

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
BEELER 22-12,13, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-013

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)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500		
B01@7.0'	1/13/2023	7.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
NW01@6.0'	1/13/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
NