@10.0'
2209553-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.3	%	1	BFJ0014	10/03/22	10/05/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.85	0.0100	mmhos/cm	1	BF10815	09/30/22	10/03/22	EPA 120.1	

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

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.58		pH Units	1	BF10814	09/30/22	10/03/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

B01@11.0'
2209553-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10751	09/28/22	09/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10752	09/28/22	09/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

B01@11.0'
2209553-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10754	09/29/22	09/30/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		44.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		64.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.296	0.0100	mg/L	1	BF10785	09/30/22	10/05/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/28/22 00:00**

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



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

B01@11.0'
2209553-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	8.05	0.233	mg/kg dry	1	BF10786	09/30/22	10/04/22	EPA 6020B
Barium	53.7	0.467	"	"	"	"	"	"
Cadmium	ND	0.233	"	"	"	"	"	"
Copper	12.3	0.467	"	"	"	"	"	"
Lead	9.12	0.233	"	"	"	"	"	"
Nickel	14.0	0.467	"	"	"	"	"	"
Selenium	1.11	0.303	"	"	"	"	"	"
Silver	0.0256	0.0233	"	"	"	"	"	"
Zinc	65.6	0.467	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0094	10/05/22	10/06/22	EPA 7196A	

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

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	92.9	0.0583	mg/L dry	1	BF10813	09/30/22	10/05/22	EPA 6020B	
Magnesium	152	0.0583	"	"	"	"	"	"	
Sodium	492	0.0583	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.31	0.00100	units	1	BFJ0139	10/06/22	10/06/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

B01@11.0'
2209553-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.7	%	1	BFJ0014	10/03/22	10/05/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.44	0.0100	mmhos/cm	1	BF10815	09/30/22	10/03/22	EPA 120.1	

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

Date Sampled: **09/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.54		pH Units	1	BF10814	09/30/22	10/03/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFI0751 - EPA 5030 Soil MS

Blank (BFI0751-BLK1)

Prepared & Analyzed: 09/28/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

LCS (BFI0751-BS1)

Prepared & Analyzed: 09/28/22

Benzene	0.117	0.0020	mg/kg	0.125		93.5	70-130			
Toluene	0.137	0.0050	"	0.125		109	70-130			
Ethylbenzene	0.154	0.0050	"	0.125		123	70-130			
m,p-Xylene	0.309	0.010	"	0.250		123	70-130			
o-Xylene	0.138	0.0050	"	0.125		110	70-130			
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.125		119	70-130			
1,3,5-Trimethylbenzene	0.154	0.0050	"	0.125		123	70-130			
Naphthalene	0.138	0.0038	"	0.125		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0432		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	50-150			

Matrix Spike (BFI0751-MS1)

Source: 2209510-03

Prepared & Analyzed: 09/28/22

Benzene	0.115	0.0020	mg/kg	0.125	ND	92.4	70-130			
Toluene	0.136	0.0050	"	0.125	ND	109	70-130			
Ethylbenzene	0.152	0.0050	"	0.125	ND	121	70-130			
m,p-Xylene	0.305	0.010	"	0.250	ND	122	70-130			
o-Xylene	0.137	0.0050	"	0.125	ND	109	70-130			
1,2,4-Trimethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130			
1,3,5-Trimethylbenzene	0.150	0.0050	"	0.125	ND	120	70-130			
Naphthalene	0.141	0.0038	"	0.125	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0433		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.7	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

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

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

Batch BFI0751 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0751-MSD1)		Source: 2209510-03			Prepared & Analyzed: 09/28/22					
Benzene	0.117	0.0020	mg/kg	0.125	ND	93.3	70-130	1.06	30	
Toluene	0.138	0.0050	"	0.125	ND	111	70-130	1.84	30	
Ethylbenzene	0.162	0.0050	"	0.125	ND	130	70-130	6.88	30	
m,p-Xylene	0.325	0.010	"	0.250	ND	130	70-130	6.28	30	
o-Xylene	0.143	0.0050	"	0.125	ND	114	70-130	4.46	30	
1,2,4-Trimethylbenzene	0.153	0.0050	"	0.125	ND	123	70-130	5.59	30	
1,3,5-Trimethylbenzene	0.159	0.0050	"	0.125	ND	127	70-130	5.96	30	
Naphthalene	0.149	0.0038	"	0.125	ND	119	70-130	5.22	30	
Surrogate: 1,2-Dichloroethane-d4		0.0422	"	0.0400		106	50-150			
Surrogate: Toluene-d8		0.0401	"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene		0.0381	"	0.0400		95.2	50-150			

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PO Box 1289
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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0752 - EPA 3550A

Blank (BFI0752-BLK1)

Prepared: 09/28/22 Analyzed: 09/29/22

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

LCS (BFI0752-BS1)

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	649	50	mg/kg	500	130	70-130
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Matrix Spike (BFI0752-MS1)

Source: 2209510-03

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	582	50	mg/kg	500	80.0	100	70-130
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Matrix Spike Dup (BFI0752-MSD1)

Source: 2209510-03

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	520	50	mg/kg	500	80.0	88.0	70-130	11.2	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0754 - EPA 5030 Soil MS

Blank (BFI0754-BLK1)

Prepared & Analyzed: 09/29/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0206		"	0.0333		61.9	40-150			
Surrogate: Fluoranthene-d10	0.0332		"	0.0333		99.5	40-150			

LCS (BFI0754-BS1)

Prepared & Analyzed: 09/29/22

Acenaphthene	0.0307	0.00500	mg/kg	0.0333		92.1	31-137			
Anthracene	0.0306	0.00500	"	0.0333		91.7	30-120			
Benzo (a) anthracene	0.0251	0.00500	"	0.0333		75.2	30-120			
Benzo (a) pyrene	0.0259	0.00500	"	0.0333		77.7	30-120			
Benzo (b) fluoranthene	0.0249	0.00500	"	0.0333		74.7	30-120			
Benzo (k) fluoranthene	0.0326	0.00500	"	0.0333		97.9	30-120			
Chrysene	0.0336	0.00500	"	0.0333		101	30-120			
Dibenz (a,h) anthracene	0.0183	0.00500	"	0.0333		54.9	30-120			
Fluoranthene	0.0303	0.00500	"	0.0333		90.8	30-120			
Fluorene	0.0316	0.00500	"	0.0333		94.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333		55.5	30-120			
Pyrene	0.0344	0.00500	"	0.0333		103	35-142			
1-Methylnaphthalene	0.0268	0.00500	"	0.0333		80.3	35-142			
2-Methylnaphthalene	0.0323	0.00500	"	0.0333		96.8	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0265		"	0.0333		79.5	40-150			
Surrogate: Fluoranthene-d10	0.0307		"	0.0333		92.1	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0754 - EPA 5030 Soil MS

Matrix Spike (BFI0754-MS1)

Source: 2209541-11

Prepared & Analyzed: 09/29/22

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.4	31-137		
Anthracene	0.0228	0.00500	"	0.0333	ND	68.4	30-120		
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.4	30-120		
Benzo (a) pyrene	0.0193	0.00500	"	0.0333	ND	57.9	30-120		
Benzo (b) fluoranthene	0.0183	0.00500	"	0.0333	ND	55.0	30-120		
Benzo (k) fluoranthene	0.0221	0.00500	"	0.0333	ND	66.3	30-120		
Chrysene	0.0246	0.00500	"	0.0333	ND	73.8	30-120		
Dibenz (a,h) anthracene	0.0147	0.00500	"	0.0333	ND	44.0	30-120		
Fluoranthene	0.0233	0.00500	"	0.0333	ND	69.9	30-120		
Fluorene	0.0226	0.00500	"	0.0333	ND	67.7	30-120		
Indeno (1,2,3-cd) pyrene	0.0142	0.00500	"	0.0333	ND	42.7	30-120		
Pyrene	0.0250	0.00500	"	0.0333	ND	75.1	35-142		
1-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	47.9	15-130		
2-Methylnaphthalene	0.0213	0.00500	"	0.0333	ND	63.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0168		"	0.0333		50.3	40-150		
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.7	40-150		

Matrix Spike Dup (BFI0754-MSD1)

Source: 2209541-11

Prepared & Analyzed: 09/29/22

Acenaphthene	0.0228	0.00500	mg/kg	0.0333	ND	68.4	31-137	4.54	30
Anthracene	0.0232	0.00500	"	0.0333	ND	69.5	30-120	1.57	30
Benzo (a) anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	3.15	30
Benzo (a) pyrene	0.0168	0.00500	"	0.0333	ND	50.5	30-120	13.7	30
Benzo (b) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.4	30-120	2.53	30
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	2.03	30
Chrysene	0.0251	0.00500	"	0.0333	ND	75.3	30-120	2.03	30
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	4.57	30
Fluoranthene	0.0233	0.00500	"	0.0333	ND	69.8	30-120	0.147	30
Fluorene	0.0236	0.00500	"	0.0333	ND	70.9	30-120	4.64	30
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	0.651	30
Pyrene	0.0258	0.00500	"	0.0333	ND	77.3	35-142	2.81	30
1-Methylnaphthalene	0.0190	0.00500	"	0.0333	ND	56.9	15-130	17.1	50
2-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.3	15-130	12.6	50
Surrogate: 2-Methylnaphthalene-d10	0.0194		"	0.0333		58.3	40-150		
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.7	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

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

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

Batch BFI0785 - EPA 3050B

Blank (BFI0785-BLK1)

Prepared: 09/30/22 Analyzed: 10/05/22

Boron ND 0.0100 mg/L

LCS (BFI0785-BS1)

Prepared: 09/30/22 Analyzed: 10/05/22

Boron 5.95 0.0100 mg/L 5.00 119 80-120

Duplicate (BFI0785-DUP1)

Source: 2209538-01

Prepared: 09/30/22 Analyzed: 10/05/22

Boron 0.376 0.0100 mg/L 0.247 41.3 20 QR-03

Matrix Spike (BFI0785-MS1)

Source: 2209538-01

Prepared: 09/30/22 Analyzed: 10/05/22

Boron 5.95 0.0100 mg/L 5.00 0.247 114 75-125

Matrix Spike Dup (BFI0785-MSD1)

Source: 2209538-01

Prepared: 09/30/22 Analyzed: 10/05/22

Boron 5.97 0.0100 mg/L 5.00 0.247 114 75-125 0.324 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0786 - EPA 3050B

Blank (BFI0786-BLK1)

Prepared: 09/30/22 Analyzed: 10/04/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFI0786-BS1)

Prepared: 09/30/22 Analyzed: 10/04/22

Arsenic	42.0	0.200	mg/kg wet	40.0	105	80-120
Barium	40.8	0.400	"	40.0	102	80-120
Cadmium	2.07	0.200	"	2.00	103	80-120
Copper	40.0	0.400	"	40.0	100	80-120
Lead	19.5	0.200	"	20.0	97.6	80-120
Nickel	39.6	0.400	"	40.0	99.1	80-120
Selenium	4.28	0.260	"	4.00	107	80-120
Silver	2.03	0.0200	"	2.00	101	80-120
Zinc	42.3	0.400	"	40.0	106	80-120

Duplicate (BFI0786-DUP1)

Source: 2209491-01

Prepared: 09/30/22 Analyzed: 10/04/22

Arsenic	4.83	0.225	mg/kg dry	5.01	3.80	20
Barium	146	0.450	"	153	4.92	20
Cadmium	1.46	0.225	"	1.50	2.32	20
Copper	25.2	0.450	"	26.3	4.07	20
Lead	123	0.225	"	130	5.39	20
Nickel	5.81	0.450	"	6.06	4.18	20
Selenium	0.953	0.292	"	0.916	3.89	20
Silver	0.409	0.0225	"	0.426	3.93	20
Zinc	210	0.450	"	219	4.22	20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0786 - EPA 3050B

Matrix Spike (BFI0786-MS1)		Source: 2209491-01			Prepared: 09/30/22 Analyzed: 10/04/22					
Arsenic	50.3	0.225	mg/kg dry	45.0	5.01	101	75-125			
Barium	188	0.450	"	45.0	153	77.9	75-125			
Cadmium	3.54	0.225	"	2.25	1.50	90.7	75-125			
Copper	70.9	0.450	"	45.0	26.3	99.4	75-125			
Lead	136	0.225	"	22.5	130	26.8	75-125			QM-02
Nickel	48.7	0.450	"	45.0	6.06	94.9	75-125			
Selenium	5.38	0.292	"	4.50	0.916	99.2	75-125			
Silver	2.62	0.0225	"	2.25	0.426	97.6	75-125			
Zinc	351	0.450	"	45.0	219	292	75-125			QM-02

Matrix Spike Dup (BFI0786-MSD1)		Source: 2209491-01			Prepared: 09/30/22 Analyzed: 10/04/22					
Arsenic	51.3	0.225	mg/kg dry	45.0	5.01	103	75-125	1.96	25	
Barium	192	0.450	"	45.0	153	86.2	75-125	1.98	25	
Cadmium	3.68	0.225	"	2.25	1.50	97.1	75-125	3.99	25	
Copper	72.2	0.450	"	45.0	26.3	102	75-125	1.74	25	
Lead	139	0.225	"	22.5	130	41.3	75-125	2.37	25	QM-02
Nickel	49.5	0.450	"	45.0	6.06	96.7	75-125	1.65	25	
Selenium	5.26	0.292	"	4.50	0.916	96.5	75-125	2.26	25	
Silver	2.73	0.0225	"	2.25	0.426	103	75-125	4.15	25	
Zinc	355	0.450	"	45.0	219	302	75-125	1.20	25	QM-02

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0094 - 3060A Mod

Blank (BFJ0094-BLK1)

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0094-BS1)

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BFJ0094-DUP1)

Source: 2209514-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0094-MS1)

Source: 2209514-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 31.8 0.30 mg/kg dry 33.4 ND 95.2 75-125

Matrix Spike Dup (BFJ0094-MSD1)

Source: 2209514-01

Prepared: 10/05/22 Analyzed: 10/06/22

Chromium, Hexavalent 35.0 0.30 mg/kg dry 33.4 ND 105 75-125 9.60 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

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

Summit Scientific

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

Batch BFI0813 - General Preparation

Blank (BFI0813-BLK1)

Prepared: 09/30/22 Analyzed: 10/05/22

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

LCS (BFI0813-BS1)

Prepared: 09/30/22 Analyzed: 10/05/22

Calcium	6.24	0.0500	mg/L wet	5.00	125	70-130
Magnesium	6.52	0.0500	"	5.00	130	70-130
Sodium	6.31	0.0500	"	5.00	126	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

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

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

Batch BFJ0014 - General Preparation

Duplicate (BFJ0014-DUP1)		Source: 2209367-03			Prepared: 10/03/22 Analyzed: 10/05/22					
% Solids	89.6		%		90.3			0.809	20	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

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

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

Batch BFI0815 - General Preparation

Blank (BFI0815-BLK1)

Prepared: 09/30/22 Analyzed: 10/03/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0815-BS1)

Prepared: 09/30/22 Analyzed: 10/03/22

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BFI0815-DUP1)

Source: 2209520-04

Prepared: 09/30/22 Analyzed: 10/03/22

Specific Conductance (EC) 2.08 0.0100 mmhos/cm 2.08 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

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

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

Batch BFI0814 - General Preparation

LCS (BFI0814-BS1)

Prepared: 09/30/22 Analyzed: 10/03/22

pH	9.14	pH Units	9.18	99.6	95-105
----	------	----------	------	------	--------

Duplicate (BFI0814-DUP1)

Source: 2209520-04

Prepared: 09/30/22 Analyzed: 10/03/22

pH	7.65	pH Units	7.65	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/10/22 09:25

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 05, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Chevron - Branch 1-3 TB
Work Order #2209597

Enclosed are the results of analyses for samples received by Summit Scientific on 09/30/22 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB

Project Number: C022-066

Project Manager: Paul Henchan

Reported:
10/05/22 12:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W-S WALL 11FT	2209597-01	Soil	09/30/22 00:00	09/30/22 17:00
W-WALL 7FT	2209597-02	Soil	09/30/22 00:00	09/30/22 17:00

Summit Scientific

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

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Fremont Environmental Inc.

Project Manager: Paul Henchan

Address:

E-Mail:

City/State/Zip:

Phone:

Project Name: CHEVRON - BRANCH 1-3 TB

Sampler Name: HENEHAN

Project Number: COZZ-066

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions			
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBs	DRO, RRO	PAHs	pH, EC, SAR	Boron	915-1 metals	Arsenic	BTEXN+TMBs	TDS, Cl, Su			
1	W-S WALL 11 FT	9/30/22		2			✓			✓				✓	✓	✓								
2	W WALL 7 FT	"		2			✓			✓				✓	✓	✓								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
PAH/FE	9/30/22 1700			Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	5.9 on 10
				Temperature Upon Receipt: <input checked="" type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2209597

Client: Fremont Env

Client Project ID: Chevron-Branch 2-3 TB

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

Airbill #:

☐ ☒ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C) 5.9

Thermometer #

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

Additional Comments (if any):

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

Custodian Printed Name

Date/Time

9-30-22 18:45



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB
Project Number: C022-066
Project Manager: Paul Henchan

Reported:
10/05/22 12:16

W-S WALL 11FT
2209597-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0001	10/01/22	10/01/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0002	10/01/22	10/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		77.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB
Project Number: C022-066
Project Manager: Paul Henchan

Reported:
10/05/22 12:16

W-S WALL 11FT
2209597-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0004	10/03/22	10/04/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		44.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.3 %	40-150		"	"	"	"	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB
Project Number: C022-066
Project Manager: Paul Henchan

Reported:
10/05/22 12:16

W-WALL 7FT
2209597-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0001	10/01/22	10/01/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0002	10/01/22	10/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB
Project Number: C022-066
Project Manager: Paul Henchan

Reported:
10/05/22 12:16

W-WALL 7FT
2209597-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0004	10/03/22	10/04/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.9 %	40-150		"	"	"	"	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB

Project Number: C022-066
Project Manager: Paul Henchan

Reported:
10/05/22 12:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0001 - EPA 5030 Soil MS

Blank (BFJ0001-BLK1)

Prepared & Analyzed: 10/01/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0426		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	50-150			

LCS (BFJ0001-BS1)

Prepared & Analyzed: 10/01/22

Benzene	0.0753	0.0020	mg/kg	0.100		75.3	70-130			
Toluene	0.0834	0.0050	"	0.100		83.4	70-130			
Ethylbenzene	0.0919	0.0050	"	0.100		91.9	70-130			
m,p-Xylene	0.183	0.010	"	0.200		91.7	70-130			
o-Xylene	0.0830	0.0050	"	0.100		83.0	70-130			
1,2,4-Trimethylbenzene	0.0869	0.0050	"	0.100		86.9	70-130			
1,3,5-Trimethylbenzene	0.0907	0.0050	"	0.100		90.7	70-130			
Naphthalene	0.0737	0.0038	"	0.100		73.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0369		"	0.0400		92.2	50-150			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0368		"	0.0400		92.0	50-150			

Matrix Spike (BFJ0001-MS1)

Source: 2209597-01

Prepared & Analyzed: 10/01/22

Benzene	0.0749	0.0020	mg/kg	0.100	ND	74.9	70-130			
Toluene	0.0802	0.0050	"	0.100	ND	80.2	70-130			
Ethylbenzene	0.0811	0.0050	"	0.100	ND	81.1	70-130			
m,p-Xylene	0.165	0.010	"	0.200	ND	82.4	70-130			
o-Xylene	0.0778	0.0050	"	0.100	ND	77.8	70-130			
1,2,4-Trimethylbenzene	0.0828	0.0050	"	0.100	ND	82.8	70-130			
1,3,5-Trimethylbenzene	0.0832	0.0050	"	0.100	ND	83.2	70-130			
Naphthalene	0.0873	0.0038	"	0.100	ND	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0425		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB
Project Number: C022-066
Project Manager: Paul Henchan

Reported:
10/05/22 12:16

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

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

Batch BFJ0001 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0001-MSD1)		Source: 2209597-01			Prepared & Analyzed: 10/01/22					
Benzene	0.0851	0.0020	mg/kg	0.100	ND	85.1	70-130	12.8	30	
Toluene	0.0869	0.0050	"	0.100	ND	86.9	70-130	8.04	30	
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	24.5	30	
m,p-Xylene	0.206	0.010	"	0.200	ND	103	70-130	22.3	30	
o-Xylene	0.0927	0.0050	"	0.100	ND	92.7	70-130	17.5	30	
1,2,4-Trimethylbenzene	0.0942	0.0050	"	0.100	ND	94.2	70-130	12.9	30	
1,3,5-Trimethylbenzene	0.0993	0.0050	"	0.100	ND	99.3	70-130	17.6	30	
Naphthalene	0.0869	0.0038	"	0.100	ND	86.9	70-130	0.379	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0400		86.0	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0369		"	0.0400		92.2	50-150			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB
Project Number: C022-066
Project Manager: Paul Henchan

Reported:
10/05/22 12:16

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0002 - EPA 3550A

Blank (BFJ0002-BLK1)

Prepared & Analyzed: 10/01/22

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

LCS (BFJ0002-BS1)

Prepared & Analyzed: 10/01/22

C10-C28 (DRO)	628	50	mg/kg	500	126	70-130
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Matrix Spike (BFJ0002-MS1)

Source: 2209597-01

Prepared & Analyzed: 10/01/22

C10-C28 (DRO)	568	50	mg/kg	500	17.0	110	70-130
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Matrix Spike Dup (BFJ0002-MSD1)

Source: 2209597-01

Prepared & Analyzed: 10/01/22

C10-C28 (DRO)	504	50	mg/kg	500	17.0	97.5	70-130	11.9	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB
Project Number: C022-066
Project Manager: Paul Henchan

Reported:
10/05/22 12:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0004 - EPA 5030 Soil MS

Blank (BFJ0004-BLK1)

Prepared & Analyzed: 10/03/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0219		"	0.0333		65.8	40-150			
Surrogate: Fluoranthene-d10	0.0319		"	0.0333		95.8	40-150			

LCS (BFJ0004-BS1)

Prepared & Analyzed: 10/03/22

Acenaphthene	0.0294	0.00500	mg/kg	0.0333		88.2	31-137			
Anthracene	0.0290	0.00500	"	0.0333		87.0	30-120			
Benzo (a) anthracene	0.0246	0.00500	"	0.0333		73.9	30-120			
Benzo (a) pyrene	0.0238	0.00500	"	0.0333		71.4	30-120			
Benzo (b) fluoranthene	0.0267	0.00500	"	0.0333		80.1	30-120			
Benzo (k) fluoranthene	0.0321	0.00500	"	0.0333		96.2	30-120			
Chrysene	0.0333	0.00500	"	0.0333		100	30-120			
Dibenz (a,h) anthracene	0.0219	0.00500	"	0.0333		65.8	30-120			
Fluoranthene	0.0293	0.00500	"	0.0333		87.8	30-120			
Fluorene	0.0310	0.00500	"	0.0333		93.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0330	0.00500	"	0.0333		98.9	30-120			
Pyrene	0.0338	0.00500	"	0.0333		101	35-142			
1-Methylnaphthalene	0.0253	0.00500	"	0.0333		76.0	35-142			
2-Methylnaphthalene	0.0311	0.00500	"	0.0333		93.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0260		"	0.0333		77.9	40-150			
Surrogate: Fluoranthene-d10	0.0288		"	0.0333		86.4	40-150			

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB
Project Number: C022-066
Project Manager: Paul Henchan

Reported:
10/05/22 12:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0004 - EPA 5030 Soil MS

Matrix Spike (BFJ0004-MS1)

Source: 2209421-02

Prepared & Analyzed: 10/03/22

Acenaphthene	0.0147	0.00500	mg/kg	0.0333	ND	44.0	31-137		
Anthracene	0.0135	0.00500	"	0.0333	ND	40.5	30-120		
Benzo (a) anthracene	0.0160	0.00500	"	0.0333	ND	47.9	30-120		
Benzo (a) pyrene	0.0144	0.00500	"	0.0333	ND	43.3	30-120		
Benzo (b) fluoranthene	0.0241	0.00500	"	0.0333	ND	72.4	30-120		
Benzo (k) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.4	30-120		
Chrysene	0.0137	0.00500	"	0.0333	ND	41.0	30-120		
Dibenz (a,h) anthracene	0.0140	0.00500	"	0.0333	ND	42.1	30-120		
Fluoranthene	0.0140	0.00500	"	0.0333	ND	42.0	30-120		
Fluorene	0.0166	0.00500	"	0.0333	ND	49.7	30-120		
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	42.1	30-120		
Pyrene	0.0139	0.00500	"	0.0333	ND	41.6	35-142		
1-Methylnaphthalene	0.0134	0.00500	"	0.0333	ND	40.1	15-130		
2-Methylnaphthalene	0.0202	0.00500	"	0.0333	ND	60.5	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0259		"	0.0333		77.7	40-150		
Surrogate: Fluoranthene-d10	0.0144		"	0.0333		43.1	40-150		

Matrix Spike Dup (BFJ0004-MSD1)

Source: 2209421-02

Prepared & Analyzed: 10/03/22

Acenaphthene	0.0146	0.00500	mg/kg	0.0333	ND	43.8	31-137	0.456	30
Anthracene	0.0137	0.00500	"	0.0333	ND	41.2	30-120	1.70	30
Benzo (a) anthracene	0.0137	0.00500	"	0.0333	ND	41.0	30-120	15.5	30
Benzo (a) pyrene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	8.20	30
Benzo (b) fluoranthene	0.0259	0.00500	"	0.0333	ND	77.6	30-120	6.94	30
Benzo (k) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	13.8	30
Chrysene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	4.83	30
Dibenz (a,h) anthracene	0.0151	0.00500	"	0.0333	ND	45.3	30-120	7.14	30
Fluoranthene	0.0141	0.00500	"	0.0333	ND	42.2	30-120	0.475	30
Fluorene	0.0158	0.00500	"	0.0333	ND	47.3	30-120	4.93	30
Indeno (1,2,3-cd) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	16.0	30
Pyrene	0.0146	0.00500	"	0.0333	ND	43.9	35-142	5.40	30
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.4	15-130	16.6	50
2-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.7	15-130	13.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0205		"	0.0333		61.5	40-150		
Surrogate: Fluoranthene-d10	0.0143		"	0.0333		42.9	40-150		

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Branch 1-3 TB

Project Number: C022-066
Project Manager: Paul Henchan

Reported:
10/05/22 12:16

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 12, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210001

Enclosed are the results of analyses for samples received by Summit Scientific on 10/03/22 15:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B02@11.0'	2210001-01	Soil	10/03/22 00:00	10/03/22 15:41

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

2210001

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

Phone:

Project Name: Branch 1-3

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBS(915)	GRD, PRO, 1020	PAHs (915)	EC, PH ₂ SAR Rosen	Metals (915)		
1	B02011.0'	10/03/22		2			X			X				X	X	X	X	X	X	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/03/22 15:41</u>	Received by: <u>Shane Butler</u>	Date/Time: <u>10/3/22 15:41</u>	Turn Around Time (Check)	Notes: <u>Bill to Noble</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
Temperature Upon Receipt: <u>26.9</u>	Corrected Temperature <u>—</u>	HNO ₃ lot # <u>—</u>	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>—</u>	IR gun #: <u>—</u>				

S₂

2210001

Sample Receipt Checklist

S2 Work Order# _____

Client: Fremont Env. Client Project ID: Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 21.4 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>on ice</i>
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>24 hour</i>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.
513
 Custodian Printed Name

10/3/22 15:41
 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

B02@11.0'
2210001-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0047	10/03/22	10/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		87.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0048	10/03/22	10/03/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/03/22 00:00**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

B02@11.0'
2210001-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0049	10/04/22	10/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.325	0.0100	mg/L	1	BFJ0086	10/05/22	10/07/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/03/22 00:00**

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



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

B02@11.0'
2210001-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.74	0.213	mg/kg dry	1	BFJ0163	10/07/22	10/09/22	EPA 6020B
Barium	64.0	0.426	"	"	"	"	"	"
Cadmium	ND	0.213	"	"	"	"	"	"
Copper	3.42	0.426	"	"	"	"	"	"
Lead	3.87	0.213	"	"	"	"	"	"
Nickel	4.28	0.426	"	"	"	"	"	"
Selenium	0.557	0.277	"	"	"	"	"	"
Silver	ND	0.0213	"	"	"	"	"	"
Zinc	16.2	0.426	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0255	10/11/22	10/12/22	EPA 7196A	

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

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	244	0.0532	mg/L dry	1	BFJ0174	10/07/22	10/10/22	EPA 6020B	
Magnesium	332	0.0532	"	"	"	"	"	"	
Sodium	1010	0.0532	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.89	0.00100	units	1	BFJ0219	10/10/22	10/10/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

B02@11.0'
2210001-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BFJ0130	10/06/22	10/07/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.52	0.0100	mmhos/cm	1	BFJ0182	10/07/22	10/10/22	EPA 120.1	

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

Date Sampled: **10/03/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.65		pH Units	1	BFJ0183	10/07/22	10/10/22	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0049 - EPA 5030 Soil MS

Blank (BFJ0049-BLK1)

Prepared & Analyzed: 10/04/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0206		"	0.0333		61.8	40-150			
Surrogate: Fluoranthene-d10	0.0326		"	0.0333		97.7	40-150			

LCS (BFJ0049-BS1)

Prepared & Analyzed: 10/04/22

Acenaphthene	0.0278	0.00500	mg/kg	0.0333		83.3	31-137			
Anthracene	0.0277	0.00500	"	0.0333		83.1	30-120			
Benzo (a) anthracene	0.0220	0.00500	"	0.0333		66.1	30-120			
Benzo (a) pyrene	0.0196	0.00500	"	0.0333		58.8	30-120			
Benzo (b) fluoranthene	0.0268	0.00500	"	0.0333		80.4	30-120			
Benzo (k) fluoranthene	0.0307	0.00500	"	0.0333		92.2	30-120			
Chrysene	0.0311	0.00500	"	0.0333		93.3	30-120			
Dibenz (a,h) anthracene	0.0193	0.00500	"	0.0333		58.0	30-120			
Fluoranthene	0.0278	0.00500	"	0.0333		83.3	30-120			
Fluorene	0.0298	0.00500	"	0.0333		89.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333		52.5	30-120			
Pyrene	0.0360	0.00500	"	0.0333		108	35-142			
1-Methylnaphthalene	0.0204	0.00500	"	0.0333		61.2	35-142			
2-Methylnaphthalene	0.0204	0.00500	"	0.0333		61.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333		69.8	40-150			
Surrogate: Fluoranthene-d10	0.0268		"	0.0333		80.3	40-150			

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0049 - EPA 5030 Soil MS

Matrix Spike (BFJ0049-MS1)			Source: 2209455-01		Prepared & Analyzed: 10/04/22					
Acenaphthene	0.0191	0.00500	mg/kg	0.0333	ND	57.4	31-137			
Anthracene	0.0201	0.00500	"	0.0333	ND	60.3	30-120			
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	ND	59.7	30-120			
Benzo (a) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120			
Benzo (b) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.3	30-120			
Benzo (k) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.5	30-120			
Chrysene	0.0228	0.00500	"	0.0333	ND	68.5	30-120			
Dibenz (a,h) anthracene	0.0151	0.00500	"	0.0333	ND	45.4	30-120			
Fluoranthene	0.0219	0.00500	"	0.0333	ND	65.6	30-120			
Fluorene	0.0203	0.00500	"	0.0333	ND	60.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0178	0.00500	"	0.0333	ND	53.3	30-120			
Pyrene	0.0247	0.00500	"	0.0333	ND	74.0	35-142			
1-Methylnaphthalene	0.0161	0.00500	"	0.0333	ND	48.4	15-130			
2-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.4	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0180		"	0.0333		54.1	40-150			
Surrogate: Fluoranthene-d10	0.0217		"	0.0333		65.1	40-150			

Matrix Spike Dup (BFJ0049-MSD1)			Source: 2209455-01		Prepared & Analyzed: 10/04/22					
Acenaphthene	0.0215	0.00500	mg/kg	0.0333	ND	64.4	31-137	11.5	30	
Anthracene	0.0224	0.00500	"	0.0333	ND	67.1	30-120	10.7	30	
Benzo (a) anthracene	0.0230	0.00500	"	0.0333	ND	69.0	30-120	14.6	30	
Benzo (a) pyrene	0.0181	0.00500	"	0.0333	ND	54.2	30-120	0.908	30	
Benzo (b) fluoranthene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	15.9	30	
Benzo (k) fluoranthene	0.0241	0.00500	"	0.0333	ND	72.2	30-120	14.5	30	
Chrysene	0.0259	0.00500	"	0.0333	ND	77.6	30-120	12.5	30	
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.5	30-120	2.20	30	
Fluoranthene	0.0239	0.00500	"	0.0333	ND	71.7	30-120	8.86	30	
Fluorene	0.0220	0.00500	"	0.0333	ND	66.1	30-120	8.43	30	
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333	ND	52.4	30-120	1.82	30	
Pyrene	0.0290	0.00500	"	0.0333	ND	87.0	35-142	16.1	30	
1-Methylnaphthalene	0.0196	0.00500	"	0.0333	ND	58.8	15-130	19.4	50	
2-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.3	15-130	4.23	50	
Surrogate: 2-Methylnaphthalene-d10	0.0217		"	0.0333		65.2	40-150			
Surrogate: Fluoranthene-d10	0.0239		"	0.0333		71.8	40-150			

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

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

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

Batch BFJ0086 - EPA 3050B

Blank (BFJ0086-BLK1)

Prepared: 10/05/22 Analyzed: 10/07/22

Boron ND 0.0100 mg/L

LCS (BFJ0086-BS1)

Prepared: 10/05/22 Analyzed: 10/07/22

Boron 5.37 0.0100 mg/L 5.00 107 80-120

Duplicate (BFJ0086-DUP1)

Source: 2209566-01

Prepared: 10/05/22 Analyzed: 10/07/22

Boron 0.312 0.0100 mg/L 0.286 8.66 20

Matrix Spike (BFJ0086-MS1)

Source: 2209566-01

Prepared: 10/05/22 Analyzed: 10/07/22

Boron 5.63 0.0100 mg/L 5.00 0.286 107 75-125

Matrix Spike Dup (BFJ0086-MSD1)

Source: 2209566-01

Prepared: 10/05/22 Analyzed: 10/07/22

Boron 5.39 0.0100 mg/L 5.00 0.286 102 75-125 4.47 25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0163 - EPA 3050B

Blank (BFJ0163-BLK1)

Prepared: 10/07/22 Analyzed: 10/09/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFJ0163-BS1)

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	42.0	0.200	mg/kg wet	40.0	105	80-120
Barium	40.9	0.400	"	40.0	102	80-120
Cadmium	2.01	0.200	"	2.00	101	80-120
Copper	40.4	0.400	"	40.0	101	80-120
Lead	18.7	0.200	"	20.0	93.5	80-120
Nickel	40.6	0.400	"	40.0	102	80-120
Selenium	4.13	0.260	"	4.00	103	80-120
Silver	1.98	0.0200	"	2.00	99.0	80-120
Zinc	41.8	0.400	"	40.0	104	80-120

Duplicate (BFJ0163-DUP1)

Source: 2210001-01

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	1.77	0.213	mg/kg dry	1.74	1.76	20
Barium	57.3	0.426	"	64.0	11.1	20
Cadmium	0.0708	0.213	"	0.0800	12.1	20
Copper	3.44	0.426	"	3.42	0.388	20
Lead	3.44	0.213	"	3.87	11.6	20
Nickel	4.28	0.426	"	4.28	0.173	20
Selenium	0.537	0.277	"	0.557	3.60	20
Silver	0.0163	0.0213	"	0.0180	10.1	20
Zinc	15.9	0.426	"	16.2	1.59	20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0163 - EPA 3050B

Matrix Spike (BFJ0163-MS1)		Source: 2210001-01			Prepared: 10/07/22 Analyzed: 10/09/22					
Arsenic	46.0	0.213	mg/kg dry	42.6	1.74	104	75-125			
Barium	102	0.426	"	42.6	64.0	89.7	75-125			
Cadmium	2.35	0.213	"	2.13	0.0800	107	75-125			
Copper	45.1	0.426	"	42.6	3.42	97.9	75-125			
Lead	23.0	0.213	"	21.3	3.87	89.9	75-125			
Nickel	46.5	0.426	"	42.6	4.28	99.2	75-125			
Selenium	4.68	0.277	"	4.26	0.557	96.8	75-125			
Silver	2.19	0.0213	"	2.13	0.0180	102	75-125			
Zinc	57.7	0.426	"	42.6	16.2	97.5	75-125			

Matrix Spike Dup (BFJ0163-MSD1)		Source: 2210001-01			Prepared: 10/07/22 Analyzed: 10/09/22					
Arsenic	45.9	0.213	mg/kg dry	42.6	1.74	104	75-125	0.245	25	
Barium	105	0.426	"	42.6	64.0	95.5	75-125	2.40	25	
Cadmium	2.39	0.213	"	2.13	0.0800	108	75-125	1.77	25	
Copper	45.2	0.426	"	42.6	3.42	98.1	75-125	0.160	25	
Lead	23.4	0.213	"	21.3	3.87	91.9	75-125	1.79	25	
Nickel	46.6	0.426	"	42.6	4.28	99.5	75-125	0.314	25	
Selenium	4.88	0.277	"	4.26	0.557	102	75-125	4.31	25	
Silver	2.25	0.0213	"	2.13	0.0180	105	75-125	2.41	25	
Zinc	57.6	0.426	"	42.6	16.2	97.2	75-125	0.217	25	

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0255 - 3060A Mod

Blank (BFJ0255-BLK1)

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0255-BS1)

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent 21.2 0.30 mg/kg wet 25.0 84.8 80-120

Duplicate (BFJ0255-DUP1)

Source: 2209568-01

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0255-MS1)

Source: 2209568-01

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent 28.0 0.30 mg/kg dry 28.5 ND 98.2 75-125

Matrix Spike Dup (BFJ0255-MSD1)

Source: 2209568-01

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent 30.9 0.30 mg/kg dry 28.5 ND 108 75-125 9.87 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

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

Summit Scientific

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

Batch BFJ0174 - General Preparation

Blank (BFJ0174-BLK1)

Prepared: 10/07/22 Analyzed: 10/10/22

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

LCS (BFJ0174-BS1)

Prepared: 10/07/22 Analyzed: 10/10/22

Calcium	5.87	0.0500	mg/L wet	5.00	117	70-130
Magnesium	5.62	0.0500	"	5.00	112	70-130
Sodium	5.51	0.0500	"	5.00	110	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

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

Summit Scientific

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

Batch BFJ0130 - General Preparation

Duplicate (BFJ0130-DUP1)		Source: 2209592-01		Prepared: 10/06/22 Analyzed: 10/07/22	
% Solids	98.6		%	98.5	0.116 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

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

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

Batch BFJ0182 - General Preparation

Blank (BFJ0182-BLK1)

Prepared: 10/07/22 Analyzed: 10/10/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0182-BS1)

Prepared: 10/07/22 Analyzed: 10/10/22

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BFJ0182-DUP1)

Source: 2209593-01

Prepared: 10/07/22 Analyzed: 10/10/22

Specific Conductance (EC) 8.12 0.0100 mmhos/cm 8.42 3.72 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

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

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

Batch BFJ0183 - General Preparation

LCS (BFJ0183-BS1)

Prepared: 10/07/22 Analyzed: 10/10/22

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BFJ0183-DUP1)

Source: 2210001-01

Prepared: 10/07/22 Analyzed: 10/10/22

pH	7.76	pH Units	7.65	1.43	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/12/22 13:42

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 13, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210029

Enclosed are the results of analyses for samples received by Summit Scientific on 10/04/22 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E02@10.0'	2210029-01	Soil	10/04/22 00:00	10/04/22 16:10

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

2210029

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address:

E-Mail: Paulh@fremontenv.com Ethenb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

Phone:

Project Name: Branch 1-3

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	GRD, PRO,ORO	PAHs (915)	EC, SAR, PH Boron	Metals (915)			
1	EO2@10.0'	10/04/22		3			X			X				X	X	X	X	X	X		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/04/22 1610</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10.4.22 1610</u>	Turn Around Time (Check)	Notes: <u>Bill to Noble</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
Temperature Upon Receipt: <u>23.5</u>	Corrected Temperature <u>—</u>	HNO ₃ lot # <u>—</u>	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>—</u>	IR gun #: <u>2</u>				

S₂

Sample Receipt Checklist

S2 Work Order# 2210029

Client: Fremont Env Client Project ID: Branch 1-3

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

X				
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 23.5 Thermometer # 2

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

Additional Comments (if any):

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

10.4.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

E02@10.0'
2210029-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0077	10/04/22	10/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		87.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		133 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	90	50	mg/kg	1	BFJ0078	10/04/22	10/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

E02@10.0'
2210029-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0081	10/05/22	10/06/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		52.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.422	0.0100	mg/L	1	BFJ0086	10/05/22	10/07/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/04/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

E02@10.0'
2210029-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.29	0.240	mg/kg dry	1	BFJ0163	10/07/22	10/09/22	EPA 6020B
Barium	41.6	0.480	"	"	"	"	"	"
Cadmium	ND	0.240	"	"	"	"	"	"
Copper	7.16	0.480	"	"	"	"	"	"
Lead	9.54	0.240	"	"	"	"	"	"
Nickel	7.52	0.480	"	"	"	"	"	"
Selenium	0.717	0.312	"	"	"	"	"	"
Silver	ND	0.0240	"	"	"	"	"	"
Zinc	38.1	0.480	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0255	10/11/22	10/12/22	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	384	0.0601	mg/L dry	1	BFJ0175	10/07/22	10/10/22	EPA 6020B	
Magnesium	460	0.0601	"	"	"	"	"	"	
Sodium	931	0.0601	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.59	0.00100	units	1	BFJ0259	10/11/22	10/11/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

E02@10.0'
2210029-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.3		%	1	BFJ0159	10/07/22	10/10/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.39	0.0100	mmhos/cm	1	BFJ0185	10/07/22	10/12/22	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.70		pH Units	1	BFJ0184	10/07/22	10/13/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0077 - EPA 5030 Soil MS

Blank (BFJ0077-BLK1)

Prepared: 10/04/22 Analyzed: 10/05/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0356		"	0.0400		89.0	50-150			
Surrogate: Toluene-d8	0.0353		"	0.0400		88.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0357		"	0.0400		89.2	50-150			

LCS (BFJ0077-BS1)

Prepared: 10/04/22 Analyzed: 10/05/22

Benzene	0.0927	0.0020	mg/kg	0.125		74.2	70-130			
Toluene	0.0892	0.0050	"	0.125		71.4	70-130			
Ethylbenzene	0.151	0.0050	"	0.125		121	70-130			
m,p-Xylene	0.301	0.010	"	0.250		120	70-130			
o-Xylene	0.134	0.0050	"	0.125		108	70-130			
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.125		125	70-130			
1,3,5-Trimethylbenzene	0.162	0.0050	"	0.125		130	70-130			
Naphthalene	0.120	0.0038	"	0.125		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.7	50-150			
Surrogate: Toluene-d8	0.0364		"	0.0400		91.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0340		"	0.0400		85.0	50-150			

Matrix Spike (BFJ0077-MS1)

Source: 2210029-01

Prepared: 10/04/22 Analyzed: 10/05/22

Benzene	0.0884	0.0020	mg/kg	0.125	ND	70.8	70-130			
Toluene	0.115	0.0050	"	0.125	ND	91.7	70-130			
Ethylbenzene	0.148	0.0050	"	0.125	ND	118	70-130			
m,p-Xylene	0.295	0.010	"	0.250	ND	118	70-130			
o-Xylene	0.132	0.0050	"	0.125	ND	106	70-130			
1,2,4-Trimethylbenzene	0.155	0.0050	"	0.125	ND	124	70-130			
1,3,5-Trimethylbenzene	0.158	0.0050	"	0.125	ND	126	70-130			
Naphthalene	0.129	0.0038	"	0.125	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.6	50-150			
Surrogate: Toluene-d8	0.0359		"	0.0400		89.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0344		"	0.0400		86.0	50-150			

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0077 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0077-MSD1)		Source: 2210029-01			Prepared: 10/04/22 Analyzed: 10/05/22					
Benzene	0.0886	0.0020	mg/kg	0.125	ND	70.8	70-130	0.136	30	
Toluene	0.115	0.0050	"	0.125	ND	91.7	70-130	0.00	30	
Ethylbenzene	0.147	0.0050	"	0.125	ND	118	70-130	0.469	30	
m,p-Xylene	0.297	0.010	"	0.250	ND	119	70-130	0.719	30	
o-Xylene	0.131	0.0050	"	0.125	ND	105	70-130	0.661	30	
1,2,4-Trimethylbenzene	0.158	0.0050	"	0.125	ND	126	70-130	1.77	30	
1,3,5-Trimethylbenzene	0.160	0.0050	"	0.125	ND	128	70-130	1.66	30	
Naphthalene	0.137	0.0038	"	0.125	ND	110	70-130	6.21	30	
Surrogate: 1,2-Dichloroethane-d4		0.0377	"	0.0400		94.4	50-150			
Surrogate: Toluene-d8		0.0358	"	0.0400		89.5	50-150			
Surrogate: 4-Bromofluorobenzene		0.0344	"	0.0400		86.1	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0078 - EPA 3550A

Blank (BFJ0078-BLK1)

Prepared & Analyzed: 10/04/22

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

LCS (BFJ0078-BS1)

Prepared & Analyzed: 10/04/22

C10-C28 (DRO)	566	50	mg/kg	500	113	70-130
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Matrix Spike (BFJ0078-MS1)

Source: 2210045-05

Prepared & Analyzed: 10/04/22

C10-C28 (DRO)	453	50	mg/kg	500	26.3	85.3	70-130
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Matrix Spike Dup (BFJ0078-MSD1)

Source: 2210045-05

Prepared & Analyzed: 10/04/22

C10-C28 (DRO)	448	50	mg/kg	500	26.3	84.4	70-130	1.02	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0081 - EPA 5030 Soil MS

Blank (BFJ0081-BLK1)

Prepared & Analyzed: 10/05/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0177		"	0.0333		53.0	40-150			
Surrogate: Fluoranthene-d10	0.0287		"	0.0333		86.2	40-150			

LCS (BFJ0081-BS1)

Prepared & Analyzed: 10/05/22

Acenaphthene	0.0281	0.00500	mg/kg	0.0333		84.4	31-137			
Anthracene	0.0281	0.00500	"	0.0333		84.2	30-120			
Benzo (a) anthracene	0.0231	0.00500	"	0.0333		69.4	30-120			
Benzo (a) pyrene	0.0223	0.00500	"	0.0333		66.9	30-120			
Benzo (b) fluoranthene	0.0298	0.00500	"	0.0333		89.4	30-120			
Benzo (k) fluoranthene	0.0327	0.00500	"	0.0333		98.2	30-120			
Chrysene	0.0306	0.00500	"	0.0333		91.8	30-120			
Dibenz (a,h) anthracene	0.0167	0.00500	"	0.0333		50.2	30-120			
Fluoranthene	0.0288	0.00500	"	0.0333		86.5	30-120			
Fluorene	0.0293	0.00500	"	0.0333		88.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0164	0.00500	"	0.0333		49.3	30-120			
Pyrene	0.0329	0.00500	"	0.0333		98.6	35-142			
1-Methylnaphthalene	0.0223	0.00500	"	0.0333		66.8	35-142			
2-Methylnaphthalene	0.0340	0.00500	"	0.0333		102	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0262		"	0.0333		78.6	40-150			
Surrogate: Fluoranthene-d10	0.0294		"	0.0333		88.3	40-150			

Summit Scientific



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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0081 - EPA 5030 Soil MS

Matrix Spike (BFJ0081-MS1)			Source: 2210015-01		Prepared & Analyzed: 10/05/22					
Acenaphthene	0.0179	0.00500	mg/kg	0.0333	ND	53.8	31-137			
Anthracene	0.0187	0.00500	"	0.0333	ND	56.0	30-120			
Benzo (a) anthracene	0.0171	0.00500	"	0.0333	ND	51.2	30-120			
Benzo (a) pyrene	0.0159	0.00500	"	0.0333	ND	47.6	30-120			
Benzo (b) fluoranthene	0.0147	0.00500	"	0.0333	ND	44.2	30-120			
Benzo (k) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.1	30-120			
Chrysene	0.0177	0.00500	"	0.0333	ND	53.2	30-120			
Dibenz (a,h) anthracene	0.0146	0.00500	"	0.0333	ND	43.9	30-120			
Fluoranthene	0.0190	0.00500	"	0.0333	ND	56.9	30-120			
Fluorene	0.0196	0.00500	"	0.0333	ND	58.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.3	30-120			
Pyrene	0.0183	0.00500	"	0.0333	ND	55.0	35-142			
1-Methylnaphthalene	0.0143	0.00500	"	0.0333	ND	42.8	15-130			
2-Methylnaphthalene	0.0237	0.00500	"	0.0333	ND	71.2	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0141		"	0.0333		42.4	40-150			
Surrogate: Fluoranthene-d10	0.0196		"	0.0333		58.8	40-150			

Matrix Spike Dup (BFJ0081-MSD1)			Source: 2210015-01		Prepared & Analyzed: 10/05/22					
Acenaphthene	0.0152	0.00500	mg/kg	0.0333	ND	45.7	31-137	16.2	30	
Anthracene	0.0141	0.00500	"	0.0333	ND	42.4	30-120	27.6	30	
Benzo (a) anthracene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	1.46	30	
Benzo (a) pyrene	0.0143	0.00500	"	0.0333	ND	42.8	30-120	10.5	30	
Benzo (b) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	31.0	30	QR-02
Benzo (k) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	5.00	30	
Chrysene	0.0155	0.00500	"	0.0333	ND	46.5	30-120	13.4	30	
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333	ND	40.7	30-120	7.57	30	
Fluoranthene	0.0141	0.00500	"	0.0333	ND	42.2	30-120	29.7	30	
Fluorene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	18.1	30	
Indeno (1,2,3-cd) pyrene	0.0152	0.00500	"	0.0333	ND	45.7	30-120	7.77	30	
Pyrene	0.0135	0.00500	"	0.0333	ND	40.6	35-142	30.2	30	QR-02
1-Methylnaphthalene	0.0141	0.00500	"	0.0333	ND	42.2	15-130	1.55	50	
2-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.3	15-130	25.2	50	
Surrogate: 2-Methylnaphthalene-d10	0.0164		"	0.0333		49.1	40-150			
Surrogate: Fluoranthene-d10	0.0148		"	0.0333		44.4	40-150			

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

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

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

Batch BFJ0086 - EPA 3050B

Blank (BFJ0086-BLK1)

Prepared: 10/05/22 Analyzed: 10/07/22

Boron ND 0.0100 mg/L

LCS (BFJ0086-BS1)

Prepared: 10/05/22 Analyzed: 10/07/22

Boron 5.37 0.0100 mg/L 5.00 107 80-120

Duplicate (BFJ0086-DUP1)

Source: 2209566-01

Prepared: 10/05/22 Analyzed: 10/07/22

Boron 0.312 0.0100 mg/L 0.286 8.66 20

Matrix Spike (BFJ0086-MS1)

Source: 2209566-01

Prepared: 10/05/22 Analyzed: 10/07/22

Boron 5.63 0.0100 mg/L 5.00 0.286 107 75-125

Matrix Spike Dup (BFJ0086-MSD1)

Source: 2209566-01

Prepared: 10/05/22 Analyzed: 10/07/22

Boron 5.39 0.0100 mg/L 5.00 0.286 102 75-125 4.47 25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0163 - EPA 3050B

Blank (BFJ0163-BLK1)

Prepared: 10/07/22 Analyzed: 10/09/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFJ0163-BS1)

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	42.0	0.200	mg/kg wet	40.0	105	80-120
Barium	40.9	0.400	"	40.0	102	80-120
Cadmium	2.01	0.200	"	2.00	101	80-120
Copper	40.4	0.400	"	40.0	101	80-120
Lead	18.7	0.200	"	20.0	93.5	80-120
Nickel	40.6	0.400	"	40.0	102	80-120
Selenium	4.13	0.260	"	4.00	103	80-120
Silver	1.98	0.0200	"	2.00	99.0	80-120
Zinc	41.8	0.400	"	40.0	104	80-120

Duplicate (BFJ0163-DUP1)

Source: 2210001-01

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	1.77	0.213	mg/kg dry	1.74	1.76	20
Barium	57.3	0.426	"	64.0	11.1	20
Cadmium	0.0708	0.213	"	0.0800	12.1	20
Copper	3.44	0.426	"	3.42	0.388	20
Lead	3.44	0.213	"	3.87	11.6	20
Nickel	4.28	0.426	"	4.28	0.173	20
Selenium	0.537	0.277	"	0.557	3.60	20
Silver	0.0163	0.0213	"	0.0180	10.1	20
Zinc	15.9	0.426	"	16.2	1.59	20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0163 - EPA 3050B

Matrix Spike (BFJ0163-MS1)		Source: 2210001-01			Prepared: 10/07/22 Analyzed: 10/09/22					
Arsenic	46.0	0.213	mg/kg dry	42.6	1.74	104	75-125			
Barium	102	0.426	"	42.6	64.0	89.7	75-125			
Cadmium	2.35	0.213	"	2.13	0.0800	107	75-125			
Copper	45.1	0.426	"	42.6	3.42	97.9	75-125			
Lead	23.0	0.213	"	21.3	3.87	89.9	75-125			
Nickel	46.5	0.426	"	42.6	4.28	99.2	75-125			
Selenium	4.68	0.277	"	4.26	0.557	96.8	75-125			
Silver	2.19	0.0213	"	2.13	0.0180	102	75-125			
Zinc	57.7	0.426	"	42.6	16.2	97.5	75-125			

Matrix Spike Dup (BFJ0163-MSD1)		Source: 2210001-01			Prepared: 10/07/22 Analyzed: 10/09/22					
Arsenic	45.9	0.213	mg/kg dry	42.6	1.74	104	75-125	0.245	25	
Barium	105	0.426	"	42.6	64.0	95.5	75-125	2.40	25	
Cadmium	2.39	0.213	"	2.13	0.0800	108	75-125	1.77	25	
Copper	45.2	0.426	"	42.6	3.42	98.1	75-125	0.160	25	
Lead	23.4	0.213	"	21.3	3.87	91.9	75-125	1.79	25	
Nickel	46.6	0.426	"	42.6	4.28	99.5	75-125	0.314	25	
Selenium	4.88	0.277	"	4.26	0.557	102	75-125	4.31	25	
Silver	2.25	0.0213	"	2.13	0.0180	105	75-125	2.41	25	
Zinc	57.6	0.426	"	42.6	16.2	97.2	75-125	0.217	25	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0255 - 3060A Mod

Blank (BFJ0255-BLK1)

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0255-BS1)

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent 21.2 0.30 mg/kg wet 25.0 84.8 80-120

Duplicate (BFJ0255-DUP1)

Source: 2209568-01

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0255-MS1)

Source: 2209568-01

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent 28.0 0.30 mg/kg dry 28.5 ND 98.2 75-125

Matrix Spike Dup (BFJ0255-MSD1)

Source: 2209568-01

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent 30.9 0.30 mg/kg dry 28.5 ND 108 75-125 9.87 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

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

Summit Scientific

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

Batch BFJ0175 - General Preparation

Blank (BFJ0175-BLK1)

Prepared: 10/07/22 Analyzed: 10/10/22

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

LCS (BFJ0175-BS1)

Prepared: 10/07/22 Analyzed: 10/10/22

Calcium	5.90	0.0500	mg/L wet	5.00	118	70-130
Magnesium	5.78	0.0500	"	5.00	116	70-130
Sodium	5.61	0.0500	"	5.00	112	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

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

Summit Scientific

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

Batch BFJ0159 - General Preparation

Duplicate (BFJ0159-DUP1)		Source: 2210017-01		Prepared: 10/07/22 Analyzed: 10/10/22	
% Solids	85.9		%	86.2	0.308 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

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

Summit Scientific

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

Batch BFJ0185 - General Preparation

Blank (BFJ0185-BLK1)

Prepared: 10/07/22 Analyzed: 10/12/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0185-BS1)

Prepared: 10/07/22 Analyzed: 10/12/22

Specific Conductance (EC) 0.145 0.0100 mmhos/cm 0.150 96.5 95-105

Duplicate (BFJ0185-DUP1)

Source: 2210016-11

Prepared: 10/07/22 Analyzed: 10/12/22

Specific Conductance (EC) 0.617 0.0100 mmhos/cm 0.617 0.0486 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

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

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

Batch BFJ0184 - General Preparation

LCS (BFJ0184-BS1)

Prepared: 10/07/22 Analyzed: 10/13/22

pH	9.05	pH Units	9.18	98.6	95-105
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Duplicate (BFJ0184-DUP1)

Source: 2210016-11

Prepared: 10/07/22 Analyzed: 10/13/22

pH	7.14	pH Units	7.08	0.844	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 14:20

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 13, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210060

Enclosed are the results of analyses for samples received by Summit Scientific on 10/05/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E03@10.0'	2210060-01	Soil	10/05/22 00:00	10/05/22 16:00

Summit Scientific

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

Summit Scientific

S₂

2210060

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

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

Phone:

Project Name: Branch 1-3

Sampler Name: J6

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	DRD, GRO, ORO	PAHs (915)	EC, PH, SAR Reson	Metals (915)	
1	E03@10.0'	10/05/22		3			X			X			X	X	X	X	X	X	
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/05/22 1600</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10.5.22 1600</u>	Turn Around Time (Check)	Notes: <u>Bill to Noble</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
Temperature Upon Receipt: <u>20.8</u>	Corrected Temperature <u>—</u>	HNO3 lot # <u>—</u>	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>—</u>	IR gun #: <u>2</u>				

S₂

Sample Receipt Checklist

S2 Work Order# 2210060

Client: Fremont Client Project ID: Branch 1-3

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

X				
---	--	--	--	--

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 20.8 Thermometer # 2

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

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.AT
Custodian Printed Name10.5.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

E03@10.0'
2210060-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0112	10/05/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	13	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		88.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	280	50	mg/kg	1	BFJ0113	10/05/22	10/05/22	EPA 8015M	
C28-C36 (ORO)	62	50	"	"	"	"	"	"	

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		82.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

E03@10.0'
2210060-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0116	10/06/22	10/07/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0125	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: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		51.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.426	0.0100	mg/L	1	BFJ0191	10/08/22	10/09/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/05/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

E03@10.0'
2210060-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.65	0.244	mg/kg dry	1	BFJ0164	10/07/22	10/09/22	EPA 6020B
Barium	89.1	0.488	"	"	"	"	"	"
Cadmium	ND	0.244	"	"	"	"	"	"
Copper	8.39	0.488	"	"	"	"	"	"
Lead	9.29	0.244	"	"	"	"	"	"
Nickel	11.4	0.488	"	"	"	"	"	"
Selenium	0.863	0.317	"	"	"	"	"	"
Silver	ND	0.0244	"	"	"	"	"	"
Zinc	49.9	0.488	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0255	10/11/22	10/12/22	EPA 7196A	

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

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.7	0.0610	mg/L dry	1	BFJ0205	10/10/22	10/12/22	EPA 6020B	
Magnesium	117	0.0610	"	"	"	"	"	"	
Sodium	619	0.0610	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.4	0.00100	units	1	BFJ0307	10/12/22	10/12/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

E03@10.0'
2210060-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.0		%	1	BFJ0200	10/10/22	10/12/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.53	0.0100	mmhos/cm	1	BFJ0227	10/10/22	10/13/22	EPA 120.1	

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

Date Sampled: **10/05/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BFJ0226	10/10/22	10/13/22	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0112 - EPA 5030 Soil MS

Blank (BFJ0112-BLK1)

Prepared: 10/05/22 Analyzed: 10/06/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.2	50-150			
Surrogate: Toluene-d8	0.0353		"	0.0400		88.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400		106	50-150			

LCS (BFJ0112-BS1)

Prepared: 10/05/22 Analyzed: 10/06/22

Benzene	0.110	0.0020	mg/kg	0.125		88.2	70-130			
Toluene	0.114	0.0050	"	0.125		91.0	70-130			
Ethylbenzene	0.150	0.0050	"	0.125		120	70-130			
m,p-Xylene	0.298	0.010	"	0.250		119	70-130			
o-Xylene	0.134	0.0050	"	0.125		107	70-130			
1,2,4-Trimethylbenzene	0.133	0.0050	"	0.125		106	70-130			
1,3,5-Trimethylbenzene	0.136	0.0050	"	0.125		109	70-130			
Naphthalene	0.125	0.0038	"	0.125		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0400		92.9	50-150			
Surrogate: Toluene-d8	0.0359		"	0.0400		89.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0356		"	0.0400		89.0	50-150			

Matrix Spike (BFJ0112-MS1)

Source: 2210065-01

Prepared: 10/05/22 Analyzed: 10/06/22

Benzene	0.111	0.0020	mg/kg	0.125	ND	88.8	70-130			
Toluene	0.114	0.0050	"	0.125	ND	91.3	70-130			
Ethylbenzene	0.148	0.0050	"	0.125	ND	119	70-130			
m,p-Xylene	0.297	0.010	"	0.250	ND	119	70-130			
o-Xylene	0.134	0.0050	"	0.125	ND	107	70-130			
1,2,4-Trimethylbenzene	0.130	0.0050	"	0.125	ND	104	70-130			
1,3,5-Trimethylbenzene	0.134	0.0050	"	0.125	ND	108	70-130			
Naphthalene	0.135	0.0038	"	0.125	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0400		97.3	50-150			
Surrogate: Toluene-d8	0.0361		"	0.0400		90.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0351		"	0.0400		87.7	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

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

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

Batch BFJ0112 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0112-MSD1)		Source: 2210065-01			Prepared: 10/05/22 Analyzed: 10/06/22					
Benzene	0.139	0.0020	mg/kg	0.125	ND	111	70-130	22.1	30	
Toluene	0.142	0.0050	"	0.125	ND	114	70-130	21.8	30	
Ethylbenzene	0.148	0.0050	"	0.125	ND	118	70-130	0.243	30	
m,p-Xylene	0.295	0.010	"	0.250	ND	118	70-130	0.649	30	
o-Xylene	0.132	0.0050	"	0.125	ND	105	70-130	1.63	30	
1,2,4-Trimethylbenzene	0.131	0.0050	"	0.125	ND	105	70-130	0.506	30	
1,3,5-Trimethylbenzene	0.127	0.0050	"	0.125	ND	102	70-130	5.46	30	
Naphthalene	0.140	0.0038	"	0.125	ND	112	70-130	3.01	30	
Surrogate: 1,2-Dichloroethane-d4		0.0376	"	0.0400		94.1	50-150			
Surrogate: Toluene-d8		0.0361	"	0.0400		90.3	50-150			
Surrogate: 4-Bromofluorobenzene		0.0358	"	0.0400		89.5	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0113 - EPA 3550A

Blank (BFJ0113-BLK1)

Prepared: 10/05/22 Analyzed: 10/06/22

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

LCS (BFJ0113-BS1)

Prepared: 10/05/22 Analyzed: 10/06/22

C10-C28 (DRO)	568	50	mg/kg	500	114	70-130
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Matrix Spike (BFJ0113-MS1)

Source: 2210065-01

Prepared: 10/05/22 Analyzed: 10/06/22

C10-C28 (DRO)	555	50	mg/kg	500	34.7	104	70-130
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Matrix Spike Dup (BFJ0113-MSD1)

Source: 2210065-01

Prepared: 10/05/22 Analyzed: 10/06/22

C10-C28 (DRO)	569	50	mg/kg	500	34.7	107	70-130	2.47	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0116 - EPA 5030 Soil MS

Blank (BFJ0116-BLK1)

Prepared & Analyzed: 10/06/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0308		"	0.0333		92.4	40-150			
Surrogate: Fluoranthene-d10	0.0252		"	0.0333		75.5	40-150			

LCS (BFJ0116-BS1)

Prepared & Analyzed: 10/06/22

Acenaphthene	0.0345	0.00500	mg/kg	0.0333	104	31-137
Anthracene	0.0322	0.00500	"	0.0333	96.6	30-120
Benzo (a) anthracene	0.0308	0.00500	"	0.0333	92.3	30-120
Benzo (a) pyrene	0.0320	0.00500	"	0.0333	96.1	30-120
Benzo (b) fluoranthene	0.0322	0.00500	"	0.0333	96.7	30-120
Benzo (k) fluoranthene	0.0339	0.00500	"	0.0333	102	30-120
Chrysene	0.0315	0.00500	"	0.0333	94.4	30-120
Dibenz (a,h) anthracene	0.0324	0.00500	"	0.0333	97.1	30-120
Fluoranthene	0.0315	0.00500	"	0.0333	94.4	30-120
Fluorene	0.0229	0.00500	"	0.0333	68.6	30-120
Indeno (1,2,3-cd) pyrene	0.0314	0.00500	"	0.0333	94.2	30-120
Pyrene	0.0284	0.00500	"	0.0333	85.2	35-142
1-Methylnaphthalene	0.0273	0.00500	"	0.0333	81.8	35-142
2-Methylnaphthalene	0.0271	0.00500	"	0.0333	81.3	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0257		"	0.0333	77.0	40-150
Surrogate: Fluoranthene-d10	0.0309		"	0.0333	92.8	40-150

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0116 - EPA 5030 Soil MS

Matrix Spike (BFJ0116-MS1)

Source: 2210078-01

Prepared & Analyzed: 10/06/22

Acenaphthene	0.0237	0.00500	mg/kg	0.0333	ND	71.1	31-137		
Anthracene	0.0242	0.00500	"	0.0333	ND	72.5	30-120		
Benzo (a) anthracene	0.0244	0.00500	"	0.0333	ND	73.1	30-120		
Benzo (a) pyrene	0.0241	0.00500	"	0.0333	ND	72.2	30-120		
Benzo (b) fluoranthene	0.0240	0.00500	"	0.0333	ND	72.1	30-120		
Benzo (k) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.0	30-120		
Chrysene	0.0238	0.00500	"	0.0333	ND	71.3	30-120		
Dibenz (a,h) anthracene	0.0248	0.00500	"	0.0333	ND	74.5	30-120		
Fluoranthene	0.0244	0.00500	"	0.0333	ND	73.3	30-120		
Fluorene	0.0193	0.00500	"	0.0333	ND	58.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0323	0.00500	"	0.0333	ND	97.0	30-120		
Pyrene	0.0237	0.00500	"	0.0333	ND	71.2	35-142		
1-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.1	15-130		
2-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0221		"	0.0333		66.4	40-150		
Surrogate: Fluoranthene-d10	0.0250		"	0.0333		74.9	40-150		

Matrix Spike Dup (BFJ0116-MSD1)

Source: 2210078-01

Prepared & Analyzed: 10/06/22

Acenaphthene	0.0230	0.00500	mg/kg	0.0333	ND	69.1	31-137	2.72	30
Anthracene	0.0240	0.00500	"	0.0333	ND	71.9	30-120	0.784	30
Benzo (a) anthracene	0.0237	0.00500	"	0.0333	ND	71.1	30-120	2.78	30
Benzo (a) pyrene	0.0244	0.00500	"	0.0333	ND	73.1	30-120	1.16	30
Benzo (b) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.7	30-120	0.731	30
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.9	30-120	0.0676	30
Chrysene	0.0232	0.00500	"	0.0333	ND	69.6	30-120	2.49	30
Dibenz (a,h) anthracene	0.0255	0.00500	"	0.0333	ND	76.5	30-120	2.68	30
Fluoranthene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	7.43	30
Fluorene	0.0162	0.00500	"	0.0333	ND	48.7	30-120	17.4	30
Indeno (1,2,3-cd) pyrene	0.0335	0.00500	"	0.0333	ND	101	30-120	3.59	30
Pyrene	0.0218	0.00500	"	0.0333	ND	65.6	35-142	8.31	30
1-Methylnaphthalene	0.0226	0.00500	"	0.0333	ND	67.9	15-130	0.196	50
2-Methylnaphthalene	0.0217	0.00500	"	0.0333	ND	65.2	15-130	2.98	50
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333		65.0	40-150		
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		69.0	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

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

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

Batch BFJ0191 - EPA 3050B

Blank (BFJ0191-BLK1)

Prepared: 10/08/22 Analyzed: 10/09/22

Boron ND 0.0100 mg/L

LCS (BFJ0191-BS1)

Prepared: 10/08/22 Analyzed: 10/09/22

Boron 5.02 0.0100 mg/L 5.00 100 80-120

Duplicate (BFJ0191-DUP1)

Source: 2210045-03

Prepared: 10/08/22 Analyzed: 10/09/22

Boron 0.157 0.0100 mg/L 0.154 2.13 20

Matrix Spike (BFJ0191-MS1)

Source: 2210045-03

Prepared: 10/08/22 Analyzed: 10/09/22

Boron 5.16 0.0100 mg/L 5.00 0.154 100 75-125

Matrix Spike Dup (BFJ0191-MSD1)

Source: 2210045-03

Prepared: 10/08/22 Analyzed: 10/09/22

Boron 5.27 0.0100 mg/L 5.00 0.154 102 75-125 2.09 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0164 - EPA 3050B

Blank (BFJ0164-BLK1)

Prepared: 10/07/22 Analyzed: 10/09/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFJ0164-BS1)

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	42.1	0.200	mg/kg wet	40.0	105	80-120
Barium	39.1	0.400	"	40.0	97.8	80-120
Cadmium	1.94	0.200	"	2.00	96.8	80-120
Copper	41.9	0.400	"	40.0	105	80-120
Lead	18.8	0.200	"	20.0	93.8	80-120
Nickel	41.1	0.400	"	40.0	103	80-120
Selenium	4.08	0.260	"	4.00	102	80-120
Silver	1.90	0.0200	"	2.00	95.2	80-120
Zinc	42.4	0.400	"	40.0	106	80-120

Duplicate (BFJ0164-DUP1)

Source: 2210016-21

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	3.18	0.233	mg/kg dry	3.35	5.26	20
Barium	34.3	0.466	"	36.3	5.84	20
Cadmium	0.219	0.233	"	0.239	9.03	20
Copper	10.5	0.466	"	10.8	3.11	20
Lead	9.81	0.233	"	10.3	5.19	20
Nickel	8.43	0.466	"	8.86	4.96	20
Selenium	1.06	0.303	"	0.943	11.7	20
Silver	0.0255	0.0233	"	0.0268	4.79	20
Zinc	45.8	0.466	"	47.4	3.49	20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0164 - EPA 3050B

Matrix Spike (BFJ0164-MS1)		Source: 2210016-21			Prepared: 10/07/22 Analyzed: 10/09/22					
Arsenic	46.0	0.233	mg/kg dry	46.6	3.35	91.5	75-125			
Barium	94.1	0.466	"	46.6	36.3	124	75-125			
Cadmium	2.39	0.233	"	2.33	0.239	92.3	75-125			
Copper	53.3	0.466	"	46.6	10.8	91.1	75-125			
Lead	28.6	0.233	"	23.3	10.3	78.4	75-125			
Nickel	52.5	0.466	"	46.6	8.86	93.8	75-125			
Selenium	4.63	0.303	"	4.66	0.943	79.1	75-125			
Silver	2.16	0.0233	"	2.33	0.0268	91.4	75-125			
Zinc	89.4	0.466	"	46.6	47.4	90.1	75-125			

Matrix Spike Dup (BFJ0164-MSD1)		Source: 2210016-21			Prepared: 10/07/22 Analyzed: 10/09/22					
Arsenic	46.6	0.233	mg/kg dry	46.6	3.35	92.8	75-125	1.33	25	
Barium	99.3	0.466	"	46.6	36.3	135	75-125	5.40	25	QM-07
Cadmium	2.56	0.233	"	2.33	0.239	99.6	75-125	6.84	25	
Copper	54.2	0.466	"	46.6	10.8	93.1	75-125	1.79	25	
Lead	30.5	0.233	"	23.3	10.3	86.5	75-125	6.36	25	
Nickel	53.3	0.466	"	46.6	8.86	95.3	75-125	1.35	25	
Selenium	4.86	0.303	"	4.66	0.943	84.0	75-125	4.79	25	
Silver	2.32	0.0233	"	2.33	0.0268	98.6	75-125	7.47	25	
Zinc	90.4	0.466	"	46.6	47.4	92.3	75-125	1.13	25	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0255 - 3060A Mod

Blank (BFJ0255-BLK1)

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0255-BS1)

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent 21.2 0.30 mg/kg wet 25.0 84.8 80-120

Duplicate (BFJ0255-DUP1)

Source: 2209568-01

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0255-MS1)

Source: 2209568-01

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent 28.0 0.30 mg/kg dry 28.5 ND 98.2 75-125

Matrix Spike Dup (BFJ0255-MSD1)

Source: 2209568-01

Prepared: 10/11/22 Analyzed: 10/12/22

Chromium, Hexavalent 30.9 0.30 mg/kg dry 28.5 ND 108 75-125 9.87 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

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

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

Batch BFJ0205 - General Preparation

Blank (BFJ0205-BLK1)

Prepared: 10/10/22 Analyzed: 10/12/22

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

LCS (BFJ0205-BS1)

Prepared: 10/10/22 Analyzed: 10/12/22

Calcium	6.05	0.0500	mg/L wet	5.00	121	70-130
Magnesium	6.39	0.0500	"	5.00	128	70-130
Sodium	5.91	0.0500	"	5.00	118	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

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

Summit Scientific

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

Batch BFJ0200 - General Preparation

Duplicate (BFJ0200-DUP1)

Source: 2210045-03

Prepared: 10/10/22 Analyzed: 10/12/22

% Solids	81.9	%	84.9	3.67	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

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

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

Batch BFJ0227 - General Preparation

Blank (BFJ0227-BLK1)

Prepared: 10/10/22 Analyzed: 10/13/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0227-BS1)

Prepared: 10/10/22 Analyzed: 10/13/22

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 99.8 95-105

Duplicate (BFJ0227-DUP1)

Source: 2210035-50

Prepared: 10/10/22 Analyzed: 10/13/22

Specific Conductance (EC) 1.26 0.0100 mmhos/cm 1.26 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

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

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

Batch BFJ0226 - General Preparation

LCS (BFJ0226-BS1)

Prepared: 10/10/22 Analyzed: 10/13/22

pH	9.06	pH Units	9.18	98.7	95-105
----	------	----------	------	------	--------

Duplicate (BFJ0226-DUP1)

Source: 2210035-50

Prepared: 10/10/22 Analyzed: 10/13/22

pH	7.74	pH Units	7.74	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 15:14

Notes and Definitions

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.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 13, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210084

Enclosed are the results of analyses for samples received by Summit Scientific on 10/06/22 16:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B03@12.0'	2210084-01	Soil	10/06/22 00:00	10/06/22 16:04
N01@10.0'	2210084-02	Soil	10/06/22 00:00	10/06/22 16:04

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

2210084

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henahan

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

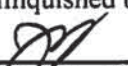

Phone:

Project Name: Branch 1-3

Sampler Name: J6

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBS(915)	GRD, DRD, ORD	PAHS(915)	EC, PH, SAR	Metals(915)			
1	B03@12.0'	10/06/22		3			X			X				X	X	X	X	X	X		
2	N01@10.0'	↓		3			↓			↓				X	X	X	X	X	X		
3	B501@10.0'	↓		2			↓			↓											HOLD!!!
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: 	Date/Time: 10/06/22 1604	Received by: 	Date/Time: 10/6/22 1604	Turn Around Time (Check)	Notes: Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours	
				24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
Temperature Upon Receipt: 22.7	Corrected Temperature: <input type="text"/>	HNO3 lot # <input type="text"/>	Sample Integrity:	Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
IR gun correction: <input type="text"/>	IR gun #: 2				

S₂

2210084

Sample Receipt Checklist

S2 Work Order# _____

Client: Noble / Fremont Client Project ID: Branch 1-3

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

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 22.7 Thermometer # 2

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

Additional Comments (if any):

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

Jack Breer
Custodian Printed Name

10/6/22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

B03@12.0'
2210084-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.020	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.0070	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.1	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		148 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		134 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	82	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 00:00**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

B03@12.0'
2210084-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0153	10/07/22	10/08/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		50.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.277	0.0100	mg/L	1	BFJ0209	10/10/22	10/11/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/06/22 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

B03@12.0'
2210084-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	7.96	0.241	mg/kg dry	1	BFJ0164	10/07/22	10/09/22	EPA 6020B
Barium	87.9	0.483	"	"	"	"	"	"
Cadmium	ND	0.241	"	"	"	"	"	"
Copper	15.6	0.483	"	"	"	"	"	"
Lead	13.3	0.241	"	"	"	"	"	"
Nickel	17.0	0.483	"	"	"	"	"	"
Selenium	1.17	0.314	"	"	"	"	"	"
Silver	0.0301	0.0241	"	"	"	"	"	"
Zinc	74.4	0.483	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/06/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0309	10/12/22	10/13/22	EPA 7196A	

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

Date Sampled: 10/06/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.1	0.0603	mg/L dry	1	BFJ0205	10/10/22	10/12/22	EPA 6020B	
Magnesium	17.8	0.0603	"	"	"	"	"	"	
Sodium	134	0.0603	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/06/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.73	0.00100	units	1	BFJ0307	10/12/22	10/12/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/06/22 00:00

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

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

B03@12.0'
2210084-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.9	%	1	BFJ0238	10/10/22	10/12/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.701	0.0100	mmhos/cm	1	BFJ0227	10/10/22	10/13/22	EPA 120.1	

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

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BFJ0226	10/10/22	10/13/22	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

N01@10.0'
2210084-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.028	0.0020	mg/kg	1	BFJ0151	10/06/22	10/06/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.028	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.036	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.0082	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	12	0.50	"	"	"	"	"	"	

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		147 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	85	50	mg/kg	1	BFJ0152	10/06/22	10/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

N01@10.0'
2210084-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0153	10/07/22	10/08/22	EPA 8270D SIM	
Anthracene	0.00973	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00700	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	0.00583	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0145	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0415	0.00500	"	"	"	"	"	"	

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		62.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.382	0.0100	mg/L	1	BFJ0209	10/10/22	10/11/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/06/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

N01@10.0'
2210084-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	6.04	0.236	mg/kg dry	1	BFJ0164	10/07/22	10/09/22	EPA 6020B
Barium	67.8	0.472	"	"	"	"	"	"
Cadmium	ND	0.236	"	"	"	"	"	"
Copper	6.70	0.472	"	"	"	"	"	"
Lead	7.44	0.236	"	"	"	"	"	"
Nickel	9.24	0.472	"	"	"	"	"	"
Selenium	0.743	0.307	"	"	"	"	"	"
Silver	ND	0.0236	"	"	"	"	"	"
Zinc	39.2	0.472	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0309	10/12/22	10/13/22	EPA 7196A	

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

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.0	0.0590	mg/L dry	1	BFJ0205	10/10/22	10/12/22	EPA 6020B	
Magnesium	36.7	0.0590	"	"	"	"	"	"	
Sodium	177	0.0590	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.54	0.00100	units	1	BFJ0307	10/12/22	10/12/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

N01@10.0'
2210084-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.7		%	1	BFJ0238	10/10/22	10/12/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.941	0.0100	mmhos/cm	1	BFJ0227	10/10/22	10/13/22	EPA 120.1	

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

Date Sampled: **10/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BFJ0226	10/10/22	10/13/22	EPA 9045D	

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0151 - EPA 5030 Soil MS

Blank (BFJ0151-BLK1)

Prepared & Analyzed: 10/06/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0400		98.4	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0419		"	0.0400		105	50-150			

LCS (BFJ0151-BS1)

Prepared: 10/06/22 Analyzed: 10/07/22

Benzene	0.0946	0.0020	mg/kg	0.100		94.6	70-130			
Toluene	0.107	0.0050	"	0.100		107	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.243	0.010	"	0.200		121	70-130			
o-Xylene	0.0992	0.0050	"	0.100		99.2	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
Naphthalene	0.113	0.0038	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	50-150			

Matrix Spike (BFJ0151-MS1)

Source: 2210095-01

Prepared: 10/06/22 Analyzed: 10/07/22

Benzene	0.0927	0.0020	mg/kg	0.100	ND	92.7	70-130			
Toluene	0.105	0.0050	"	0.100	ND	105	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.239	0.010	"	0.200	ND	119	70-130			
o-Xylene	0.0964	0.0050	"	0.100	ND	96.4	70-130			
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
Naphthalene	0.0904	0.0038	"	0.100	ND	90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		99.9	50-150			

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

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

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

Batch BFJ0151 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0151-MSD1)	Source: 2210095-01			Prepared: 10/06/22 Analyzed: 10/07/22						
Benzene	0.0936	0.0020	mg/kg	0.100	ND	93.6	70-130	0.999	30	
Toluene	0.106	0.0050	"	0.100	ND	106	70-130	1.45	30	
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	0.115	30	
m,p-Xylene	0.241	0.010	"	0.200	ND	120	70-130	0.851	30	
o-Xylene	0.0950	0.0050	"	0.100	ND	95.0	70-130	1.41	30	
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	1.69	30	
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	0.731	30	
Naphthalene	0.0940	0.0038	"	0.100	ND	94.0	70-130	3.97	30	
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0152 - EPA 3550A

Blank (BFJ0152-BLK1)

Prepared: 10/06/22 Analyzed: 10/07/22

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

LCS (BFJ0152-BS1)

Prepared: 10/06/22 Analyzed: 10/07/22

C10-C28 (DRO)	558	50	mg/kg	500	112	70-130
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Matrix Spike (BFJ0152-MS1)

Source: 2210095-01

Prepared: 10/06/22 Analyzed: 10/07/22

C10-C28 (DRO)	597	50	mg/kg	500	39.5	111	70-130
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Matrix Spike Dup (BFJ0152-MSD1)

Source: 2210095-01

Prepared: 10/06/22 Analyzed: 10/07/22

C10-C28 (DRO)	529	50	mg/kg	500	39.5	97.9	70-130	12.1	20
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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

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 BFJ0153 - EPA 5030 Soil MS

Blank (BFJ0153-BLK1)

Prepared & Analyzed: 10/07/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0165		"	0.0333		49.5	40-150			
Surrogate: Fluoranthene-d10	0.0367		"	0.0333		110	40-150			

LCS (BFJ0153-BS1)

Prepared & Analyzed: 10/07/22

Acenaphthene	0.0319	0.00500	mg/kg	0.0333		95.8	31-137			
Anthracene	0.0315	0.00500	"	0.0333		94.5	30-120			
Benzo (a) anthracene	0.0265	0.00500	"	0.0333		79.5	30-120			
Benzo (a) pyrene	0.0253	0.00500	"	0.0333		75.8	30-120			
Benzo (b) fluoranthene	0.0332	0.00500	"	0.0333		99.6	30-120			
Benzo (k) fluoranthene	0.0356	0.00500	"	0.0333		107	30-120			
Chrysene	0.0342	0.00500	"	0.0333		103	30-120			
Dibenz (a,h) anthracene	0.0196	0.00500	"	0.0333		58.8	30-120			
Fluoranthene	0.0320	0.00500	"	0.0333		95.9	30-120			
Fluorene	0.0331	0.00500	"	0.0333		99.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0295	0.00500	"	0.0333		88.5	30-120			
Pyrene	0.0371	0.00500	"	0.0333		111	35-142			
1-Methylnaphthalene	0.0293	0.00500	"	0.0333		88.0	35-142			
2-Methylnaphthalene	0.0218	0.00500	"	0.0333		65.4	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0323		"	0.0333		96.9	40-150			
Surrogate: Fluoranthene-d10	0.0296		"	0.0333		88.8	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0153 - EPA 5030 Soil MS

Matrix Spike (BFJ0153-MS1)

Source: 2210056-01

Prepared & Analyzed: 10/07/22

Acenaphthene	0.0235	0.00500	mg/kg	0.0333	ND	70.4	31-137		
Anthracene	0.0216	0.00500	"	0.0333	ND	64.9	30-120		
Benzo (a) anthracene	0.0229	0.00500	"	0.0333	ND	68.6	30-120		
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.2	30-120		
Benzo (b) fluoranthene	0.0215	0.00500	"	0.0333	ND	64.4	30-120		
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.5	30-120		
Chrysene	0.0235	0.00500	"	0.0333	ND	70.6	30-120		
Dibenz (a,h) anthracene	0.0127	0.00500	"	0.0333	ND	38.0	30-120		
Fluoranthene	0.0230	0.00500	"	0.0333	ND	69.0	30-120		
Fluorene	0.0231	0.00500	"	0.0333	ND	69.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0184	0.00500	"	0.0333	ND	55.2	30-120		
Pyrene	0.0251	0.00500	"	0.0333	ND	75.3	35-142		
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130		
2-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.8	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0221		"	0.0333		66.2	40-150		
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		69.0	40-150		

Matrix Spike Dup (BFJ0153-MSD1)

Source: 2210056-01

Prepared & Analyzed: 10/07/22

Acenaphthene	0.0231	0.00500	mg/kg	0.0333	ND	69.2	31-137	1.78	30
Anthracene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	1.41	30
Benzo (a) anthracene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	2.06	30
Benzo (a) pyrene	0.0174	0.00500	"	0.0333	ND	52.3	30-120	1.61	30
Benzo (b) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	5.12	30
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333	ND	60.4	30-120	4.99	30
Chrysene	0.0231	0.00500	"	0.0333	ND	69.3	30-120	1.83	30
Dibenz (a,h) anthracene	0.0128	0.00500	"	0.0333	ND	38.5	30-120	1.35	30
Fluoranthene	0.0222	0.00500	"	0.0333	ND	66.7	30-120	3.37	30
Fluorene	0.0223	0.00500	"	0.0333	ND	66.8	30-120	3.82	30
Indeno (1,2,3-cd) pyrene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	0.928	30
Pyrene	0.0237	0.00500	"	0.0333	ND	71.2	35-142	5.50	30
1-Methylnaphthalene	0.0203	0.00500	"	0.0333	ND	60.8	15-130	4.30	50
2-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.1	15-130	3.37	50
Surrogate: 2-Methylnaphthalene-d10	0.0220		"	0.0333		66.0	40-150		
Surrogate: Fluoranthene-d10	0.0231		"	0.0333		69.2	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

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

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

Batch BFJ0209 - EPA 3050B

Blank (BFJ0209-BLK1)

Prepared: 10/10/22 Analyzed: 10/11/22

Boron ND 0.0100 mg/L

LCS (BFJ0209-BS1)

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 5.84 0.0100 mg/L 5.00 117 80-120

Duplicate (BFJ0209-DUP1)

Source: 2210035-39

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 1.10 0.0100 mg/L 1.12 1.57 20

Matrix Spike (BFJ0209-MS1)

Source: 2210035-39

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 6.76 0.0100 mg/L 5.00 1.12 113 75-125

Matrix Spike Dup (BFJ0209-MSD1)

Source: 2210035-39

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 6.73 0.0100 mg/L 5.00 1.12 112 75-125 0.484 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3
Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0164 - EPA 3050B

Blank (BFJ0164-BLK1)

Prepared: 10/07/22 Analyzed: 10/09/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFJ0164-BS1)

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	42.1	0.200	mg/kg wet	40.0	105	80-120
Barium	39.1	0.400	"	40.0	97.8	80-120
Cadmium	1.94	0.200	"	2.00	96.8	80-120
Copper	41.9	0.400	"	40.0	105	80-120
Lead	18.8	0.200	"	20.0	93.8	80-120
Nickel	41.1	0.400	"	40.0	103	80-120
Selenium	4.08	0.260	"	4.00	102	80-120
Silver	1.90	0.0200	"	2.00	95.2	80-120
Zinc	42.4	0.400	"	40.0	106	80-120

Duplicate (BFJ0164-DUP1)

Source: 2210016-21

Prepared: 10/07/22 Analyzed: 10/09/22

Arsenic	3.18	0.233	mg/kg dry	3.35	5.26	20
Barium	34.3	0.466	"	36.3	5.84	20
Cadmium	0.219	0.233	"	0.239	9.03	20
Copper	10.5	0.466	"	10.8	3.11	20
Lead	9.81	0.233	"	10.3	5.19	20
Nickel	8.43	0.466	"	8.86	4.96	20
Selenium	1.06	0.303	"	0.943	11.7	20
Silver	0.0255	0.0233	"	0.0268	4.79	20
Zinc	45.8	0.466	"	47.4	3.49	20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0164 - EPA 3050B

Matrix Spike (BFJ0164-MS1)		Source: 2210016-21			Prepared: 10/07/22 Analyzed: 10/09/22					
Arsenic	46.0	0.233	mg/kg dry	46.6	3.35	91.5	75-125			
Barium	94.1	0.466	"	46.6	36.3	124	75-125			
Cadmium	2.39	0.233	"	2.33	0.239	92.3	75-125			
Copper	53.3	0.466	"	46.6	10.8	91.1	75-125			
Lead	28.6	0.233	"	23.3	10.3	78.4	75-125			
Nickel	52.5	0.466	"	46.6	8.86	93.8	75-125			
Selenium	4.63	0.303	"	4.66	0.943	79.1	75-125			
Silver	2.16	0.0233	"	2.33	0.0268	91.4	75-125			
Zinc	89.4	0.466	"	46.6	47.4	90.1	75-125			

Matrix Spike Dup (BFJ0164-MSD1)		Source: 2210016-21			Prepared: 10/07/22 Analyzed: 10/09/22					
Arsenic	46.6	0.233	mg/kg dry	46.6	3.35	92.8	75-125	1.33	25	QM-07
Barium	99.3	0.466	"	46.6	36.3	135	75-125	5.40	25	
Cadmium	2.56	0.233	"	2.33	0.239	99.6	75-125	6.84	25	
Copper	54.2	0.466	"	46.6	10.8	93.1	75-125	1.79	25	
Lead	30.5	0.233	"	23.3	10.3	86.5	75-125	6.36	25	
Nickel	53.3	0.466	"	46.6	8.86	95.3	75-125	1.35	25	
Selenium	4.86	0.303	"	4.66	0.943	84.0	75-125	4.79	25	
Silver	2.32	0.0233	"	2.33	0.0268	98.6	75-125	7.47	25	
Zinc	90.4	0.466	"	46.6	47.4	92.3	75-125	1.13	25	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0309 - 3060A Mod

Blank (BFJ0309-BLK1)

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0309-BS1)

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 27.7 0.30 mg/kg wet 25.0 111 80-120

Duplicate (BFJ0309-DUP1)

Source: 2210015-01

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0309-MS1)

Source: 2210015-01

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 32.5 0.30 mg/kg dry 29.7 ND 109 75-125

Matrix Spike Dup (BFJ0309-MSD1)

Source: 2210015-01

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 31.7 0.30 mg/kg dry 29.7 ND 107 75-125 2.59 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

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

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

Batch BFJ0205 - General Preparation

Blank (BFJ0205-BLK1)

Prepared: 10/10/22 Analyzed: 10/12/22

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

LCS (BFJ0205-BS1)

Prepared: 10/10/22 Analyzed: 10/12/22

Calcium	6.05	0.0500	mg/L wet	5.00	121	70-130
Magnesium	6.39	0.0500	"	5.00	128	70-130
Sodium	5.91	0.0500	"	5.00	118	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

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

Summit Scientific

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

Batch BFJ0238 - General Preparation

Duplicate (BFJ0238-DUP1)

Source: 2209456-06

Prepared: 10/10/22 Analyzed: 10/12/22

% Solids	82.5	%		83.1		0.757	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

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

Summit Scientific

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

Batch BFJ0227 - General Preparation

Blank (BFJ0227-BLK1)

Prepared: 10/10/22 Analyzed: 10/13/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0227-BS1)

Prepared: 10/10/22 Analyzed: 10/13/22

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 99.8 95-105

Duplicate (BFJ0227-DUP1)

Source: 2210035-50

Prepared: 10/10/22 Analyzed: 10/13/22

Specific Conductance (EC) 1.26 0.0100 mmhos/cm 1.26 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

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

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

Batch BFJ0226 - General Preparation

LCS (BFJ0226-BS1)

Prepared: 10/10/22 Analyzed: 10/13/22

pH	9.06	pH Units	9.18	98.7	95-105
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Duplicate (BFJ0226-DUP1)

Source: 2210035-50

Prepared: 10/10/22 Analyzed: 10/13/22

pH	7.74	pH Units	7.74	0.00	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/13/22 16:15

Notes and Definitions

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.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 17, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210106

Enclosed are the results of analyses for samples received by Summit Scientific on 10/07/22 14:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B04@13.0'	2210106-01	Soil	10/07/22 00:00	10/07/22 14:10
B05@13.0'	2210106-02	Soil	10/07/22 00:00	10/07/22 14:10
B06@12.0'	2210106-03	Soil	10/07/22 00:00	10/07/22 14:10

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

2210106

S₂

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

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henchan

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

Phone:

Project Name: Branch 1-3

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	GR0, OR0, DR0	PAMs (915)	EC, PH, SAR Boron	Metals (915)		
1	B04@13.0'	10/07/22		3			X			X				X	X	X	X	X		
2	B05@13.0'	↓		↓			↓			↓				↓	↓	↓	↓	↓		
3	B06@12.0'	↓		↓			↓			↓				↓	↓	↓	↓	↓		
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/07/22 1410</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/7/22 1410</u>	Turn Around Time (Check)	Notes: <u>Bill to Noble</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
Temperature Upon Receipt: <u>16.4</u>	Corrected Temperature <u>—</u>	HNO ₃ lot # <u>—</u>	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>—</u>	IR gun #: <u>2</u>				

S₂

Sample Receipt Checklist

S2 Work Order# 2210106Client: Noble / Fremont Client Project ID: Branch 1-3

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

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 16.4 Thermometer # 2

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

Additional Comments (if any):

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

10/7/22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B04@13.0'
2210106-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0186	10/07/22	10/08/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0187	10/07/22	10/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B04@13.0'
2210106-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0197	10/10/22	10/10/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		89.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.206	0.0100	mg/L	1	BFJ0209	10/10/22	10/11/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/07/22 00:00**

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



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B04@13.0'
2210106-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.86	0.243	mg/kg dry	1	BFJ0207	10/10/22	10/10/22	EPA 6020B
Barium	40.1	0.486	"	"	"	"	"	"
Cadmium	ND	0.243	"	"	"	"	"	"
Copper	8.04	0.486	"	"	"	"	"	"
Lead	18.8	0.243	"	"	"	"	"	"
Nickel	8.47	0.486	"	"	"	"	"	"
Selenium	ND	0.316	"	"	"	"	"	"
Silver	0.0384	0.0243	"	"	"	"	"	"
Zinc	36.8	0.486	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0311	10/12/22	10/13/22	EPA 7196A	

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

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.9	0.0607	mg/L dry	1	BFJ0242	10/10/22	10/12/22	EPA 6020B	
Magnesium	37.3	0.0607	"	"	"	"	"	"	
Sodium	263	0.0607	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.79	0.00100	units	1	BFJ0374	10/14/22	10/14/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B04@13.0'
2210106-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.3		%	1	BFJ0288	10/12/22	10/13/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.38	0.0100	mmhos/cm	1	BFJ0266	10/11/22	10/14/22	EPA 120.1	

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

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BFJ0265	10/11/22	10/14/22	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B05@13.0'
2210106-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0186	10/07/22	10/08/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/07/22 00:00**

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

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0187	10/07/22	10/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/07/22 00:00**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B05@13.0'
2210106-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0197	10/10/22	10/10/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		90.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.253	0.0100	mg/L	1	BFJ0209	10/10/22	10/11/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/07/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B05@13.0'
2210106-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.72	0.243	mg/kg dry	1	BFJ0207	10/10/22	10/10/22	EPA 6020B
Barium	67.9	0.485	"	"	"	"	"	"
Cadmium	ND	0.243	"	"	"	"	"	"
Copper	6.87	0.485	"	"	"	"	"	"
Lead	15.7	0.243	"	"	"	"	"	"
Nickel	8.31	0.485	"	"	"	"	"	"
Selenium	ND	0.315	"	"	"	"	"	"
Silver	0.0393	0.0243	"	"	"	"	"	"
Zinc	35.4	0.485	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/07/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0311	10/12/22	10/13/22	EPA 7196A	

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

Date Sampled: 10/07/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8.74	0.0607	mg/L dry	1	BFJ0242	10/10/22	10/12/22	EPA 6020B	
Magnesium	15.3	0.0607	"	"	"	"	"	"	
Sodium	162	0.0607	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/07/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.65	0.00100	units	1	BFJ0374	10/14/22	10/14/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B05@13.0'
2210106-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.4		%	1	BFJ0288	10/12/22	10/13/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.767	0.0100	mmhos/cm	1	BFJ0266	10/11/22	10/14/22	EPA 120.1	

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

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BFJ0265	10/11/22	10/14/22	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B06@12.0'
2210106-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0186	10/07/22	10/08/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0187	10/07/22	10/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/07/22 00:00**

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

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B06@12.0'
2210106-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0197	10/10/22	10/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		70.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.384	0.0100	mg/L	1	BFJ0209	10/10/22	10/11/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/07/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B06@12.0'
2210106-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.65	0.242	mg/kg dry	1	BFJ0207	10/10/22	10/10/22	EPA 6020B
Barium	64.5	0.483	"	"	"	"	"	"
Cadmium	0.253	0.242	"	"	"	"	"	"
Copper	8.06	0.483	"	"	"	"	"	"
Lead	16.1	0.242	"	"	"	"	"	"
Nickel	8.20	0.483	"	"	"	"	"	"
Selenium	ND	0.314	"	"	"	"	"	"
Silver	0.0372	0.0242	"	"	"	"	"	"
Zinc	38.0	0.483	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0311	10/12/22	10/13/22	EPA 7196A	

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

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.9	0.0604	mg/L dry	1	BFJ0242	10/10/22	10/12/22	EPA 6020B	
Magnesium	29.6	0.0604	"	"	"	"	"	"	
Sodium	289	0.0604	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.33	0.00100	units	1	BFJ0374	10/14/22	10/14/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/07/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

B06@12.0'
2210106-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.8	%	1	BFJ0288	10/12/22	10/13/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.43	0.0100	mmhos/cm	1	BFJ0266	10/11/22	10/14/22	EPA 120.1	

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

Date Sampled: **10/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BFJ0265	10/11/22	10/14/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0186 - EPA 5030 Soil MS

Blank (BFJ0186-BLK1)

Prepared: 10/07/22 Analyzed: 10/08/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0400		98.5	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

LCS (BFJ0186-BS1)

Prepared: 10/07/22 Analyzed: 10/08/22

Benzene	0.0937	0.0020	mg/kg	0.100		93.7	70-130			
Toluene	0.106	0.0050	"	0.100		106	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.238	0.010	"	0.200		119	70-130			
o-Xylene	0.0945	0.0050	"	0.100		94.5	70-130			
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.112	0.0050	"	0.100		112	70-130			
Naphthalene	0.113	0.0038	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.6	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.1	50-150			

Matrix Spike (BFJ0186-MS1)

Source: 2210106-01

Prepared: 10/07/22 Analyzed: 10/08/22

Benzene	0.0935	0.0020	mg/kg	0.100	ND	93.5	70-130			
Toluene	0.106	0.0050	"	0.100	ND	106	70-130			
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
m,p-Xylene	0.233	0.010	"	0.200	ND	116	70-130			
o-Xylene	0.0936	0.0050	"	0.100	ND	93.6	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
Naphthalene	0.0947	0.0038	"	0.100	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

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

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

Batch BFJ0186 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0186-MSD1)		Source: 2210106-01			Prepared: 10/07/22 Analyzed: 10/08/22					
Benzene	0.0922	0.0020	mg/kg	0.100	ND	92.2	70-130	1.39	30	
Toluene	0.106	0.0050	"	0.100	ND	106	70-130	0.707	30	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	0.909	30	
m,p-Xylene	0.237	0.010	"	0.200	ND	119	70-130	1.94	30	
o-Xylene	0.0946	0.0050	"	0.100	ND	94.6	70-130	1.15	30	
1,2,4-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	1.35	30	
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	2.51	30	
Naphthalene	0.126	0.0038	"	0.100	ND	126	70-130	28.2	30	
Surrogate: 1,2-Dichloroethane-d4		0.0418	"	0.0400		105	50-150			
Surrogate: Toluene-d8		0.0410	"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene		0.0400	"	0.0400		99.9	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0187 - EPA 3550A

Blank (BFJ0187-BLK1)

Prepared: 10/07/22 Analyzed: 10/08/22

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

LCS (BFJ0187-BS1)

Prepared: 10/07/22 Analyzed: 10/08/22

C10-C28 (DRO)	505	50	mg/kg	500	101	70-130
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Matrix Spike (BFJ0187-MS1)

Source: 2210106-01

Prepared: 10/07/22 Analyzed: 10/08/22

C10-C28 (DRO)	551	50	mg/kg	500	18.1	107	70-130
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Matrix Spike Dup (BFJ0187-MSD1)

Source: 2210106-01

Prepared: 10/07/22 Analyzed: 10/08/22

C10-C28 (DRO)	574	50	mg/kg	500	18.1	111	70-130	4.03	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0197 - EPA 5030 Soil MS

Blank (BFJ0197-BLK1)

Prepared & Analyzed: 10/10/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0410		"	0.0333		123	40-150			
Surrogate: Fluoranthene-d10	0.0248		"	0.0333		74.5	40-150			

LCS (BFJ0197-BS1)

Prepared & Analyzed: 10/10/22

Acenaphthene	0.0226	0.00500	mg/kg	0.0333		67.8	31-137			
Anthracene	0.0302	0.00500	"	0.0333		90.7	30-120			
Benzo (a) anthracene	0.0332	0.00500	"	0.0333		99.7	30-120			
Benzo (a) pyrene	0.0282	0.00500	"	0.0333		84.7	30-120			
Benzo (b) fluoranthene	0.0284	0.00500	"	0.0333		85.3	30-120			
Benzo (k) fluoranthene	0.0275	0.00500	"	0.0333		82.5	30-120			
Chrysene	0.0316	0.00500	"	0.0333		94.9	30-120			
Dibenz (a,h) anthracene	0.0350	0.00500	"	0.0333		105	30-120			
Fluoranthene	0.0256	0.00500	"	0.0333		76.9	30-120			
Fluorene	0.0196	0.00500	"	0.0333		58.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0280	0.00500	"	0.0333		83.9	30-120			
Pyrene	0.0274	0.00500	"	0.0333		82.2	35-142			
1-Methylnaphthalene	0.0391	0.00500	"	0.0333		117	35-142			
2-Methylnaphthalene	0.0411	0.00500	"	0.0333		123	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0394		"	0.0333		118	40-150			
Surrogate: Fluoranthene-d10	0.0256		"	0.0333		76.8	40-150			

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0197 - EPA 5030 Soil MS

Matrix Spike (BFJ0197-MS1)

Source: 2210106-01

Prepared & Analyzed: 10/10/22

Acenaphthene	0.0197	0.00500	mg/kg	0.0333	ND	59.2	31-137				
Anthracene	0.0203	0.00500	"	0.0333	ND	61.0	30-120				
Benzo (a) anthracene	0.0210	0.00500	"	0.0333	ND	62.9	30-120				
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.0	30-120				
Benzo (b) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.5	30-120				
Benzo (k) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120				
Chrysene	0.0190	0.00500	"	0.0333	ND	56.9	30-120				
Dibenz (a,h) anthracene	0.0213	0.00500	"	0.0333	ND	64.0	30-120				
Fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	30-120				
Fluorene	0.0152	0.00500	"	0.0333	ND	45.6	30-120				
Indeno (1,2,3-cd) pyrene	0.0297	0.00500	"	0.0333	ND	89.1	30-120				
Pyrene	0.0216	0.00500	"	0.0333	ND	64.9	35-142				
1-Methylnaphthalene	0.0274	0.00500	"	0.0333	ND	82.2	15-130				
2-Methylnaphthalene	0.0280	0.00500	"	0.0333	ND	84.0	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0280		"	0.0333		84.1	40-150				
Surrogate: Fluoranthene-d10	0.0209		"	0.0333		62.8	40-150				

Matrix Spike Dup (BFJ0197-MSD1)

Source: 2210106-01

Prepared & Analyzed: 10/10/22

Acenaphthene	0.0169	0.00500	mg/kg	0.0333	ND	50.6	31-137	15.6	30
Anthracene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	4.93	30
Benzo (a) anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	1.99	30
Benzo (a) pyrene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	11.2	30
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	0.585	30
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333	ND	53.9	30-120	15.0	30
Chrysene	0.0195	0.00500	"	0.0333	ND	58.5	30-120	2.71	30
Dibenz (a,h) anthracene	0.0203	0.00500	"	0.0333	ND	60.8	30-120	5.19	30
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.7	30-120	4.35	30
Fluorene	0.0119	0.00500	"	0.0333	ND	35.6	30-120	24.6	30
Indeno (1,2,3-cd) pyrene	0.0276	0.00500	"	0.0333	ND	82.9	30-120	7.20	30
Pyrene	0.0193	0.00500	"	0.0333	ND	57.9	35-142	11.3	30
1-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.0	15-130	19.0	50
2-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.7	15-130	15.9	50
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333		69.8	40-150		
Surrogate: Fluoranthene-d10	0.0231		"	0.0333		69.4	40-150		

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

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

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

Batch BFJ0209 - EPA 3050B

Blank (BFJ0209-BLK1)

Prepared: 10/10/22 Analyzed: 10/11/22

Boron ND 0.0100 mg/L

LCS (BFJ0209-BS1)

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 5.84 0.0100 mg/L 5.00 117 80-120

Duplicate (BFJ0209-DUP1)

Source: 2210035-39

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 1.10 0.0100 mg/L 1.12 1.57 20

Matrix Spike (BFJ0209-MS1)

Source: 2210035-39

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 6.76 0.0100 mg/L 5.00 1.12 113 75-125

Matrix Spike Dup (BFJ0209-MSD1)

Source: 2210035-39

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 6.73 0.0100 mg/L 5.00 1.12 112 75-125 0.484 25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0207 - EPA 3050B

Blank (BFJ0207-BLK1)

Prepared & Analyzed: 10/10/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFJ0207-BS1)

Prepared & Analyzed: 10/10/22

Arsenic	36.0	0.200	mg/kg wet	40.0	90.1	80-120
Barium	36.5	0.400	"	40.0	91.1	80-120
Cadmium	1.82	0.200	"	2.00	90.8	80-120
Copper	37.5	0.400	"	40.0	93.8	80-120
Lead	18.4	0.200	"	20.0	92.1	80-120
Nickel	35.9	0.400	"	40.0	89.7	80-120
Selenium	3.36	0.260	"	4.00	83.9	80-120
Silver	1.83	0.0200	"	2.00	91.3	80-120
Zinc	36.3	0.400	"	40.0	90.8	80-120

Duplicate (BFJ0207-DUP1)

Source: 2210105-01

Prepared & Analyzed: 10/10/22

Arsenic	1.34	0.215	mg/kg dry	1.37	1.84	20
Barium	91.7	0.431	"	90.5	1.33	20
Cadmium	0.246	0.215	"	0.247	0.524	20
Copper	5.13	0.431	"	5.18	0.885	20
Lead	7.30	0.215	"	7.31	0.0649	20
Nickel	5.67	0.431	"	5.71	0.704	20
Selenium	ND	0.280	"	ND		20
Silver	0.0439	0.0215	"	0.0439	0.00	20
Zinc	20.2	0.431	"	20.4	0.819	20

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFJ0207 - EPA 3050B

Matrix Spike (BFJ0207-MS1)

Source: 2210105-01

Prepared & Analyzed: 10/10/22

Arsenic	12.9	0.215	mg/kg dry	43.1	1.37	26.7	75-125			QM-05
Barium	124	0.431	"	43.1	90.5	77.1	75-125			
Cadmium	2.11	0.215	"	2.15	0.247	86.3	75-125			
Copper	31.3	0.431	"	43.1	5.18	60.7	75-125			QM-05
Lead	25.5	0.215	"	21.5	7.31	84.7	75-125			
Nickel	31.1	0.431	"	43.1	5.71	59.0	75-125			QM-05
Selenium	3.36	0.280	"	4.31	ND	78.1	75-125			
Silver	1.92	0.0215	"	2.15	0.0439	87.0	75-125			
Zinc	45.0	0.431	"	43.1	20.4	57.2	75-125			QM-05

Matrix Spike Dup (BFJ0207-MSD1)

Source: 2210105-01

Prepared & Analyzed: 10/10/22

Arsenic	12.9	0.215	mg/kg dry	43.1	1.37	26.8	75-125	0.518	25	QM-05
Barium	139	0.431	"	43.1	90.5	113	75-125	11.9	25	
Cadmium	2.42	0.215	"	2.15	0.247	101	75-125	13.9	25	
Copper	31.6	0.431	"	43.1	5.18	61.4	75-125	0.918	25	QM-05
Lead	29.1	0.215	"	21.5	7.31	101	75-125	13.2	25	
Nickel	31.7	0.431	"	43.1	5.71	60.2	75-125	1.70	25	QM-05
Selenium	3.48	0.280	"	4.31	ND	80.9	75-125	3.50	25	
Silver	2.19	0.0215	"	2.15	0.0439	99.5	75-125	13.1	25	
Zinc	45.6	0.431	"	43.1	20.4	58.5	75-125	1.19	25	QM-05

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0311 - 3060A Mod

Blank (BFJ0311-BLK1)

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0311-BS1)

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 21.8 0.30 mg/kg wet 25.0 87.0 80-120

Duplicate (BFJ0311-DUP1)

Source: 2210089-01

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0311-MS1)

Source: 2210089-01

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 27.4 0.30 mg/kg dry 26.6 ND 103 75-125

Matrix Spike Dup (BFJ0311-MSD1)

Source: 2210089-01

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 24.9 0.30 mg/kg dry 26.6 ND 93.6 75-125 9.37 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

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

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

Batch BFJ0242 - General Preparation

Blank (BFJ0242-BLK1)

Prepared: 10/10/22 Analyzed: 10/12/22

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

LCS (BFJ0242-BS1)

Prepared: 10/10/22 Analyzed: 10/12/22

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.47	0.0500	"	5.00	109	70-130
Sodium	5.48	0.0500	"	5.00	110	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

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

Summit Scientific

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

Batch BFJ0288 - General Preparation

Duplicate (BFJ0288-DUP1)

Source: 2210104-01

Prepared: 10/12/22 Analyzed: 10/13/22

% Solids	80.6	%	80.9	0.338	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

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

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

Batch BFJ0266 - General Preparation

Blank (BFJ0266-BLK1)

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0266-BS1)

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.8 95-105

Duplicate (BFJ0266-DUP1)

Source: 2210036-11

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) 0.438 0.0100 mmhos/cm 0.438 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

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

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

Batch BFJ0265 - General Preparation

LCS (BFJ0265-BS1)

Prepared: 10/11/22 Analyzed: 10/14/22

pH	9.06	pH Units	9.18	98.7	95-105
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Duplicate (BFJ0265-DUP1)

Source: 2210036-11

Prepared: 10/11/22 Analyzed: 10/14/22

pH	7.47	pH Units	7.47	0.00	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/17/22 13:28

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 19, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210130

Enclosed are the results of analyses for samples received by Summit Scientific on 10/10/22 16:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@10.0'	2210130-01	Soil	10/10/22 00:00	10/10/22 16:06

Summit Scientific

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

Summit Scientific

S₂

2210130

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Hensch

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

Phone:

Project Name: Branch 1-3

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMDS (915)	DRO,ORO,ORO	PAMS (915)	EC,PH,SAR Boron	Metals (915)				
1	<u>NO₂@10.0'</u>	<u>10/10/22</u>		<u>3</u>			<u>X</u>			<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/10/22 16:06</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/10/22 16:06</u>	Turn Around Time (Check)	Same Day <u>X</u> 72 hours <u>—</u> 24 hours <u>—</u> Standard <u>—</u> 48 hours <u>—</u>	Notes: <u>Bill to Noble</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
Temperature Upon Receipt: <u>22.7</u>	Corrected Temperature <u>—</u>	HNO ₃ lot # <u>—</u>	Samples Intact: <u>Yes</u> No			
IR gun correction: <u>—</u>	IR gun #: <u>—</u>					

S₂

2210130

Sample Receipt Checklist

S2 Work Order#

Client: Fremont EnvClient Project ID: Branch 1-3

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

Airbill #:

☒ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

22.7

Thermometer #

2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24 hour
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

SB

Custodian Printed Name

10/10/22 He·Ule
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

N02@10.0'
2210130-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.20	0.0020	mg/kg	1	BFJ0230	10/10/22	10/11/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.31	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.59	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.11	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	25	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		140 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		136 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	170	50	mg/kg	1	BFJ0231	10/10/22	10/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

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

PAH by EPA Method 8270D SIM

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Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

N02@10.0'
2210130-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0251	10/11/22	10/12/22	EPA 8270D SIM	
Anthracene	0.0382	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00505	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00778	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.110	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.184	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		71.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.367	0.0100	mg/L	1	BFJ0235	10/10/22	10/11/22	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

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N02@10.0'
2210130-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	7.94	0.233	mg/kg dry	1	BFJ0232	10/10/22	10/12/22	EPA 6020B
Barium	85.4	0.466	"	"	"	"	"	"
Cadmium	ND	0.233	"	"	"	"	"	"
Copper	13.5	0.466	"	"	"	"	"	"
Lead	11.0	0.233	"	"	"	"	"	"
Nickel	14.6	0.466	"	"	"	"	"	"
Selenium	0.930	0.303	"	"	"	"	"	"
Silver	ND	0.0233	"	"	"	"	"	"
Zinc	62.5	0.466	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8.23	0.0583	mg/L dry	1	BFJ0243	10/10/22	10/12/22	EPA 6020B	
Magnesium	11.3	0.0583	"	"	"	"	"	"	
Sodium	140	0.0583	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.44	0.00100	units	1	BFJ0375	10/14/22	10/14/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

N02@10.0'
2210130-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BFJ0288	10/12/22	10/13/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.649	0.0100	mmhos/cm	1	BFJ0262	10/11/22	10/14/22	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BFJ0261	10/11/22	10/14/22	EPA 9045D	

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0230 - EPA 5030 Soil MS

Blank (BFJ0230-BLK1)

Prepared: 10/10/22 Analyzed: 10/11/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0518		"	0.0400		129	50-150			
Surrogate: Toluene-d8	0.0423		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

LCS (BFJ0230-BS1)

Prepared: 10/10/22 Analyzed: 10/11/22

Benzene	0.0699	0.0020	mg/kg	0.0750		93.2	70-130			
Toluene	0.0732	0.0050	"	0.0750		97.6	70-130			
Ethylbenzene	0.0728	0.0050	"	0.0750		97.0	70-130			
m,p-Xylene	0.145	0.010	"	0.150		96.6	70-130			
o-Xylene	0.0721	0.0050	"	0.0750		96.1	70-130			
1,2,4-Trimethylbenzene	0.0788	0.0050	"	0.0750		105	70-130			
1,3,5-Trimethylbenzene	0.0769	0.0050	"	0.0750		103	70-130			
Naphthalene	0.0695	0.0038	"	0.0750		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0481		"	0.0400		120	50-150			
Surrogate: Toluene-d8	0.0437		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

Matrix Spike (BFJ0230-MS1)

Source: 2210130-01

Prepared: 10/10/22 Analyzed: 10/11/22

Benzene	0.269	0.0020	mg/kg	0.0750	0.198	94.8	70-130			
Toluene	0.0710	0.0050	"	0.0750	ND	94.6	70-130			
Ethylbenzene	0.390	0.0050	"	0.0750	0.310	107	70-130			
m,p-Xylene	0.139	0.010	"	0.150	ND	92.4	70-130			
o-Xylene	0.0720	0.0050	"	0.0750	ND	96.0	70-130			
1,2,4-Trimethylbenzene	0.661	0.0050	"	0.0750	0.592	92.5	70-130			
1,3,5-Trimethylbenzene	0.0794	0.0050	"	0.0750	ND	106	70-130			
Naphthalene	0.181	0.0038	"	0.0750	0.106	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0567		"	0.0400		142	50-150			
Surrogate: Toluene-d8	0.0361		"	0.0400		90.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0469		"	0.0400		117	50-150			

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Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

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

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

Batch BFJ0230 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0230-MSD1)		Source: 2210130-01			Prepared: 10/10/22 Analyzed: 10/11/22					
Benzene	0.286	0.0020	mg/kg	0.0750	0.198	118	70-130	6.31	30	
Toluene	0.0750	0.0050	"	0.0750	ND	100	70-130	5.47	30	
Ethylbenzene	0.394	0.0050	"	0.0750	0.310	113	70-130	1.12	30	
m,p-Xylene	0.146	0.010	"	0.150	ND	97.4	70-130	5.23	30	
o-Xylene	0.0754	0.0050	"	0.0750	ND	101	70-130	4.72	30	
1,2,4-Trimethylbenzene	0.667	0.0050	"	0.0750	0.592	100	70-130	0.867	30	
1,3,5-Trimethylbenzene	0.0833	0.0050	"	0.0750	ND	111	70-130	4.79	30	
Naphthalene	0.181	0.0038	"	0.0750	0.106	99.6	70-130	0.332	30	
Surrogate: 1,2-Dichloroethane-d4		0.0586	"	0.0400		146	50-150			
Surrogate: Toluene-d8		0.0326	"	0.0400		81.4	50-150			
Surrogate: 4-Bromofluorobenzene		0.0477	"	0.0400		119	50-150			

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0231 - EPA 3550A

Blank (BFJ0231-BLK1)

Prepared: 10/10/22 Analyzed: 10/11/22

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

LCS (BFJ0231-BS1)

Prepared: 10/10/22 Analyzed: 10/11/22

C10-C28 (DRO)	615	50	mg/kg	500	123	70-130
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Matrix Spike (BFJ0231-MS1)

Source: 2210130-01

Prepared: 10/10/22 Analyzed: 10/11/22

C10-C28 (DRO)	641	50	mg/kg	500	170	94.2	70-130
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Matrix Spike Dup (BFJ0231-MSD1)

Source: 2210130-01

Prepared: 10/10/22 Analyzed: 10/11/22

C10-C28 (DRO)	648	50	mg/kg	500	170	95.7	70-130	1.16	20
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PO Box 1289
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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0251 - EPA 5030 Soil MS

Blank (BFJ0251-BLK1)

Prepared & Analyzed: 10/11/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0338		"	0.0333		101	40-150			
Surrogate: Fluoranthene-d10	0.0260		"	0.0333		77.9	40-150			

LCS (BFJ0251-BS1)

Prepared & Analyzed: 10/11/22

Acenaphthene	0.0331	0.00500	mg/kg	0.0333	99.3	31-137
Anthracene	0.0332	0.00500	"	0.0333	99.5	30-120
Benzo (a) anthracene	0.0272	0.00500	"	0.0333	81.5	30-120
Benzo (a) pyrene	0.0296	0.00500	"	0.0333	88.7	30-120
Benzo (b) fluoranthene	0.0311	0.00500	"	0.0333	93.2	30-120
Benzo (k) fluoranthene	0.0290	0.00500	"	0.0333	87.1	30-120
Chrysene	0.0265	0.00500	"	0.0333	79.6	30-120
Dibenz (a,h) anthracene	0.0303	0.00500	"	0.0333	91.0	30-120
Fluoranthene	0.0292	0.00500	"	0.0333	87.6	30-120
Fluorene	0.0264	0.00500	"	0.0333	79.1	30-120
Indeno (1,2,3-cd) pyrene	0.0391	0.00500	"	0.0333	117	30-120
Pyrene	0.0251	0.00500	"	0.0333	75.2	35-142
1-Methylnaphthalene	0.0306	0.00500	"	0.0333	91.9	35-142
2-Methylnaphthalene	0.0330	0.00500	"	0.0333	99.1	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0319		"	0.0333	95.7	40-150
Surrogate: Fluoranthene-d10	0.0322		"	0.0333	96.6	40-150

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0251 - EPA 5030 Soil MS

Matrix Spike (BFJ0251-MS1)			Source: 2210123-01		Prepared: 10/11/22 Analyzed: 10/12/22					
Acenaphthene	0.0309	0.00500	mg/kg	0.0333	ND	92.8	31-137			
Anthracene	0.0261	0.00500	"	0.0333	ND	78.2	30-120			
Benzo (a) anthracene	0.0208	0.00500	"	0.0333	ND	62.4	30-120			
Benzo (a) pyrene	0.0229	0.00500	"	0.0333	ND	68.7	30-120			
Benzo (b) fluoranthene	0.0244	0.00500	"	0.0333	ND	73.3	30-120			
Benzo (k) fluoranthene	0.0237	0.00500	"	0.0333	ND	71.1	30-120			
Chrysene	0.0202	0.00500	"	0.0333	ND	60.5	30-120			
Dibenz (a,h) anthracene	0.0234	0.00500	"	0.0333	ND	70.3	30-120			
Fluoranthene	0.0237	0.00500	"	0.0333	ND	71.1	30-120			
Fluorene	0.0218	0.00500	"	0.0333	ND	65.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0288	0.00500	"	0.0333	ND	86.4	30-120			
Pyrene	0.0192	0.00500	"	0.0333	ND	57.5	35-142			
1-Methylnaphthalene	0.0250	0.00500	"	0.0333	ND	75.1	15-130			
2-Methylnaphthalene	0.0267	0.00500	"	0.0333	ND	80.0	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0252		"	0.0333		75.7	40-150			
Surrogate: Fluoranthene-d10	0.0255		"	0.0333		76.4	40-150			

Matrix Spike Dup (BFJ0251-MSD1)			Source: 2210123-01		Prepared: 10/11/22 Analyzed: 10/12/22					
Acenaphthene	0.0285	0.00500	mg/kg	0.0333	ND	85.5	31-137	8.22	30	
Anthracene	0.0245	0.00500	"	0.0333	ND	73.4	30-120	6.36	30	
Benzo (a) anthracene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	6.69	30	
Benzo (a) pyrene	0.0211	0.00500	"	0.0333	ND	63.2	30-120	8.20	30	
Benzo (b) fluoranthene	0.0222	0.00500	"	0.0333	ND	66.5	30-120	9.61	30	
Benzo (k) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.3	30-120	10.1	30	
Chrysene	0.0189	0.00500	"	0.0333	ND	56.7	30-120	6.39	30	
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	8.01	30	
Fluoranthene	0.0228	0.00500	"	0.0333	ND	68.5	30-120	3.70	30	
Fluorene	0.0201	0.00500	"	0.0333	ND	60.3	30-120	8.23	30	
Indeno (1,2,3-cd) pyrene	0.0266	0.00500	"	0.0333	ND	79.9	30-120	7.81	30	
Pyrene	0.0185	0.00500	"	0.0333	ND	55.5	35-142	3.58	30	
1-Methylnaphthalene	0.0252	0.00500	"	0.0333	ND	75.6	15-130	0.693	50	
2-Methylnaphthalene	0.0264	0.00500	"	0.0333	ND	79.1	15-130	1.17	50	
Surrogate: 2-Methylnaphthalene-d10	0.0249		"	0.0333		74.8	40-150			
Surrogate: Fluoranthene-d10	0.0241		"	0.0333		72.2	40-150			

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

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

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

Batch BFJ0235 - EPA 3050B

Blank (BFJ0235-BLK1)

Prepared: 10/10/22 Analyzed: 10/11/22

Boron ND 0.0100 mg/L

LCS (BFJ0235-BS1)

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 5.43 0.0100 mg/L 5.00 109 80-120

Duplicate (BFJ0235-DUP1)

Source: 2210035-50

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 0.0720 0.0100 mg/L 0.0728 1.12 20

Matrix Spike (BFJ0235-MS1)

Source: 2210035-50

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 4.86 0.0100 mg/L 5.00 0.0728 95.7 75-125

Matrix Spike Dup (BFJ0235-MSD1)

Source: 2210035-50

Prepared: 10/10/22 Analyzed: 10/11/22

Boron 5.26 0.0100 mg/L 5.00 0.0728 104 75-125 7.96 25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFJ0232 - EPA 3050B

Blank (BFJ0232-BLK1)

Prepared: 10/10/22 Analyzed: 10/12/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFJ0232-BS1)

Prepared: 10/10/22 Analyzed: 10/12/22

Arsenic	44.2	0.200	mg/kg wet	40.0	111	80-120
Barium	46.3	0.400	"	40.0	116	80-120
Cadmium	2.23	0.200	"	2.00	112	80-120
Copper	46.0	0.400	"	40.0	115	80-120
Lead	22.1	0.200	"	20.0	110	80-120
Nickel	44.1	0.400	"	40.0	110	80-120
Selenium	4.20	0.260	"	4.00	105	80-120
Silver	2.22	0.0200	"	2.00	111	80-120
Zinc	45.2	0.400	"	40.0	113	80-120

Duplicate (BFJ0232-DUP1)

Source: 2210056-01

Prepared: 10/10/22 Analyzed: 10/12/22

Arsenic	5.40	0.238	mg/kg dry	5.48	1.35	20
Barium	39.4	0.477	"	40.0	1.43	20
Cadmium	0.0584	0.238	"	0.0585	0.145	20
Copper	7.39	0.477	"	7.30	1.32	20
Lead	8.90	0.238	"	8.79	1.29	20
Nickel	12.1	0.477	"	11.8	2.04	20
Selenium	0.688	0.310	"	0.740	7.34	20
Silver	0.0160	0.0238	"	0.0171	6.49	20
Zinc	49.9	0.477	"	49.5	0.849	20

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFJ0232 - EPA 3050B

Matrix Spike (BFJ0232-MS1)		Source: 2210056-01			Prepared: 10/10/22 Analyzed: 10/12/22					
Arsenic	56.8	0.238	mg/kg dry	47.7	5.48	108	75-125			
Barium	87.3	0.477	"	47.7	40.0	99.3	75-125			
Cadmium	2.48	0.238	"	2.38	0.0585	102	75-125			
Copper	58.1	0.477	"	47.7	7.30	107	75-125			
Lead	30.4	0.238	"	23.8	8.79	90.7	75-125			
Nickel	62.8	0.477	"	47.7	11.8	107	75-125			
Selenium	5.17	0.310	"	4.77	0.740	92.9	75-125			
Silver	2.34	0.0238	"	2.38	0.0171	97.3	75-125			
Zinc	104	0.477	"	47.7	49.5	114	75-125			

Matrix Spike Dup (BFJ0232-MSD1)		Source: 2210056-01			Prepared: 10/10/22 Analyzed: 10/12/22					
Arsenic	57.5	0.238	mg/kg dry	47.7	5.48	109	75-125	1.27	25	
Barium	89.4	0.477	"	47.7	40.0	104	75-125	2.37	25	
Cadmium	2.53	0.238	"	2.38	0.0585	104	75-125	2.14	25	
Copper	58.9	0.477	"	47.7	7.30	108	75-125	1.29	25	
Lead	31.4	0.238	"	23.8	8.79	94.8	75-125	3.15	25	
Nickel	63.9	0.477	"	47.7	11.8	109	75-125	1.60	25	
Selenium	5.39	0.310	"	4.77	0.740	97.6	75-125	4.24	25	
Silver	2.41	0.0238	"	2.38	0.0171	100	75-125	2.87	25	
Zinc	105	0.477	"	47.7	49.5	117	75-125	1.51	25	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0416 - 3060A Mod

Blank (BFJ0416-BLK1)

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0416-BS1)

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BFJ0416-DUP1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0416-MS1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 37.6 0.30 mg/kg dry 29.5 ND 127 75-125 QM-05

Matrix Spike Dup (BFJ0416-MSD1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 46.1 0.30 mg/kg dry 29.5 ND 156 75-125 20.3 20 QM-05

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

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

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

Batch BFJ0243 - General Preparation

Blank (BFJ0243-BLK1)

Prepared: 10/10/22 Analyzed: 10/12/22

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

LCS (BFJ0243-BS1)

Prepared: 10/10/22 Analyzed: 10/12/22

Calcium	5.12	0.0500	mg/L wet	5.00	102	70-130
Magnesium	6.13	0.0500	"	5.00	123	70-130
Sodium	5.65	0.0500	"	5.00	113	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

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

Summit Scientific

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

Batch BFJ0288 - General Preparation

Duplicate (BFJ0288-DUP1)

Source: 2210104-01

Prepared: 10/12/22 Analyzed: 10/13/22

% Solids	80.6	%	80.9	0.338	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

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

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

Batch BFJ0262 - General Preparation

Blank (BFJ0262-BLK1)

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0262-BS1)

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BFJ0262-DUP1)

Source: 2210065-01

Prepared: 10/11/22 Analyzed: 10/14/22

Specific Conductance (EC) 0.822 0.0100 mmhos/cm 0.808 1.68 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

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

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

Batch BFJ0261 - General Preparation

LCS (BFJ0261-BS1)

Prepared: 10/11/22 Analyzed: 10/14/22

pH	8.98	pH Units	9.18	97.8	95-105
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Duplicate (BFJ0261-DUP1)

Source: 2210065-01

Prepared: 10/11/22 Analyzed: 10/14/22

pH	7.66	pH Units	7.68	0.261	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:10

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 19, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210144

Enclosed are the results of analyses for samples received by Summit Scientific on 10/11/22 15:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B07@12.0'	2210144-01	Soil	10/11/22 00:00	10/11/22 15:57

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

2210144

S₂

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

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

Phone:

Project Name: Branch 1-3

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBS(915)	DRO, GPO, ORD	PAHs(915)	EC, pH, SAR	Metals(915)			
1	<u>B07c12.0</u>	<u>10/11/22</u>		<u>3</u>			<u>X</u>			<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/11/22/1557</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/11/22 1557</u>	Turn Around Time (Check)	Notes: <u>Bill to Noble</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
				48 hours <u>—</u>	
Temperature Upon Receipt: <u>22.7</u>	Corrected Temperature <u>—</u>	HNO ₃ lot # <u>—</u>	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>—</u>	IR gun #: <u>2</u>				

S₂

Sample Receipt Checklist

S2 Work Order#

2210149

Client: Noble / Fremont Client Project ID: Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 22.7Thermometer # 2

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

Additional Comments (if any):

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

Custodian Printed Name

10/11/22

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

B07@12.0'
2210144-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/11/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0272	10/11/22	10/11/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/11/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		89.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/11/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0273	"	10/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/11/22 00:00**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

B07@12.0'
2210144-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/11/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0274	10/12/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/11/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		66.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/11/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.710	0.0100	mg/L	1	BFJ0283	10/12/22	10/12/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/11/22 00:00**

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



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

B07@12.0'
2210144-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.89	0.240	mg/kg dry	1	BFJ0277	10/12/22	10/12/22	EPA 6020B
Barium	35.6	0.480	"	"	"	"	"	"
Cadmium	ND	0.240	"	"	"	"	"	"
Copper	9.23	0.480	"	"	"	"	"	"
Lead	19.4	0.240	"	"	"	"	"	"
Nickel	8.05	0.480	"	"	"	"	"	"
Selenium	0.328	0.312	"	"	"	"	"	"
Silver	0.0350	0.0240	"	"	"	"	"	"
Zinc	37.5	0.480	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/11/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

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

Date Sampled: 10/11/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.2	0.0600	mg/L dry	1	BFJ0324	10/13/22	10/15/22	EPA 6020B	
Magnesium	18.2	0.0600	"	"	"	"	"	"	
Sodium	216	0.0600	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/11/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.95	0.00100	units	1	BFJ0434	10/18/22	10/18/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/11/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

B07@12.0'
2210144-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.3	%	1	BFJ0325	10/13/22	10/13/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/11/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.02	0.0100	mmhos/cm	1	BFJ0376	10/14/22	10/14/22	EPA 120.1	

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

Date Sampled: **10/11/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BFJ0377	10/14/22	10/14/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0272 - EPA 5030 Soil MS

Blank (BFJ0272-BLK1)

Prepared & Analyzed: 10/11/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0366		"	0.0400		91.4	50-150			
Surrogate: Toluene-d8	0.0365		"	0.0400		91.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.1	50-150			

LCS (BFJ0272-BS1)

Prepared: 10/11/22 Analyzed: 10/12/22

Benzene	0.104	0.0020	mg/kg	0.100		104	70-130			
Toluene	0.0850	0.0050	"	0.100		85.0	70-130			
Ethylbenzene	0.0854	0.0050	"	0.100		85.4	70-130			
m,p-Xylene	0.230	0.010	"	0.200		115	70-130			
o-Xylene	0.100	0.0050	"	0.100		100	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
Naphthalene	0.0955	0.0038	"	0.100		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0382		"	0.0400		95.6	50-150			
Surrogate: Toluene-d8	0.0371		"	0.0400		92.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0361		"	0.0400		90.2	50-150			

Matrix Spike (BFJ0272-MS1)

Source: 2210144-01

Prepared: 10/11/22 Analyzed: 10/12/22

Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130			
Toluene	0.0865	0.0050	"	0.100	ND	86.5	70-130			
Ethylbenzene	0.0856	0.0050	"	0.100	ND	85.6	70-130			
m,p-Xylene	0.232	0.010	"	0.200	ND	116	70-130			
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130			
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130			
Naphthalene	0.0851	0.0038	"	0.100	ND	85.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0405		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.5	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

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

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

Batch BFJ0272 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0272-MSD1)		Source: 2210144-01			Prepared: 10/11/22 Analyzed: 10/12/22					
Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130	0.0572	30	
Toluene	0.0876	0.0050	"	0.100	ND	87.6	70-130	1.24	30	
Ethylbenzene	0.0911	0.0050	"	0.100	ND	91.1	70-130	6.28	30	
m,p-Xylene	0.223	0.010	"	0.200	ND	112	70-130	3.72	30	
o-Xylene	0.109	0.0050	"	0.100	ND	109	70-130	8.16	30	
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.100	ND	115	70-130	11.6	30	
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130	10.7	30	
Naphthalene	0.0904	0.0038	"	0.100	ND	90.4	70-130	6.02	30	
Surrogate: 1,2-Dichloroethane-d4		0.0408	"	0.0400		102	50-150			
Surrogate: Toluene-d8		0.0369	"	0.0400		92.3	50-150			
Surrogate: 4-Bromofluorobenzene		0.0375	"	0.0400		93.8	50-150			

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0273 - EPA 3550A

Blank (BFJ0273-BLK1)

Prepared: 10/11/22 Analyzed: 10/12/22

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

LCS (BFJ0273-BS1)

Prepared: 10/11/22 Analyzed: 10/12/22

C10-C28 (DRO)	547	50	mg/kg	500	109	70-130
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Matrix Spike (BFJ0273-MS1)

Source: 2210144-01

Prepared: 10/11/22 Analyzed: 10/12/22

C10-C28 (DRO)	503	50	mg/kg	500	32.9	94.0	70-130
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Matrix Spike Dup (BFJ0273-MSD1)

Source: 2210144-01

Prepared: 10/11/22 Analyzed: 10/12/22

C10-C28 (DRO)	515	50	mg/kg	500	32.9	96.5	70-130	2.52	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0274 - EPA 5030 Soil MS

Blank (BFJ0274-BLK1)

Prepared: 10/12/22 Analyzed: 10/13/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0252		"	0.0333		75.6	40-150			
Surrogate: Fluoranthene-d10	0.0194		"	0.0333		58.1	40-150			

LCS (BFJ0274-BS1)

Prepared: 10/12/22 Analyzed: 10/13/22

Acenaphthene	0.0306	0.00500	mg/kg	0.0333		91.8	31-137			
Anthracene	0.0311	0.00500	"	0.0333		93.2	30-120			
Benzo (a) anthracene	0.0260	0.00500	"	0.0333		78.0	30-120			
Benzo (a) pyrene	0.0286	0.00500	"	0.0333		85.7	30-120			
Benzo (b) fluoranthene	0.0274	0.00500	"	0.0333		82.3	30-120			
Benzo (k) fluoranthene	0.0285	0.00500	"	0.0333		85.5	30-120			
Chrysene	0.0268	0.00500	"	0.0333		80.5	30-120			
Dibenz (a,h) anthracene	0.0318	0.00500	"	0.0333		95.5	30-120			
Fluoranthene	0.0314	0.00500	"	0.0333		94.2	30-120			
Fluorene	0.0229	0.00500	"	0.0333		68.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0232	0.00500	"	0.0333		69.6	30-120			
Pyrene	0.0268	0.00500	"	0.0333		80.3	35-142			
1-Methylnaphthalene	0.0298	0.00500	"	0.0333		89.3	35-142			
2-Methylnaphthalene	0.0303	0.00500	"	0.0333		90.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0314		"	0.0333		94.1	40-150			
Surrogate: Fluoranthene-d10	0.0309		"	0.0333		92.7	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BFJ0274 - EPA 5030 Soil MS

Matrix Spike (BFJ0274-MS1)

Source: 2209590-01

Prepared: 10/12/22 Analyzed: 10/13/22

Acenaphthene	0.0276	0.00500	mg/kg	0.0333	ND	82.7	31-137				
Anthracene	0.0235	0.00500	"	0.0333	ND	70.6	30-120				
Benzo (a) anthracene	0.0183	0.00500	"	0.0333	ND	55.0	30-120				
Benzo (a) pyrene	0.0189	0.00500	"	0.0333	ND	56.7	30-120				
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.8	30-120				
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.9	30-120				
Chrysene	0.0205	0.00500	"	0.0333	ND	61.6	30-120				
Dibenz (a,h) anthracene	0.0224	0.00500	"	0.0333	ND	67.2	30-120				
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.8	30-120				
Fluorene	0.0181	0.00500	"	0.0333	ND	54.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	0.0333	ND	49.6	30-120				
Pyrene	0.0190	0.00500	"	0.0333	ND	57.1	35-142				
1-Methylnaphthalene	0.0273	0.00500	"	0.0333	ND	81.9	15-130				
2-Methylnaphthalene	0.0265	0.00500	"	0.0333	ND	79.6	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0199		"	0.0333		59.6	40-150				
Surrogate: Fluoranthene-d10	0.0184		"	0.0333		55.3	40-150				

Matrix Spike Dup (BFJ0274-MSD1)

Source: 2209590-01

Prepared: 10/12/22 Analyzed: 10/13/22

Acenaphthene	0.0293	0.00500	mg/kg	0.0333	ND	87.8	31-137	6.00	30		
Anthracene	0.0253	0.00500	"	0.0333	ND	75.8	30-120	7.16	30		
Benzo (a) anthracene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	6.98	30		
Benzo (a) pyrene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	10.2	30		
Benzo (b) fluoranthene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	12.3	30		
Benzo (k) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	11.1	30		
Chrysene	0.0225	0.00500	"	0.0333	ND	67.6	30-120	9.29	30		
Dibenz (a,h) anthracene	0.0240	0.00500	"	0.0333	ND	72.1	30-120	7.11	30		
Fluoranthene	0.0235	0.00500	"	0.0333	ND	70.6	30-120	11.7	30		
Fluorene	0.0166	0.00500	"	0.0333	ND	49.8	30-120	8.43	30		
Indeno (1,2,3-cd) pyrene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	9.33	30		
Pyrene	0.0225	0.00500	"	0.0333	ND	67.6	35-142	16.9	30		
1-Methylnaphthalene	0.0277	0.00500	"	0.0333	ND	83.1	15-130	1.42	50		
2-Methylnaphthalene	0.0255	0.00500	"	0.0333	ND	76.6	15-130	3.85	50		
Surrogate: 2-Methylnaphthalene-d10	0.0214		"	0.0333		64.2	40-150				
Surrogate: Fluoranthene-d10	0.0209		"	0.0333		62.6	40-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

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

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

Batch BFJ0283 - EPA 3050B

Blank (BFJ0283-BLK1)

Prepared & Analyzed: 10/12/22

Boron ND 0.0100 mg/L

LCS (BFJ0283-BS1)

Prepared & Analyzed: 10/12/22

Boron 4.59 0.0100 mg/L 5.00 91.8 80-120

Duplicate (BFJ0283-DUP1)

Source: 2210119-01

Prepared & Analyzed: 10/12/22

Boron 0.0743 0.0100 mg/L 0.0937 23.1 20 QR-03

Matrix Spike (BFJ0283-MS1)

Source: 2210119-01

Prepared & Analyzed: 10/12/22

Boron 4.61 0.0100 mg/L 5.00 0.0937 90.3 75-125

Matrix Spike Dup (BFJ0283-MSD1)

Source: 2210119-01

Prepared & Analyzed: 10/12/22

Boron 4.60 0.0100 mg/L 5.00 0.0937 90.2 75-125 0.158 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0277 - EPA 3050B

Blank (BFJ0277-BLK1)

Prepared & Analyzed: 10/12/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFJ0277-BS1)

Prepared & Analyzed: 10/12/22

Arsenic	36.7	0.200	mg/kg wet	40.0	91.7	80-120
Barium	35.6	0.400	"	40.0	88.9	80-120
Cadmium	1.75	0.200	"	2.00	87.5	80-120
Copper	37.4	0.400	"	40.0	93.5	80-120
Lead	17.8	0.200	"	20.0	89.2	80-120
Nickel	35.1	0.400	"	40.0	87.8	80-120
Selenium	4.58	0.260	"	4.00	115	80-120
Silver	1.76	0.0200	"	2.00	87.9	80-120
Zinc	35.7	0.400	"	40.0	89.2	80-120

Duplicate (BFJ0277-DUP1)

Source: 2210099-06

Prepared & Analyzed: 10/12/22

Arsenic	1.73	0.242	mg/kg dry	1.72	0.758	20
Barium	163	0.484	"	165	0.836	20
Cadmium	0.435	0.242	"	0.440	1.10	20
Copper	7.96	0.484	"	7.96	0.0243	20
Lead	15.2	0.242	"	15.3	1.20	20
Nickel	6.78	0.484	"	6.79	0.135	20
Selenium	0.251	0.314	"	0.250	0.580	20
Silver	0.0740	0.0242	"	0.0745	0.651	20
Zinc	29.0	0.484	"	29.0	0.0783	20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0277 - EPA 3050B

Matrix Spike (BFJ0277-MS1)

Source: 2210099-06

Prepared & Analyzed: 10/12/22

Arsenic	11.2	0.242	mg/kg dry	48.4	1.72	19.7	75-125			QM-05
Barium	172	0.484	"	48.4	165	16.1	75-125			QM-02
Cadmium	2.63	0.242	"	2.42	0.440	90.6	75-125			
Copper	29.8	0.484	"	48.4	7.96	45.2	75-125			QM-05
Lead	37.9	0.242	"	24.2	15.3	93.4	75-125			
Nickel	47.1	0.484	"	48.4	6.79	83.4	75-125			
Selenium	5.85	0.314	"	4.84	0.250	116	75-125			
Silver	2.34	0.0242	"	2.42	0.0745	93.8	75-125			
Zinc	68.1	0.484	"	48.4	29.0	80.7	75-125			

Matrix Spike Dup (BFJ0277-MSD1)

Source: 2210099-06

Prepared & Analyzed: 10/12/22

Arsenic	11.3	0.242	mg/kg dry	48.4	1.72	19.7	75-125	0.318	25	QM-05
Barium	170	0.484	"	48.4	165	12.1	75-125	1.13	25	QM-02
Cadmium	2.59	0.242	"	2.42	0.440	88.8	75-125	1.65	25	
Copper	30.5	0.484	"	48.4	7.96	46.6	75-125	2.36	25	QM-05
Lead	38.0	0.242	"	24.2	15.3	93.6	75-125	0.0867	25	
Nickel	47.8	0.484	"	48.4	6.79	84.9	75-125	1.49	25	
Selenium	6.06	0.314	"	4.84	0.250	120	75-125	3.57	25	
Silver	2.32	0.0242	"	2.42	0.0745	92.7	75-125	1.18	25	
Zinc	69.1	0.484	"	48.4	29.0	82.8	75-125	1.46	25	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0416 - 3060A Mod

Blank (BFJ0416-BLK1)

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0416-BS1)

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BFJ0416-DUP1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0416-MS1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 37.6 0.30 mg/kg dry 29.5 ND 127 75-125 QM-05

Matrix Spike Dup (BFJ0416-MSD1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 46.1 0.30 mg/kg dry 29.5 ND 156 75-125 20.3 20 QM-05

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

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

Summit Scientific

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

Batch BFJ0324 - General Preparation

Blank (BFJ0324-BLK1)

Prepared: 10/13/22 Analyzed: 10/14/22

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

LCS (BFJ0324-BS1)

Prepared: 10/13/22 Analyzed: 10/14/22

Calcium	5.92	0.0500	mg/L wet	5.00	118	70-130
Magnesium	5.71	0.0500	"	5.00	114	70-130
Sodium	5.61	0.0500	"	5.00	112	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

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

Summit Scientific

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

Batch BFJ0325 - General Preparation

Duplicate (BFJ0325-DUP1)

Source: 2210135-01

Prepared & Analyzed: 10/13/22

% Solids	96.3	%	95.6	0.742	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

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

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

Batch BFJ0376 - General Preparation

Blank (BFJ0376-BLK1)

Prepared & Analyzed: 10/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0376-BS1)

Prepared & Analyzed: 10/14/22

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 97.8 95-105

Duplicate (BFJ0376-DUP1)

Source: 2209506-02

Prepared & Analyzed: 10/14/22

Specific Conductance (EC) 0.489 0.0100 mmhos/cm 0.489 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

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

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

Batch BFJ0377 - General Preparation

LCS (BFJ0377-BS1)

Prepared & Analyzed: 10/14/22

pH	9.07	pH Units	9.18	98.8	95-105
----	------	----------	------	------	--------

Duplicate (BFJ0377-DUP1)

Source: 2210139-01

Prepared & Analyzed: 10/14/22

pH	8.09	pH Units	8.09	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/19/22 16:39

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 20, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210166

Enclosed are the results of analyses for samples received by Summit Scientific on 10/12/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B08@12.0'	2210166-01	Soil	10/12/22 00:00	10/12/22 16:00
N03@10.0'	2210166-02	Soil	10/12/22 00:00	10/12/22 16:00
W02@10.0'	2210166-03	Soil	10/12/22 00:00	10/12/22 16:00

Summit Scientific

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

Summit Scientific

2210166

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

Phone:

Project Name: Branch 1-3

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	STEX+N	TMBS (915)	GRO, DRD, ORO	PAHs (915)	EC, PH, SAR, Boron	Metals (915)		
1	B08@12.0'	10/12/22		3			X			X				X	X	X	X	X		
2	N03@10.0'	↓		3			↓			↓				↓	↓	↓	↓	↓		
3	W02@10.0'	↓		3			↓			↓				↓	↓	↓	↓	↓		
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/12/22 1600</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/12/22 1600</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <u>X</u> 72 hours	Bill to Noble
				24 hours	
				48 hours	
Temperature Upon Receipt: <u>21.8</u>	Corrected Temperature: <u>—</u>	HNO3 lot #	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>—</u>	IR gun #: <u>2</u>				

S₂

S2 Work Order# 2210166

Sample Receipt Checklist

Client: Noble / Fremont Client Project ID: Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 21.8 Thermometer # 2

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

Additional Comments (if any):

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

Custodian Printed Name

10/12/22

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

B08@12.0'
2210166-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 00:00**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

B08@12.0'
2210166-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		43.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		88.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.421	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/12/22 00:00**

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



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

B08@12.0'
2210166-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.26	0.239	mg/kg dry	1	BFJ0337	10/13/22	10/15/22	EPA 6020B
Barium	18.9	0.479	"	"	"	"	"	"
Cadmium	ND	0.239	"	"	"	"	"	"
Copper	6.01	0.479	"	"	"	"	"	"
Lead	9.21	0.239	"	"	"	"	"	"
Nickel	7.41	0.479	"	"	"	"	"	"
Selenium	ND	0.311	"	"	"	"	"	"
Silver	0.165	0.0239	"	"	"	"	"	"
Zinc	32.6	0.479	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/12/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0311	10/12/22	10/13/22	EPA 7196A	

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

Date Sampled: 10/12/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.3	0.0599	mg/L dry	1	BFJ0412	10/17/22	10/18/22	EPA 6020B	
Magnesium	42.3	0.0599	"	"	"	"	"	"	
Sodium	324	0.0599	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/12/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.30	0.00100	units	1	BFJ0494	10/19/22	10/19/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

B08@12.0'
2210166-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.5		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.58	0.0100	mmhos/cm	1	BFJ0445	10/18/22	10/19/22	EPA 120.1	

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

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BFJ0446	10/18/22	10/18/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

N03@10.0'
2210166-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		119 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	160	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		147 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

N03@10.0'
2210166-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/13/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00712	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: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		62.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		106 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.335	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/12/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

N03@10.0'
2210166-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	2.27	0.244	mg/kg dry	1	BFJ0337	10/13/22	10/15/22	EPA 6020B
Barium	106	0.488	"	"	"	"	"	"
Cadmium	ND	0.244	"	"	"	"	"	"
Copper	7.92	0.488	"	"	"	"	"	"
Lead	12.1	0.244	"	"	"	"	"	"
Nickel	8.65	0.488	"	"	"	"	"	"
Selenium	ND	0.317	"	"	"	"	"	"
Silver	0.171	0.0244	"	"	"	"	"	"
Zinc	34.6	0.488	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0311	10/12/22	10/13/22	EPA 7196A	

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

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.2	0.0610	mg/L dry	1	BFJ0412	10/17/22	10/18/22	EPA 6020B	
Magnesium	76.0	0.0610	"	"	"	"	"	"	
Sodium	377	0.0610	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.19	0.00100	units	1	BFJ0494	10/19/22	10/19/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

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N03@10.0'
2210166-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.0		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.988	0.0100	mmhos/cm	1	BFJ0445	10/18/22	10/19/22	EPA 120.1	

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

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BFJ0446	10/18/22	10/18/22	EPA 9045D	

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

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W02@10.0'
2210166-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0313	10/12/22	10/12/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0314	10/12/22	10/12/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		128 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

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W02@10.0'
2210166-03 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0316	10/13/22	10/14/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		46.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		82.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.347	0.0100	mg/L	1	BFJ0321	10/13/22	10/14/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
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W02@10.0'
2210166-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	2.19	0.240	mg/kg dry	1	BFJ0337	10/13/22	10/15/22	EPA 6020B
Barium	306	0.480	"	"	"	"	"	"
Cadmium	ND	0.240	"	"	"	"	"	"
Copper	8.46	0.480	"	"	"	"	"	"
Lead	15.4	0.240	"	"	"	"	"	"
Nickel	8.55	0.480	"	"	"	"	"	"
Selenium	ND	0.312	"	"	"	"	"	"
Silver	0.162	0.0240	"	"	"	"	"	"
Zinc	37.7	0.480	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0311	10/12/22	10/13/22	EPA 7196A	

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

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.6	0.0601	mg/L dry	1	BFJ0412	10/17/22	10/18/22	EPA 6020B	
Magnesium	73.7	0.0601	"	"	"	"	"	"	
Sodium	390	0.0601	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.33	0.00100	units	1	BFJ0494	10/19/22	10/19/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

W02@10.0'
2210166-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.3		%	1	BFJ0361	10/14/22	10/14/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.11	0.0100	mmhos/cm	1	BFJ0445	10/18/22	10/19/22	EPA 120.1	

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

Date Sampled: **10/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BFJ0446	10/18/22	10/18/22	EPA 9045D	

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0313 - EPA 5030 Soil MS

Blank (BFJ0313-BLK1)

Prepared: 10/12/22 Analyzed: 10/13/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	50-150			

LCS (BFJ0313-BS1)

Prepared: 10/12/22 Analyzed: 10/13/22

Benzene	0.0789	0.0020	mg/kg	0.100		78.9	70-130			
Toluene	0.0955	0.0050	"	0.100		95.5	70-130			
Ethylbenzene	0.0989	0.0050	"	0.100		98.9	70-130			
m,p-Xylene	0.228	0.010	"	0.200		114	70-130			
o-Xylene	0.0890	0.0050	"	0.100		89.0	70-130			
1,2,4-Trimethylbenzene	0.0845	0.0050	"	0.100		84.5	70-130			
1,3,5-Trimethylbenzene	0.0863	0.0050	"	0.100		86.3	70-130			
Naphthalene	0.0875	0.0038	"	0.100		87.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

Matrix Spike (BFJ0313-MS1)

Source: 2210166-01

Prepared: 10/12/22 Analyzed: 10/13/22

Benzene	0.0770	0.0020	mg/kg	0.100	ND	77.0	70-130			
Toluene	0.0915	0.0050	"	0.100	ND	91.5	70-130			
Ethylbenzene	0.0978	0.0050	"	0.100	ND	97.8	70-130			
m,p-Xylene	0.226	0.010	"	0.200	ND	113	70-130			
o-Xylene	0.0883	0.0050	"	0.100	ND	88.3	70-130			
1,2,4-Trimethylbenzene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
1,3,5-Trimethylbenzene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
Naphthalene	0.0965	0.0038	"	0.100	ND	96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	50-150			

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

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

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

Batch BFJ0313 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0313-MSD1)		Source: 2210166-01			Prepared: 10/12/22 Analyzed: 10/13/22					
Benzene	0.0783	0.0020	mg/kg	0.100	ND	78.3	70-130	1.70	30	
Toluene	0.0933	0.0050	"	0.100	ND	93.3	70-130	1.92	30	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	4.91	30	
m,p-Xylene	0.219	0.010	"	0.200	ND	109	70-130	3.28	30	
o-Xylene	0.0926	0.0050	"	0.100	ND	92.6	70-130	4.78	30	
1,2,4-Trimethylbenzene	0.0854	0.0050	"	0.100	ND	85.4	70-130	2.85	30	
1,3,5-Trimethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130	4.62	30	
Naphthalene	0.0911	0.0038	"	0.100	ND	91.1	70-130	5.73	30	
Surrogate: 1,2-Dichloroethane-d4		0.0434	"	0.0400		108	50-150			
Surrogate: Toluene-d8		0.0405	"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene		0.0407	"	0.0400		102	50-150			

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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0314 - EPA 3550A

Blank (BFJ0314-BLK1)

Prepared: 10/12/22 Analyzed: 10/13/22

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

LCS (BFJ0314-BS1)

Prepared: 10/12/22 Analyzed: 10/13/22

C10-C28 (DRO)	566	50	mg/kg	500	113	70-130
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Matrix Spike (BFJ0314-MS1)

Source: 2210166-01

Prepared: 10/12/22 Analyzed: 10/13/22

C10-C28 (DRO)	544	50	mg/kg	500	19.9	105	70-130
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Matrix Spike Dup (BFJ0314-MSD1)

Source: 2210166-01

Prepared: 10/12/22 Analyzed: 10/13/22

C10-C28 (DRO)	574	50	mg/kg	500	19.9	111	70-130	5.29	20
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Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0316 - EPA 5030 Soil MS

Blank (BFJ0316-BLK1)

Prepared & Analyzed: 10/13/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		48.1	40-150			
Surrogate: Fluoranthene-d10	0.0339		"	0.0333		102	40-150			

LCS (BFJ0316-BS1)

Prepared & Analyzed: 10/13/22

Acenaphthene	0.0329	0.00500	mg/kg	0.0333		98.7	31-137			
Anthracene	0.0264	0.00500	"	0.0333		79.1	30-120			
Benzo (a) anthracene	0.0235	0.00500	"	0.0333		70.5	30-120			
Benzo (a) pyrene	0.0233	0.00500	"	0.0333		70.0	30-120			
Benzo (b) fluoranthene	0.0209	0.00500	"	0.0333		62.8	30-120			
Benzo (k) fluoranthene	0.0209	0.00500	"	0.0333		62.7	30-120			
Chrysene	0.0312	0.00500	"	0.0333		93.7	30-120			
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333		74.0	30-120			
Fluoranthene	0.0247	0.00500	"	0.0333		74.1	30-120			
Fluorene	0.0308	0.00500	"	0.0333		92.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0356	0.00500	"	0.0333		107	30-120			
Pyrene	0.0293	0.00500	"	0.0333		88.0	35-142			
1-Methylnaphthalene	0.0120	0.00500	"	0.0333		36.1	35-142			
2-Methylnaphthalene	0.0210	0.00500	"	0.0333		63.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0311		"	0.0333		93.2	40-150			
Surrogate: Fluoranthene-d10	0.0176		"	0.0333		52.7	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0316 - EPA 5030 Soil MS

Matrix Spike (BFJ0316-MS1)

Source: 2210166-01

Prepared & Analyzed: 10/13/22

Acenaphthene	0.0239	0.00500	mg/kg	0.0333	ND	71.8	31-137		
Anthracene	0.0190	0.00500	"	0.0333	ND	56.9	30-120		
Benzo (a) anthracene	0.0241	0.00500	"	0.0333	ND	72.3	30-120		
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120		
Benzo (b) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.7	30-120		
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.3	30-120		
Chrysene	0.0186	0.00500	"	0.0333	ND	55.8	30-120		
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	44.9	30-120		
Fluoranthene	0.0283	0.00500	"	0.0333	ND	85.0	30-120		
Fluorene	0.0192	0.00500	"	0.0333	ND	57.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0214	0.00500	"	0.0333	ND	64.1	30-120		
Pyrene	0.0205	0.00500	"	0.0333	ND	61.5	35-142		
1-Methylnaphthalene	0.00742	0.00500	"	0.0333	ND	22.3	15-130		
2-Methylnaphthalene	0.0130	0.00500	"	0.0333	ND	38.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0211		"	0.0333		63.3	40-150		
Surrogate: Fluoranthene-d10	0.0311		"	0.0333		93.2	40-150		

Matrix Spike Dup (BFJ0316-MSD1)

Source: 2210166-01

Prepared & Analyzed: 10/13/22

Acenaphthene	0.0200	0.00500	mg/kg	0.0333	ND	60.0	31-137	17.8	30
Anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	7.58	30
Benzo (a) anthracene	0.0234	0.00500	"	0.0333	ND	70.2	30-120	2.95	30
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	6.67	30
Benzo (b) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.3	30-120	0.793	30
Benzo (k) fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	1.34	30
Chrysene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	9.27	30
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.1	30-120	8.86	30
Fluoranthene	0.0211	0.00500	"	0.0333	ND	63.2	30-120	29.3	30
Fluorene	0.0162	0.00500	"	0.0333	ND	48.6	30-120	17.1	30
Indeno (1,2,3-cd) pyrene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	10.2	30
Pyrene	0.0211	0.00500	"	0.0333	ND	63.2	35-142	2.86	30
1-Methylnaphthalene	0.00716	0.00500	"	0.0333	ND	21.5	15-130	3.59	50
2-Methylnaphthalene	0.0125	0.00500	"	0.0333	ND	37.5	15-130	3.59	50
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333		70.4	40-150		
Surrogate: Fluoranthene-d10	0.0227		"	0.0333		68.0	40-150		

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

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

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

Batch BFJ0321 - EPA 3050B

Blank (BFJ0321-BLK1)

Prepared: 10/13/22 Analyzed: 10/14/22

Boron ND 0.0100 mg/L

LCS (BFJ0321-BS1)

Prepared: 10/13/22 Analyzed: 10/14/22

Boron 5.65 0.0100 mg/L 5.00 113 80-120

Duplicate (BFJ0321-DUP1)

Source: 2210166-01

Prepared: 10/13/22 Analyzed: 10/14/22

Boron 0.374 0.0100 mg/L 0.421 11.7 20

Matrix Spike (BFJ0321-MS1)

Source: 2210166-01

Prepared: 10/13/22 Analyzed: 10/14/22

Boron 5.34 0.0100 mg/L 5.00 0.421 98.3 75-125

Matrix Spike Dup (BFJ0321-MSD1)

Source: 2210166-01

Prepared: 10/13/22 Analyzed: 10/14/22

Boron 5.62 0.0100 mg/L 5.00 0.421 104 75-125 5.27 25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0337 - EPA 3050B

Blank (BFJ0337-BLK1)

Prepared: 10/13/22 Analyzed: 10/14/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFJ0337-BS1)

Prepared: 10/13/22 Analyzed: 10/14/22

Arsenic	39.9	0.200	mg/kg wet	40.0	99.7	80-120
Barium	35.7	0.400	"	40.0	89.2	80-120
Cadmium	1.87	0.200	"	2.00	93.3	80-120
Copper	46.4	0.400	"	40.0	116	80-120
Lead	18.3	0.200	"	20.0	91.6	80-120
Nickel	43.1	0.400	"	40.0	108	80-120
Selenium	4.77	0.260	"	4.00	119	80-120
Silver	2.03	0.0200	"	2.00	102	80-120
Zinc	43.1	0.400	"	40.0	108	80-120

Duplicate (BFJ0337-DUP1)

Source: 2210154-40

Prepared: 10/13/22 Analyzed: 10/14/22

Arsenic	1.66	0.242	mg/kg dry	1.64	0.881	20
Barium	47.5	0.484	"	48.0	1.11	20
Cadmium	0.206	0.242	"	0.198	4.32	20
Copper	6.20	0.484	"	5.94	4.33	20
Lead	7.23	0.242	"	7.31	1.10	20
Nickel	6.80	0.484	"	6.86	0.794	20
Selenium	ND	0.315	"	ND		20
Silver	0.189	0.0242	"	0.156	19.1	20
Zinc	27.2	0.484	"	26.9	1.10	20

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0337 - EPA 3050B

Matrix Spike (BFJ0337-MS1)

Source: 2210154-40

Prepared: 10/13/22 Analyzed: 10/15/22

Arsenic	16.3	0.242	mg/kg dry	48.4	1.64	30.2	75-125			QM-05
Barium	88.2	0.484	"	48.4	48.0	83.1	75-125			
Cadmium	2.16	0.242	"	2.42	0.198	81.0	75-125			
Copper	37.7	0.484	"	48.4	5.94	65.7	75-125			QM-05
Lead	26.2	0.242	"	24.2	7.31	78.0	75-125			
Nickel	36.3	0.484	"	48.4	6.86	60.9	75-125			QM-05
Selenium	5.13	0.315	"	4.84	ND	106	75-125			
Silver	2.13	0.0242	"	2.42	0.156	81.6	75-125			
Zinc	55.8	0.484	"	48.4	26.9	59.8	75-125			QM-05

Matrix Spike Dup (BFJ0337-MSD1)

Source: 2210154-40

Prepared: 10/13/22 Analyzed: 10/15/22

Arsenic	16.3	0.242	mg/kg dry	48.4	1.64	30.3	75-125	0.160	25	QM-05
Barium	89.1	0.484	"	48.4	48.0	84.9	75-125	1.03	25	
Cadmium	2.17	0.242	"	2.42	0.198	81.5	75-125	0.537	25	
Copper	37.8	0.484	"	48.4	5.94	65.8	75-125	0.155	25	QM-05
Lead	26.8	0.242	"	24.2	7.31	80.4	75-125	2.21	25	
Nickel	36.7	0.484	"	48.4	6.86	61.6	75-125	0.914	25	QM-05
Selenium	5.30	0.315	"	4.84	ND	109	75-125	3.19	25	
Silver	2.16	0.0242	"	2.42	0.156	82.6	75-125	1.11	25	
Zinc	56.3	0.484	"	48.4	26.9	60.8	75-125	0.882	25	QM-05

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0311 - 3060A Mod

Blank (BFJ0311-BLK1)

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0311-BS1)

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 21.8 0.30 mg/kg wet 25.0 87.0 80-120

Duplicate (BFJ0311-DUP1)

Source: 2210089-01

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0311-MS1)

Source: 2210089-01

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 27.4 0.30 mg/kg dry 26.6 ND 103 75-125

Matrix Spike Dup (BFJ0311-MSD1)

Source: 2210089-01

Prepared: 10/12/22 Analyzed: 10/13/22

Chromium, Hexavalent 24.9 0.30 mg/kg dry 26.6 ND 93.6 75-125 9.37 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

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

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

Batch BFJ0412 - General Preparation

Blank (BFJ0412-BLK1)

Prepared: 10/17/22 Analyzed: 10/18/22

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

LCS (BFJ0412-BS1)

Prepared: 10/17/22 Analyzed: 10/18/22

Calcium	6.05	0.0500	mg/L wet	5.00	121	70-130
Magnesium	5.67	0.0500	"	5.00	113	70-130
Sodium	5.54	0.0500	"	5.00	111	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

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

Summit Scientific

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

Batch BFJ0361 - General Preparation

Duplicate (BFJ0361-DUP1)

Source: 2209455-01

Prepared & Analyzed: 10/14/22

% Solids	89.7	%	90.7	1.13	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

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

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

Batch BFJ0445 - General Preparation

Blank (BFJ0445-BLK1)

Prepared: 10/18/22 Analyzed: 10/19/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0445-BS1)

Prepared: 10/18/22 Analyzed: 10/19/22

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

Duplicate (BFJ0445-DUP1)

Source: 2210148-01

Prepared: 10/18/22 Analyzed: 10/19/22

Specific Conductance (EC) 4.39 0.0100 mmhos/cm 4.39 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

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

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

Batch BFJ0446 - General Preparation

LCS (BFJ0446-BS1)

Prepared & Analyzed: 10/18/22

pH	8.94	pH Units	9.18	97.4	95-105
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Duplicate (BFJ0446-DUP1)

Source: 2210148-01

Prepared & Analyzed: 10/18/22

pH	7.29	pH Units	7.27	0.275	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 09:07

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 20, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210201

Enclosed are the results of analyses for samples received by Summit Scientific on 10/13/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B09@11'	2210201-01	Soil	10/13/22 00:00	10/13/22 16:00
S05@10'	2210201-02	Soil	10/13/22 00:00	10/13/22 16:00
S06@10'	2210201-03	Soil	10/13/22 00:00	10/13/22 16:00
W03@10'	2210201-04	Soil	10/13/22 00:00	10/13/22 16:00

Summit Scientific

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

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

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

City/State/Zip:

Bill to: Noble

Phone:

Project Name: Branch 1-3

Sampler Name:

Chris Latter

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD		
1	B09 @ 11'	10/13/22		3			X			X				X	X	X	X	X			
2	S02 @ 10'	↓		↓			↓			↓				↓	↓	↓	↓	↓			
3	S03 @ 10'	↓		↓			↓			↓				↓	↓	↓	↓	↓			
4	W03 @ 10'	10/13/22		3			X			X				X	X	X	X	X			
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
Chris Latter	10/13/22 15:10	Summit	10/13/22 1510	Same Day	X 72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
Summit	10/13/22 1600	[Signature]	10/13/22 1600	48 hours		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	Temperature Upon Receipt:	
					8.3	
				Samples Intact:	Yes No	

S₂

Sample Receipt Checklist

S2 Work Order#

221020/

Client: FremontClient Project ID: Branch 1-3

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

Airbill #:

☐ ☐ - ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

8.3

Thermometer #

1

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

Additional Comments (if any):

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

Custodian Printed Name

Date/Time

10/13/22

23:00



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

B09@11'
2210201-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0343	10/13/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0344	"	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

B09@11'
2210201-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0345	10/14/22	10/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		76.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.469	0.0100	mg/L	1	BFJ0400	10/17/22	10/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

B09@11'
2210201-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.38	0.241	mg/kg dry	1	BFJ0349	10/14/22	10/16/22	EPA 6020B
Barium	44.0	0.483	"	"	"	"	"	"
Cadmium	ND	0.241	"	"	"	"	"	"
Copper	8.09	0.483	"	"	"	"	"	"
Lead	14.7	0.241	"	"	"	"	"	"
Nickel	8.44	0.483	"	"	"	"	"	"
Selenium	ND	0.314	"	"	"	"	"	"
Silver	0.0367	0.0241	"	"	"	"	"	"
Zinc	37.7	0.483	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

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

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	88.6	0.0603	mg/L dry	1	BFJ0412	10/17/22	10/18/22	EPA 6020B	
Magnesium	169	0.0603	"	"	"	"	"	"	
Sodium	531	0.0603	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.63	0.00100	units	1	BFJ0494	10/19/22	10/19/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

B09@11'
2210201-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.9		%	1	BFJ0393	10/17/22	10/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.31	0.0100	mmhos/cm	1	BFJ0445	10/18/22	10/19/22	EPA 120.1	

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

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BFJ0446	10/18/22	10/18/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

S05@10'
2210201-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0343	10/13/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		97.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0344	"	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		83.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

S05@10'
2210201-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0345	10/14/22	10/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		79.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.865	0.0100	mg/L	1	BFJ0400	10/17/22	10/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

S05@10'
2210201-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.98	0.241	mg/kg dry	1	BFJ0349	10/14/22	10/16/22	EPA 6020B
Barium	29.4	0.482	"	"	"	"	"	"
Cadmium	ND	0.241	"	"	"	"	"	"
Copper	8.42	0.482	"	"	"	"	"	"
Lead	15.9	0.241	"	"	"	"	"	"
Nickel	8.53	0.482	"	"	"	"	"	"
Selenium	ND	0.313	"	"	"	"	"	"
Silver	0.0366	0.0241	"	"	"	"	"	"
Zinc	37.0	0.482	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

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

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.7	0.0602	mg/L dry	1	BFJ0412	10/17/22	10/18/22	EPA 6020B	
Magnesium	100	0.0602	"	"	"	"	"	"	
Sodium	589	0.0602	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.1	0.00100	units	1	BFJ0494	10/19/22	10/19/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

S05@10'
2210201-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BFJ0393	10/17/22	10/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.98	0.0100	mmhos/cm	1	BFJ0445	10/18/22	10/19/22	EPA 120.1	

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

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BFJ0446	10/18/22	10/18/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

S06@10'
2210201-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0343	10/13/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0344	"	10/13/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		85.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

S06@10'
2210201-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0345	10/14/22	10/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		76.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.452	0.0100	mg/L	1	BFJ0400	10/17/22	10/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/22 00:00**

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



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

S06@10'
2210201-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.92	0.237	mg/kg dry	1	BFJ0349	10/14/22	10/16/22	EPA 6020B
Barium	42.2	0.475	"	"	"	"	"	"
Cadmium	ND	0.237	"	"	"	"	"	"
Copper	7.72	0.475	"	"	"	"	"	"
Lead	13.4	0.237	"	"	"	"	"	"
Nickel	8.18	0.475	"	"	"	"	"	"
Selenium	ND	0.308	"	"	"	"	"	"
Silver	0.0308	0.0237	"	"	"	"	"	"
Zinc	35.6	0.475	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

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

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.8	0.0593	mg/L dry	1	BFJ0412	10/17/22	10/18/22	EPA 6020B	
Magnesium	61.1	0.0593	"	"	"	"	"	"	
Sodium	289	0.0593	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.02	0.00100	units	1	BFJ0494	10/19/22	10/19/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

S06@10'
2210201-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.3		%	1	BFJ0393	10/17/22	10/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.58	0.0100	mmhos/cm	1	BFJ0445	10/18/22	10/19/22	EPA 120.1	

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

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BFJ0446	10/18/22	10/18/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

W03@10'
2210201-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0343	10/13/22	10/13/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0344	"	10/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

W03@10'
2210201-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0345	10/14/22	10/16/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.552	0.0100	mg/L	1	BFJ0400	10/17/22	10/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/13/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

W03@10'
2210201-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.44	0.241	mg/kg dry	1	BFJ0349	10/14/22	10/16/22	EPA 6020B
Barium	44.4	0.481	"	"	"	"	"	"
Cadmium	ND	0.241	"	"	"	"	"	"
Copper	6.96	0.481	"	"	"	"	"	"
Lead	13.8	0.241	"	"	"	"	"	"
Nickel	7.78	0.481	"	"	"	"	"	"
Selenium	ND	0.313	"	"	"	"	"	"
Silver	0.0366	0.0241	"	"	"	"	"	"
Zinc	33.9	0.481	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

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

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.0	0.0602	mg/L dry	1	BFJ0412	10/17/22	10/18/22	EPA 6020B	
Magnesium	87.9	0.0602	"	"	"	"	"	"	
Sodium	401	0.0602	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.03	0.00100	units	1	BFJ0494	10/19/22	10/19/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

W03@10'
2210201-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BFJ0393	10/17/22	10/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.17	0.0100	mmhos/cm	1	BFJ0445	10/18/22	10/19/22	EPA 120.1	

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

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BFJ0446	10/18/22	10/18/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0343 - EPA 5030 Soil MS

Blank (BFJ0343-BLK1)

Prepared & Analyzed: 10/13/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0538		"	0.0400		134	50-150			
Surrogate: Toluene-d8	0.0418		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0438		"	0.0400		110	50-150			

LCS (BFJ0343-BS1)

Prepared & Analyzed: 10/13/22

Benzene	0.0773	0.0020	mg/kg	0.0750		103	70-130			
Toluene	0.0779	0.0050	"	0.0750		104	70-130			
Ethylbenzene	0.0768	0.0050	"	0.0750		102	70-130			
m,p-Xylene	0.154	0.010	"	0.150		103	70-130			
o-Xylene	0.0773	0.0050	"	0.0750		103	70-130			
1,2,4-Trimethylbenzene	0.0824	0.0050	"	0.0750		110	70-130			
1,3,5-Trimethylbenzene	0.0792	0.0050	"	0.0750		106	70-130			
Naphthalene	0.0919	0.0038	"	0.0750		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0514		"	0.0400		128	50-150			
Surrogate: Toluene-d8	0.0426		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0455		"	0.0400		114	50-150			

Matrix Spike (BFJ0343-MS1)

Source: 2210199-02

Prepared & Analyzed: 10/13/22

Benzene	0.0668	0.0020	mg/kg	0.0750	ND	89.1	70-130			
Toluene	0.0744	0.0050	"	0.0750	ND	99.2	70-130			
Ethylbenzene	0.0782	0.0050	"	0.0750	ND	104	70-130			
m,p-Xylene	0.157	0.010	"	0.150	0.00843	98.8	70-130			
o-Xylene	0.0793	0.0050	"	0.0750	ND	106	70-130			
1,2,4-Trimethylbenzene	0.0863	0.0050	"	0.0750	0.00477	109	70-130			
1,3,5-Trimethylbenzene	0.0853	0.0050	"	0.0750	ND	114	70-130			
Naphthalene	0.0700	0.0038	"	0.0750	ND	93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0498		"	0.0400		124	50-150			
Surrogate: Toluene-d8	0.0441		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0436		"	0.0400		109	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0343 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0343-MSD1)

Source: 2210199-02

Prepared: 10/13/22 Analyzed: 10/14/22

Benzene	0.0753	0.0020	mg/kg	0.0750	ND	100	70-130	11.9	30	
Toluene	0.0788	0.0050	"	0.0750	ND	105	70-130	5.64	30	
Ethylbenzene	0.0749	0.0050	"	0.0750	ND	99.8	70-130	4.27	30	
m,p-Xylene	0.151	0.010	"	0.150	0.00843	95.2	70-130	3.51	30	
o-Xylene	0.0774	0.0050	"	0.0750	ND	103	70-130	2.41	30	
1,2,4-Trimethylbenzene	0.0854	0.0050	"	0.0750	0.00477	107	70-130	1.05	30	
1,3,5-Trimethylbenzene	0.0818	0.0050	"	0.0750	ND	109	70-130	4.13	30	
Naphthalene	0.0773	0.0038	"	0.0750	ND	103	70-130	9.94	30	
Surrogate: 1,2-Dichloroethane-d4	0.0550		"	0.0400		138	50-150			
Surrogate: Toluene-d8	0.0440		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0454		"	0.0400		114	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0344 - EPA 3550A

Blank (BFJ0344-BLK1)

Prepared: 10/13/22 Analyzed: 10/14/22

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

LCS (BFJ0344-BS1)

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	523	50	mg/kg	500	105	70-130
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Matrix Spike (BFJ0344-MS1)

Source: 2210199-02

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	586	50	mg/kg	500	21.2	113	70-130
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Matrix Spike Dup (BFJ0344-MSD1)

Source: 2210199-02

Prepared: 10/13/22 Analyzed: 10/14/22

C10-C28 (DRO)	647	50	mg/kg	500	21.2	125	70-130	9.77	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0345 - EPA 5030 Soil MS

Blank (BFJ0345-BLK1)

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0417		"	0.0333		125	40-150			
Surrogate: Fluoranthene-d10	0.0350		"	0.0333		105	40-150			

LCS (BFJ0345-BS1)

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	0.0372	0.00500	mg/kg	0.0333		112	31-137			
Anthracene	0.0385	0.00500	"	0.0333		115	30-120			
Benzo (a) anthracene	0.0334	0.00500	"	0.0333		100	30-120			
Benzo (a) pyrene	0.0328	0.00500	"	0.0333		98.3	30-120			
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333		73.0	30-120			
Benzo (k) fluoranthene	0.0234	0.00500	"	0.0333		70.3	30-120			
Chrysene	0.0331	0.00500	"	0.0333		99.2	30-120			
Dibenz (a,h) anthracene	0.0267	0.00500	"	0.0333		80.0	30-120			
Fluoranthene	0.0303	0.00500	"	0.0333		90.8	30-120			
Fluorene	0.0248	0.00500	"	0.0333		74.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0305	0.00500	"	0.0333		91.5	30-120			
Pyrene	0.0219	0.00500	"	0.0333		65.7	35-142			
1-Methylnaphthalene	0.0355	0.00500	"	0.0333		106	35-142			
2-Methylnaphthalene	0.0447	0.00500	"	0.0333		134	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0378		"	0.0333		113	40-150			
Surrogate: Fluoranthene-d10	0.0460		"	0.0333		138	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0345 - EPA 5030 Soil MS

Matrix Spike (BFJ0345-MS1)

Source: 2210184-01

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	0.0245	0.00500	mg/kg	0.0333	ND	73.5	31-137		
Anthracene	0.0253	0.00500	"	0.0333	0.00337	65.7	30-120		
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	0.00371	64.4	30-120		
Benzo (a) pyrene	0.0249	0.00500	"	0.0333	0.00280	66.2	30-120		
Benzo (b) fluoranthene	0.0185	0.00500	"	0.0333	0.00143	51.3	30-120		
Benzo (k) fluoranthene	0.0177	0.00500	"	0.0333	0.00113	49.7	30-120		
Chrysene	0.0246	0.00500	"	0.0333	0.00365	62.8	30-120		
Dibenz (a,h) anthracene	0.0303	0.00500	"	0.0333	ND	90.9	30-120		
Fluoranthene	0.0316	0.00500	"	0.0333	0.00205	88.7	30-120		
Fluorene	0.0125	0.00500	"	0.0333	ND	37.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0277	0.00500	"	0.0333	0.00172	77.9	30-120		
Pyrene	0.0167	0.00500	"	0.0333	0.00319	40.4	35-142		
1-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.4	15-130		
2-Methylnaphthalene	0.0260	0.00500	"	0.0333	ND	78.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0236		"	0.0333		70.8	40-150		
Surrogate: Fluoranthene-d10	0.0308		"	0.0333		92.5	40-150		

Matrix Spike Dup (BFJ0345-MSD1)

Source: 2210184-01

Prepared: 10/14/22 Analyzed: 10/15/22

Acenaphthene	0.0256	0.00500	mg/kg	0.0333	ND	76.8	31-137	4.37	30
Anthracene	0.0247	0.00500	"	0.0333	0.00337	63.9	30-120	2.44	30
Benzo (a) anthracene	0.0237	0.00500	"	0.0333	0.00371	59.8	30-120	6.25	30
Benzo (a) pyrene	0.0233	0.00500	"	0.0333	0.00280	61.6	30-120	6.37	30
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	0.00143	47.8	30-120	6.56	30
Benzo (k) fluoranthene	0.0168	0.00500	"	0.0333	0.00113	47.0	30-120	5.20	30
Chrysene	0.0229	0.00500	"	0.0333	0.00365	57.9	30-120	6.97	30
Dibenz (a,h) anthracene	0.0312	0.00500	"	0.0333	ND	93.7	30-120	3.01	30
Fluoranthene	0.0288	0.00500	"	0.0333	0.00205	80.2	30-120	9.47	30
Fluorene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	15.2	30
Indeno (1,2,3-cd) pyrene	0.0266	0.00500	"	0.0333	0.00172	74.7	30-120	3.93	30
Pyrene	0.0155	0.00500	"	0.0333	0.00319	37.1	35-142	6.96	30
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	70.0	15-130	0.826	50
2-Methylnaphthalene	0.0254	0.00500	"	0.0333	ND	76.3	15-130	2.28	50
Surrogate: 2-Methylnaphthalene-d10	0.0225		"	0.0333		67.5	40-150		
Surrogate: Fluoranthene-d10	0.0290		"	0.0333		87.0	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

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

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

Batch BFJ0400 - EPA 3050B

Blank (BFJ0400-BLK1)

Prepared: 10/17/22 Analyzed: 10/18/22

Boron ND 0.0100 mg/L

LCS (BFJ0400-BS1)

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 5.46 0.0100 mg/L 5.00 109 80-120

Duplicate (BFJ0400-DUP1)

Source: 2210201-01

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 0.476 0.0100 mg/L 0.469 1.47 20

Matrix Spike (BFJ0400-MS1)

Source: 2210201-01

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 5.79 0.0100 mg/L 5.00 0.469 106 75-125

Matrix Spike Dup (BFJ0400-MSD1)

Source: 2210201-01

Prepared: 10/17/22 Analyzed: 10/18/22

Boron 5.90 0.0100 mg/L 5.00 0.469 109 75-125 1.91 25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0349 - EPA 3050B

Blank (BFJ0349-BLK1)

Prepared: 10/14/22 Analyzed: 10/16/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFJ0349-BS1)

Prepared: 10/14/22 Analyzed: 10/16/22

Arsenic	38.9	0.200	mg/kg wet	40.0	97.2	80-120
Barium	34.2	0.400	"	40.0	85.6	80-120
Cadmium	1.70	0.200	"	2.00	85.2	80-120
Copper	40.1	0.400	"	40.0	100	80-120
Lead	16.6	0.200	"	20.0	83.1	80-120
Nickel	38.1	0.400	"	40.0	95.2	80-120
Selenium	3.87	0.260	"	4.00	96.8	80-120
Silver	1.73	0.0200	"	2.00	86.4	80-120
Zinc	38.4	0.400	"	40.0	95.9	80-120

Duplicate (BFJ0349-DUP1)

Source: 2210171-01

Prepared: 10/14/22 Analyzed: 10/16/22

Arsenic	1.15	0.229	mg/kg dry	1.19	3.33	20
Barium	126	0.457	"	113	11.3	20
Cadmium	0.260	0.229	"	0.249	4.32	20
Copper	6.97	0.457	"	7.37	5.56	20
Lead	8.25	0.229	"	7.61	8.01	20
Nickel	6.04	0.457	"	6.27	3.73	20
Selenium	0.388	0.297	"	0.461	17.3	20
Silver	0.0201	0.0229	"	0.0192	4.65	20
Zinc	22.8	0.457	"	22.3	2.23	20

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0349 - EPA 3050B

Matrix Spike (BFJ0349-MS1)

Source: 2210171-01

Prepared: 10/14/22 Analyzed: 10/16/22

Arsenic	40.2	0.229	mg/kg dry	45.7	1.19	85.3	75-125
Barium	155	0.457	"	45.7	113	92.8	75-125
Cadmium	2.20	0.229	"	2.29	0.249	85.5	75-125
Copper	43.0	0.457	"	45.7	7.37	77.9	75-125
Lead	29.5	0.229	"	22.9	7.61	95.6	75-125
Nickel	43.5	0.457	"	45.7	6.27	81.4	75-125
Selenium	4.63	0.297	"	4.57	0.461	91.3	75-125
Silver	1.88	0.0229	"	2.29	0.0192	81.6	75-125
Zinc	69.9	0.457	"	45.7	22.3	104	75-125

Matrix Spike Dup (BFJ0349-MSD1)

Source: 2210171-01

Prepared: 10/14/22 Analyzed: 10/16/22

Arsenic	44.8	0.229	mg/kg dry	45.7	1.19	95.5	75-125	11.0	25
Barium	161	0.457	"	45.7	113	106	75-125	3.76	25
Cadmium	2.27	0.229	"	2.29	0.249	88.3	75-125	2.90	25
Copper	43.0	0.457	"	45.7	7.37	78.0	75-125	0.111	25
Lead	30.1	0.229	"	22.9	7.61	98.3	75-125	2.03	25
Nickel	43.7	0.457	"	45.7	6.27	81.9	75-125	0.587	25
Selenium	4.93	0.297	"	4.57	0.461	97.8	75-125	6.16	25
Silver	1.93	0.0229	"	2.29	0.0192	83.7	75-125	2.59	25
Zinc	70.1	0.457	"	45.7	22.3	105	75-125	0.277	25

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0416 - 3060A Mod

Blank (BFJ0416-BLK1)

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0416-BS1)

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BFJ0416-DUP1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0416-MS1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 37.6 0.30 mg/kg dry 29.5 ND 127 75-125 QM-05

Matrix Spike Dup (BFJ0416-MSD1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 46.1 0.30 mg/kg dry 29.5 ND 156 75-125 20.3 20 QM-05

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

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

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

Batch BFJ0412 - General Preparation

Blank (BFJ0412-BLK1)

Prepared: 10/17/22 Analyzed: 10/18/22

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

LCS (BFJ0412-BS1)

Prepared: 10/17/22 Analyzed: 10/18/22

Calcium	6.05	0.0500	mg/L wet	5.00	121	70-130
Magnesium	5.67	0.0500	"	5.00	113	70-130
Sodium	5.54	0.0500	"	5.00	111	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

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

Summit Scientific

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

Batch BFJ0393 - General Preparation

Duplicate (BFJ0393-DUP1)

Source: 2210195-01

Prepared & Analyzed: 10/17/22

% Solids	95.2	%	95.5	0.337	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

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

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

Batch BFJ0445 - General Preparation

Blank (BFJ0445-BLK1)

Prepared: 10/18/22 Analyzed: 10/19/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0445-BS1)

Prepared: 10/18/22 Analyzed: 10/19/22

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

Duplicate (BFJ0445-DUP1)

Source: 2210148-01

Prepared: 10/18/22 Analyzed: 10/19/22

Specific Conductance (EC) 4.39 0.0100 mmhos/cm 4.39 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

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

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

Batch BFJ0446 - General Preparation

LCS (BFJ0446-BS1)

Prepared & Analyzed: 10/18/22

pH	8.94	pH Units	9.18	97.4	95-105
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Duplicate (BFJ0446-DUP1)

Source: 2210148-01

Prepared & Analyzed: 10/18/22

pH	7.29	pH Units	7.27	0.275	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/20/22 10:31

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 08, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210233

Enclosed are the results of analyses for samples received by Summit Scientific on 10/14/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W01@9'	2210233-01	Soil	10/14/22 00:00	10/14/22 16:00
W05@10'	2210233-02	Soil	10/14/22 00:00	10/14/22 16:00
S08@10'	2210233-04	Soil	10/14/22 00:00	10/14/22 16:00
Stock01	2210233-05	Soil	10/14/22 00:00	10/14/22 16:00

Summit Scientific

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

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

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

City/State/Zip:

Bill to:

Phone:

Project Name: Branch 1-3

Sampler Name: Chris Catter

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD	
1	W01 @ 9'	10/14/22		3			X			X			X	X	X	X				
2	W05 @ 10'			1									X	X	X	X				
3	S07 @ 10'	↓		↓									X	X	X	X			X	← hold
4	S08 @ 10'	10/14/22		↓									X	X	X	X				
5	Stod201	10/14/22		3			X			X			X	X						
6																				
7																				
8																				
9																				
10																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
Chris Catter	15:00 10/14/22	SZ	1500 10/14/22	Same Day	X 72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
SZ	10/14/22 1000	[Signature]	10/14/22 1000	48 hours		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
				Temperature Upon Receipt:	7.1	
				Samples Intact:	Yes No	

S₂

Sample Receipt Checklist

S2 Work Order# 2210233Client: Fremont Client Project ID: Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 7.1Thermometer # 1

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

Additional Comments (if any):

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

Custodian Printed Name

Date/Time

10.14.22

19:35



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

W01@9'
2210233-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.310	0.0100	mg/L	1	BFJ0469	10/18/22	10/20/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.10	0.223	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B	
Barium	50.4	0.446	"	"	"	"	"	"	
Cadmium	0.237	0.223	"	"	"	"	"	"	
Copper	5.31	0.446	"	"	"	"	"	"	
Lead	6.66	0.223	"	"	"	"	"	"	
Nickel	6.33	0.446	"	"	"	"	"	"	
Selenium	ND	0.290	"	"	"	"	"	"	
Silver	ND	0.0223	"	"	"	"	11/05/22	"	
Zinc	21.1	0.446	"	"	"	"	10/18/22	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

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

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.0	0.0557	mg/L dry	1	BFJ0412	10/17/22	10/18/22	EPA 6020B	
Magnesium	19.3	0.0557	"	"	"	"	"	"	
Sodium	175	0.0557	"	"	"	"	"	"	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

W01@9'
2210233-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.33	0.00100	units	1	BFJ0648	10/24/22	10/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.7		%	1	BFJ0392	10/17/22	10/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.846	0.0100	mmhos/cm	1	BFJ0445	10/18/22	10/19/22	EPA 120.1	

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

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BFJ0446	10/18/22	10/18/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

W05@10'
2210233-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0382	10/14/22	10/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0383	10/14/22	10/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

W05@10'
2210233-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0387	10/17/22	10/18/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		80.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.470	0.0100	mg/L	1	BFJ0469	10/18/22	10/20/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/14/22 00:00**

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



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

W05@10'
2210233-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.13	0.238	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B
Barium	34.4	0.476	"	"	"	"	"	"
Cadmium	ND	0.238	"	"	"	"	"	"
Copper	8.86	0.476	"	"	"	"	"	"
Lead	15.8	0.238	"	"	"	"	"	"
Nickel	8.68	0.476	"	"	"	"	"	"
Selenium	ND	0.309	"	"	"	"	"	"
Silver	0.0281	0.0238	"	"	"	"	11/05/22	"
Zinc	39.0	0.476	"	"	"	"	10/18/22	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

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

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.4	0.0595	mg/L dry	1	BFJ0412	10/17/22	10/18/22	EPA 6020B	
Magnesium	161	0.0595	"	"	"	"	"	"	
Sodium	498	0.0595	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.40	0.00100	units	1	BFJ0648	10/24/22	10/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

W05@10'
2210233-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.1		%	1	BFJ0392	10/17/22	10/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.06	0.0100	mmhos/cm	1	BFJ0445	10/18/22	10/19/22	EPA 120.1	

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

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BFJ0446	10/18/22	10/18/22	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

S08@10'
2210233-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0382	10/14/22	10/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0383	10/14/22	10/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/22 00:00**

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

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

S08@10'
2210233-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0387	10/17/22	10/18/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		59.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		99.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.522	0.0100	mg/L	1	BFJ0469	10/18/22	10/20/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/14/22 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 - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

S08@10'
2210233-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.20	0.237	mg/kg dry	1	BFJ0403	10/17/22	10/18/22	EPA 6020B
Barium	57.8	0.474	"	"	"	"	"	"
Cadmium	ND	0.237	"	"	"	"	"	"
Copper	8.12	0.474	"	"	"	"	"	"
Lead	14.3	0.237	"	"	"	"	"	"
Nickel	9.18	0.474	"	"	"	"	"	"
Selenium	ND	0.308	"	"	"	"	"	"
Silver	0.0303	0.0237	"	"	"	"	11/05/22	"
Zinc	39.7	0.474	"	"	"	"	10/18/22	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0416	10/17/22	10/19/22	EPA 7196A	

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

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	80.1	0.0593	mg/L dry	1	BFJ0412	10/17/22	10/18/22	EPA 6020B	
Magnesium	188	0.0593	"	"	"	"	"	"	
Sodium	653	0.0593	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.10	0.00100	units	1	BFJ0648	10/24/22	10/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

S08@10'
2210233-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BFJ0392	10/17/22	10/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.76	0.0100	mmhos/cm	1	BFJ0445	10/18/22	10/19/22	EPA 120.1	

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

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BFJ0446	10/18/22	10/18/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

Stock01
2210233-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0382	10/14/22	10/15/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/14/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0383	10/14/22	10/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/22 00:00**

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

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0382 - EPA 5030 Soil MS

Blank (BFJ0382-BLK1)

Prepared & Analyzed: 10/14/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0400		96.9	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0434		"	0.0400		108	50-150			

LCS (BFJ0382-BS1)

Prepared & Analyzed: 10/14/22

Benzene	0.0792	0.0020	mg/kg	0.100		79.2	70-130			
Toluene	0.100	0.0050	"	0.100		100	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.226	0.010	"	0.200		113	70-130			
o-Xylene	0.0905	0.0050	"	0.100		90.5	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.114	0.0050	"	0.100		114	70-130			
Naphthalene	0.111	0.0038	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

Matrix Spike (BFJ0382-MS1)

Source: 2210230-01

Prepared & Analyzed: 10/14/22

Benzene	0.0769	0.0020	mg/kg	0.100	ND	76.9	70-130			
Toluene	0.0974	0.0050	"	0.100	ND	97.4	70-130			
Ethylbenzene	0.0976	0.0050	"	0.100	ND	97.6	70-130			
m,p-Xylene	0.221	0.010	"	0.200	ND	110	70-130			
o-Xylene	0.0875	0.0050	"	0.100	ND	87.5	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
1,3,5-Trimethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130			
Naphthalene	0.0938	0.0038	"	0.100	ND	93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0411		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0382 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0382-MSD1)	Source: 2210230-01			Prepared & Analyzed: 10/14/22						
Benzene	0.0760	0.0020	mg/kg	0.100	ND	76.0	70-130	1.26	30	
Toluene	0.0974	0.0050	"	0.100	ND	97.4	70-130	0.0308	30	
Ethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130	0.895	30	
m,p-Xylene	0.218	0.010	"	0.200	ND	109	70-130	1.15	30	
o-Xylene	0.0880	0.0050	"	0.100	ND	88.0	70-130	0.547	30	
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	1.36	30	
1,3,5-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130	0.946	30	
Naphthalene	0.0994	0.0038	"	0.100	ND	99.4	70-130	5.84	30	
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0383 - EPA 3550A

Blank (BFJ0383-BLK1)

Prepared: 10/14/22 Analyzed: 10/15/22

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

LCS (BFJ0383-BS1)

Prepared: 10/14/22 Analyzed: 10/15/22

C10-C28 (DRO)	560	50	mg/kg	500	112	70-130
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Matrix Spike (BFJ0383-MS1)

Source: 2210230-01

Prepared: 10/14/22 Analyzed: 10/15/22

C10-C28 (DRO)	537	50	mg/kg	500	10.6	105	70-130
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Matrix Spike Dup (BFJ0383-MSD1)

Source: 2210230-01

Prepared: 10/14/22 Analyzed: 10/15/22

C10-C28 (DRO)	508	50	mg/kg	500	10.6	99.4	70-130	5.55	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3
Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

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

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

Batch BFJ0387 - EPA 5030 Soil MS

Blank (BFJ0387-BLK1)

Prepared & Analyzed: 10/17/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.2	40-150			
Surrogate: Fluoranthene-d10	0.0288		"	0.0333		86.4	40-150			

LCS (BFJ0387-BS1)

Prepared & Analyzed: 10/17/22

Acenaphthene	0.0391	0.00500	mg/kg	0.0333	117	31-137
Anthracene	0.0291	0.00500	"	0.0333	87.2	30-120
Benzo (a) anthracene	0.0307	0.00500	"	0.0333	92.2	30-120
Benzo (a) pyrene	0.0325	0.00500	"	0.0333	97.6	30-120
Benzo (b) fluoranthene	0.0276	0.00500	"	0.0333	82.7	30-120
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	73.8	30-120
Chrysene	0.0330	0.00500	"	0.0333	98.9	30-120
Dibenz (a,h) anthracene	0.0181	0.00500	"	0.0333	54.3	30-120
Fluoranthene	0.0313	0.00500	"	0.0333	93.8	30-120
Fluorene	0.0276	0.00500	"	0.0333	82.7	30-120
Indeno (1,2,3-cd) pyrene	0.0277	0.00500	"	0.0333	83.0	30-120
Pyrene	0.0367	0.00500	"	0.0333	110	35-142
1-Methylnaphthalene	0.0142	0.00500	"	0.0333	42.5	35-142
2-Methylnaphthalene	0.0383	0.00500	"	0.0333	115	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0415		"	0.0333	124	40-150
Surrogate: Fluoranthene-d10	0.0209		"	0.0333	62.7	40-150

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0387 - EPA 5030 Soil MS

Matrix Spike (BFJ0387-MS1)

Source: 2210167-01

Prepared & Analyzed: 10/17/22

Acenaphthene	0.0200	0.00500	mg/kg	0.0333	ND	59.9	31-137		
Anthracene	0.0136	0.00500	"	0.0333	ND	40.8	30-120		
Benzo (a) anthracene	0.0210	0.00500	"	0.0333	ND	63.1	30-120		
Benzo (a) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120		
Benzo (b) fluoranthene	0.0130	0.00500	"	0.0333	ND	38.9	30-120		
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.0	30-120		
Chrysene	0.0176	0.00500	"	0.0333	ND	52.7	30-120		
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.5	30-120		
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.8	30-120		
Fluorene	0.0155	0.00500	"	0.0333	ND	46.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333	ND	46.4	30-120		
Pyrene	0.0210	0.00500	"	0.0333	ND	63.0	35-142		
1-Methylnaphthalene	0.00684	0.00500	"	0.0333	ND	20.5	15-130		
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0194		"	0.0333		58.1	40-150		
Surrogate: Fluoranthene-d10	0.0224		"	0.0333		67.1	40-150		

Matrix Spike Dup (BFJ0387-MSD1)

Source: 2210167-01

Prepared & Analyzed: 10/17/22

Acenaphthene	0.0189	0.00500	mg/kg	0.0333	ND	56.8	31-137	5.23	30
Anthracene	0.0112	0.00500	"	0.0333	ND	33.7	30-120	19.3	30
Benzo (a) anthracene	0.0180	0.00500	"	0.0333	ND	53.9	30-120	15.7	30
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	23.0	30
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	19.9	30
Benzo (k) fluoranthene	0.0124	0.00500	"	0.0333	ND	37.1	30-120	25.6	30
Chrysene	0.0146	0.00500	"	0.0333	ND	43.8	30-120	18.5	30
Dibenz (a,h) anthracene	0.0199	0.00500	"	0.0333	ND	59.6	30-120	18.5	30
Fluoranthene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	20.9	30
Fluorene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	1.68	30
Indeno (1,2,3-cd) pyrene	0.0126	0.00500	"	0.0333	ND	37.9	30-120	20.2	30
Pyrene	0.0186	0.00500	"	0.0333	ND	55.8	35-142	12.1	30
1-Methylnaphthalene	0.00765	0.00500	"	0.0333	ND	22.9	15-130	11.2	50
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.0	15-130	11.2	50
Surrogate: 2-Methylnaphthalene-d10	0.0205		"	0.0333		61.6	40-150		
Surrogate: Fluoranthene-d10	0.0176		"	0.0333		52.7	40-150		

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

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

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

Batch BFJ0469 - EPA 3050B

Blank (BFJ0469-BLK1)

Prepared: 10/18/22 Analyzed: 10/20/22

Boron ND 0.0100 mg/L

LCS (BFJ0469-BS1)

Prepared: 10/18/22 Analyzed: 10/20/22

Boron 5.78 0.0100 mg/L 5.00 116 80-120

Duplicate (BFJ0469-DUP1)

Source: 2210233-01

Prepared: 10/18/22 Analyzed: 10/20/22

Boron 0.305 0.0100 mg/L 0.310 1.65 20

Matrix Spike (BFJ0469-MS1)

Source: 2210233-01

Prepared: 10/18/22 Analyzed: 10/20/22

Boron 5.56 0.0100 mg/L 5.00 0.310 105 75-125

Matrix Spike Dup (BFJ0469-MSD1)

Source: 2210233-01

Prepared: 10/18/22 Analyzed: 10/20/22

Boron 5.52 0.0100 mg/L 5.00 0.310 104 75-125 0.716 25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0403 - EPA 3050B

Blank (BFJ0403-BLK1)

Prepared & Analyzed: 10/17/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFJ0403-BS1)

Prepared & Analyzed: 10/17/22

Arsenic	44.2	0.200	mg/kg wet	40.0	111	80-120
Barium	38.5	0.400	"	40.0	96.2	80-120
Cadmium	1.85	0.200	"	2.00	92.7	80-120
Copper	47.1	0.400	"	40.0	118	80-120
Lead	19.1	0.200	"	20.0	95.5	80-120
Nickel	43.7	0.400	"	40.0	109	80-120
Selenium	4.44	0.260	"	4.00	111	80-120
Silver	1.99	0.0200	"	2.00	99.3	80-120
Zinc	44.4	0.400	"	40.0	111	80-120

Duplicate (BFJ0403-DUP1)

Source: 2210198-27

Prepared & Analyzed: 10/17/22

Arsenic	0.345	0.205	mg/kg dry	0.388	11.9	20	QR-03
Barium	22.8	0.409	"	18.1	22.8	20	
Cadmium	0.0352	0.205	"	0.0303	15.0	20	
Copper	1.41	0.409	"	1.28	9.90	20	
Lead	1.31	0.205	"	1.16	11.6	20	
Nickel	0.724	0.409	"	0.715	1.25	20	
Selenium	ND	0.266	"	ND		20	
Silver	0.829	0.0205	"	0.755	9.41	20	
Zinc	3.96	0.409	"	3.54	11.4	20	

Summit Scientific



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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0403 - EPA 3050B

Matrix Spike (BFJ0403-MS1)			Source: 2210198-27		Prepared & Analyzed: 10/17/22					
Arsenic	20.3	0.205	mg/kg dry	40.9	0.388	48.7	75-125			QM-05
Barium	60.1	0.409	"	40.9	18.1	103	75-125			
Cadmium	2.01	0.205	"	2.05	0.0303	96.9	75-125			
Copper	44.5	0.409	"	40.9	1.28	106	75-125			
Lead	20.9	0.205	"	20.5	1.16	96.7	75-125			
Nickel	41.7	0.409	"	40.9	0.715	100	75-125			
Selenium	4.37	0.266	"	4.09	ND	107	75-125			
Silver	2.87	0.0205	"	2.05	0.755	103	75-125			
Zinc	45.8	0.409	"	40.9	3.54	103	75-125			

Matrix Spike Dup (BFJ0403-MSD1)			Source: 2210198-27		Prepared & Analyzed: 10/17/22					
Arsenic	25.0	0.205	mg/kg dry	40.9	0.388	60.1	75-125	20.6	25	QM-05
Barium	65.8	0.409	"	40.9	18.1	116	75-125	8.96	25	
Cadmium	1.98	0.205	"	2.05	0.0303	95.1	75-125	1.79	25	
Copper	49.6	0.409	"	40.9	1.28	118	75-125	10.9	25	
Lead	22.1	0.205	"	20.5	1.16	102	75-125	5.50	25	
Nickel	50.3	0.409	"	40.9	0.715	121	75-125	18.7	25	
Selenium	4.41	0.266	"	4.09	ND	108	75-125	0.970	25	
Silver	2.80	0.0205	"	2.05	0.755	100	75-125	2.35	25	
Zinc	51.3	0.409	"	40.9	3.54	117	75-125	11.2	25	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0416 - 3060A Mod

Blank (BFJ0416-BLK1)

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0416-BS1)

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BFJ0416-DUP1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0416-MS1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 37.6 0.30 mg/kg dry 29.5 ND 127 75-125 QM-05

Matrix Spike Dup (BFJ0416-MSD1)

Source: 2210120-21

Prepared: 10/17/22 Analyzed: 10/19/22

Chromium, Hexavalent 46.1 0.30 mg/kg dry 29.5 ND 156 75-125 20.3 20 QM-05

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

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

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

Batch BFJ0412 - General Preparation

Blank (BFJ0412-BLK1)

Prepared: 10/17/22 Analyzed: 10/18/22

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

LCS (BFJ0412-BS1)

Prepared: 10/17/22 Analyzed: 10/18/22

Calcium	6.05	0.0500	mg/L wet	5.00	121	70-130
Magnesium	5.67	0.0500	"	5.00	113	70-130
Sodium	5.54	0.0500	"	5.00	111	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

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

Summit Scientific

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

Batch BFJ0392 - General Preparation

Duplicate (BFJ0392-DUP1)

Source: 2210154-01

Prepared & Analyzed: 10/17/22

% Solids	85.2	%	85.0	0.222	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

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

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

Batch BFJ0445 - General Preparation

Blank (BFJ0445-BLK1)

Prepared: 10/18/22 Analyzed: 10/19/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0445-BS1)

Prepared: 10/18/22 Analyzed: 10/19/22

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

Duplicate (BFJ0445-DUP1)

Source: 2210148-01

Prepared: 10/18/22 Analyzed: 10/19/22

Specific Conductance (EC) 4.39 0.0100 mmhos/cm 4.39 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

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

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

Batch BFJ0446 - General Preparation

LCS (BFJ0446-BS1)

Prepared & Analyzed: 10/18/22

pH	8.94	pH Units	9.18	97.4	95-105
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Duplicate (BFJ0446-DUP1)

Source: 2210148-01

Prepared & Analyzed: 10/18/22

pH	7.29	pH Units	7.27	0.275	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/22 12:20

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 18, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2210226

Enclosed are the results of analyses for samples received by Summit Scientific on 10/13/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/18/22 14:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	2210226-01	Water	10/13/22 00:00	10/13/22 16:00

Summit Scientific

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

Summit Scientific

2210226



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

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

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

City/State/Zip:

Bill to: Noble

Phone:

Project Name: Branch 1-3

Sampler Name: Chris Lattus

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested										Special Instructions	
					HCl	HNO3	None	Other	Water	Soil		Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD				
1	GW#1	10/13/22		3	X				X				X										
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes: <u>suspected Groundwater</u>
<u>Chris Lattus</u>	<u>10/13/22</u> <u>15:10</u>	<u>Summit</u>	<u>10/13/22</u> <u>1510</u>	Same Day	72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
<u>Summit</u>	<u>10/13/22</u> <u>1000</u>	<u>[Signature]</u>	<u>10/13/22</u> <u>1000</u>	48 hours	<u>X</u>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
				Temperature Upon Receipt:		
				Samples Intact: <u>(Yes)</u> No		

S₂

Sample Receipt Checklist

S2 Work Order# 2210226Client: Fremont Client Project ID: Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 8.3Thermometer # 1

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

Additional Comments (if any):

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

Custodian Printed Name

Date/Time

10.13.22 24:00



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/18/22 14:51

GW01
2210226-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	28	1.0	ug/l	1	BFJ0407	10/17/22	10/18/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/13/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		99.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/18/22 14:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0407 - EPA 5030 Water MS

Blank (BFJ0407-BLK1)

Prepared: 10/17/22 Analyzed: 10/18/22

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	21-167			

LCS (BFJ0407-BS1)

Prepared: 10/17/22 Analyzed: 10/18/22

Benzene	27.5	1.0	ug/l	33.3		82.5	51-132			
Toluene	33.8	1.0	"	33.3		101	51-138			
Ethylbenzene	29.2	1.0	"	33.3		87.5	58-146			
m,p-Xylene	78.5	2.0	"	66.7		118	57-144			
o-Xylene	31.0	1.0	"	33.3		93.1	53-146			
Naphthalene	29.8	1.0	"	33.3		89.3	70-130			
1,2,4-Trimethylbenzene	32.8	1.0	"	33.3		98.5	70-130			
1,3,5-Trimethylbenzene	34.5	1.0	"	33.3		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		99.6	23-173			
Surrogate: Toluene-d8	14.5		"	13.3		108	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.9	21-167			

Matrix Spike (BFJ0407-MS1)

Source: 2210279-03

Prepared: 10/17/22 Analyzed: 10/18/22

Benzene	33.8	1.0	ug/l	33.3	ND	101	34-141			
Toluene	29.0	1.0	"	33.3	ND	87.0	27-151			
Ethylbenzene	36.6	1.0	"	33.3	ND	110	29-160			
m,p-Xylene	75.0	2.0	"	66.7	ND	113	20-166			
o-Xylene	29.6	1.0	"	33.3	ND	88.9	33-159			
Naphthalene	30.7	1.0	"	33.3	ND	92.0	70-130			
1,2,4-Trimethylbenzene	31.8	1.0	"	33.3	ND	95.5	70-130			
1,3,5-Trimethylbenzene	34.5	1.0	"	33.3	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	21-167			

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/18/22 14:51

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 BFJ0407 - EPA 5030 Water MS

Matrix Spike Dup (BFJ0407-MSD1)	Source: 2210279-03			Prepared: 10/17/22 Analyzed: 10/18/22						
Benzene	33.1	1.0	ug/l	33.3	ND	99.4	34-141	1.97	30	
Toluene	34.9	1.0	"	33.3	ND	105	27-151	18.3	30	
Ethylbenzene	35.8	1.0	"	33.3	ND	107	29-160	2.18	30	
m,p-Xylene	76.5	2.0	"	66.7	ND	115	20-166	1.94	30	
o-Xylene	31.1	1.0	"	33.3	ND	93.2	33-159	4.71	30	
Naphthalene	35.6	1.0	"	33.3	ND	107	70-130	14.9	30	
1,2,4-Trimethylbenzene	27.6	1.0	"	33.3	ND	82.7	70-130	14.4	30	
1,3,5-Trimethylbenzene	26.3	1.0	"	33.3	ND	78.8	70-130	27.1	30	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	21-167			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/18/22 14:51

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 04, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Branch 1-3
Work Order #2209415

Enclosed are the results of analyses for samples received by Summit Scientific on 09/21/22 14:37. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading "Mikayla Axtell", is displayed on a dark gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@7.0'	2209415-01	Soil	09/21/22 00:00	09/21/22 14:37

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

2209415

S₂

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

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henahan

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

jeff@fremontenv.com

Phone:

Project Name: Branch 1-2

Sampler Name: JL

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	EC, pH, SAR	Boron	Metals (915)						
1	BK601@7.0'	09/21/22		1			X			X			X	X							
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>09/21/22 1437</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9.21.22 1437</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Bill to Noble
				24 hours <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Temperature Upon Receipt: <u>23.4</u>	Corrected Temperature <u> </u>	HNO ₃ lot # <u> </u>	Sample Integrity:	Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
IR gun correction: <u> </u>	IR gun #: <u> </u>				

S₂

Sample Receipt Checklist

S2 Work Order# 2209415

Client: Fremont Env Client Project ID: Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 23.4Thermometer # 2

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

Additional Comments (if any):

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

9.21.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

BKG01@7.0'
2209415-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.261	0.0100	mg/L	1	BF10717	09/28/22	09/30/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.16	0.218	mg/kg dry	1	BF10686	09/26/22	10/01/22	EPA 6020B	
Barium	31.1	0.436	"	"	"	"	"	"	
Cadmium	ND	0.218	"	"	"	"	"	"	
Copper	5.20	0.436	"	"	"	"	"	"	
Lead	5.12	0.218	"	"	"	"	"	"	
Nickel	6.49	0.436	"	"	"	"	"	"	
Selenium	0.487	0.284	"	"	"	"	"	"	
Silver	ND	0.0218	"	"	"	"	"	"	
Zinc	29.1	0.436	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0016	10/03/22	10/03/22	EPA 7196A	

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

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.4	0.0546	mg/L dry	1	BF10729	09/28/22	09/29/22	EPA 6020B	
Magnesium	84.0	0.0546	"	"	"	"	"	"	
Sodium	363	0.0546	"	"	"	"	"	"	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

BKG01@7.0'
2209415-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.20	0.00100	units	1	BF10805	09/30/22	09/30/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BF10726	09/28/22	09/30/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.00	0.0100	mmhos/cm	1	BF10743	09/28/22	09/30/22	EPA 120.1	

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

Date Sampled: **09/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BF10744	09/28/22	09/30/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

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

Summit Scientific

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

Batch BFI0717 - EPA 3050B

Blank (BFI0717-BLK1)

Prepared: 09/28/22 Analyzed: 09/30/22

Boron ND 0.0100 mg/L

LCS (BFI0717-BS1)

Prepared: 09/28/22 Analyzed: 09/30/22

Boron 4.74 0.0100 mg/L 5.00 94.8 80-120

Duplicate (BFI0717-DUP1)

Source: 2209411-01

Prepared: 09/28/22 Analyzed: 09/30/22

Boron 0.215 0.0100 mg/L 0.219 1.93 20

Matrix Spike (BFI0717-MS1)

Source: 2209411-01

Prepared: 09/28/22 Analyzed: 09/30/22

Boron 4.72 0.0100 mg/L 5.00 0.219 90.0 75-125

Matrix Spike Dup (BFI0717-MSD1)

Source: 2209411-01

Prepared: 09/28/22 Analyzed: 09/30/22

Boron 4.76 0.0100 mg/L 5.00 0.219 90.9 75-125 0.934 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0686 - EPA 3050B

Blank (BFI0686-BLK1)

Prepared: 09/26/22 Analyzed: 10/01/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BFI0686-BS1)

Prepared: 09/26/22 Analyzed: 10/01/22

Arsenic	45.5	0.200	mg/kg wet	40.0	114	80-120
Barium	44.1	0.400	"	40.0	110	80-120
Cadmium	2.17	0.200	"	2.00	109	80-120
Copper	44.4	0.400	"	40.0	111	80-120
Lead	20.6	0.200	"	20.0	103	80-120
Nickel	44.1	0.400	"	40.0	110	80-120
Selenium	4.17	0.260	"	4.00	104	80-120
Silver	2.14	0.0200	"	2.00	107	80-120
Zinc	45.3	0.400	"	40.0	113	80-120

Duplicate (BFI0686-DUP1)

Source: 2209132-01

Prepared: 09/26/22 Analyzed: 10/01/22

Arsenic	5.14	0.259	mg/kg dry	4.94	3.91	20
Barium	196	0.518	"	212	7.53	20
Cadmium	0.472	0.259	"	0.520	9.67	20
Copper	19.9	0.518	"	19.5	1.87	20
Lead	12.9	0.259	"	14.1	8.79	20
Nickel	18.3	0.518	"	17.7	3.42	20
Selenium	1.21	0.336	"	1.05	14.9	20
Silver	0.0603	0.0259	"	0.0686	12.8	20
Zinc	67.8	0.518	"	66.7	1.62	20

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0686 - EPA 3050B

Matrix Spike (BFI0686-MS1)		Source: 2209132-01			Prepared: 09/26/22 Analyzed: 10/01/22					
Arsenic	61.0	0.259	mg/kg dry	51.8	4.94	108	75-125			
Barium	197	0.518	"	51.8	212	NR	75-125			QM-02
Cadmium	3.10	0.259	"	2.59	0.520	99.6	75-125			
Copper	71.7	0.518	"	51.8	19.5	101	75-125			
Lead	35.6	0.259	"	25.9	14.1	83.1	75-125			
Nickel	70.0	0.518	"	51.8	17.7	101	75-125			
Selenium	5.90	0.336	"	5.18	1.05	93.7	75-125			
Silver	2.69	0.0259	"	2.59	0.0686	101	75-125			
Zinc	121	0.518	"	51.8	66.7	105	75-125			

Matrix Spike Dup (BFI0686-MSD1)		Source: 2209132-01			Prepared: 09/26/22 Analyzed: 10/01/22					
Arsenic	60.0	0.259	mg/kg dry	51.8	4.94	106	75-125	1.74	25	
Barium	194	0.518	"	51.8	212	NR	75-125	1.38	25	QM-02
Cadmium	3.06	0.259	"	2.59	0.520	98.3	75-125	1.08	25	
Copper	70.5	0.518	"	51.8	19.5	98.5	75-125	1.72	25	
Lead	35.9	0.259	"	25.9	14.1	84.3	75-125	0.835	25	
Nickel	69.3	0.518	"	51.8	17.7	99.7	75-125	1.03	25	
Selenium	5.69	0.336	"	5.18	1.05	89.8	75-125	3.51	25	
Silver	2.63	0.0259	"	2.59	0.0686	99.1	75-125	1.92	25	
Zinc	119	0.518	"	51.8	66.7	102	75-125	1.36	25	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0016 - 3060A Mod

Blank (BFJ0016-BLK1)

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0016-BS1)

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent 24.8 0.30 mg/kg wet 25.0 99.2 80-120

Duplicate (BFJ0016-DUP1)

Source: 2209336-01

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0016-MS1)

Source: 2209336-01

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent 26.6 0.30 mg/kg dry 27.3 ND 97.4 75-125

Matrix Spike Dup (BFJ0016-MSD1)

Source: 2209336-01

Prepared & Analyzed: 10/03/22

Chromium, Hexavalent 31.5 0.30 mg/kg dry 27.3 ND 115 75-125 16.9 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

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

Summit Scientific

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

Batch BFI0729 - General Preparation

Blank (BFI0729-BLK1)

Prepared: 09/28/22 Analyzed: 09/29/22

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

LCS (BFI0729-BS1)

Prepared: 09/28/22 Analyzed: 09/29/22

Calcium	6.34	0.0500	mg/L wet	5.00	127	70-130
Magnesium	6.10	0.0500	"	5.00	122	70-130
Sodium	5.91	0.0500	"	5.00	118	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

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

Summit Scientific

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

Batch BFI0726 - General Preparation

Duplicate (BFI0726-DUP1)

Source: 2209414-01

Prepared: 09/28/22 Analyzed: 09/30/22

% Solids	93.7	%	92.1	1.70	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

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

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

Batch BFI0743 - General Preparation

Blank (BFI0743-BLK1)

Prepared: 09/28/22 Analyzed: 09/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0743-BS1)

Prepared: 09/28/22 Analyzed: 09/30/22

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

Duplicate (BFI0743-DUP1)

Source: 2209323-01

Prepared: 09/28/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.394 0.0100 mmhos/cm 0.400 1.48 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

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

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

Batch BFI0744 - General Preparation

LCS (BFI0744-BS1)

Prepared: 09/28/22 Analyzed: 09/30/22

pH	9.00	pH Units	9.18	98.0	95-105
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Duplicate (BFI0744-DUP1)

Source: 2209323-01

Prepared: 09/28/22 Analyzed: 09/30/22

pH	7.05	pH Units	7.02	0.426	20
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Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/04/22 12:50

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
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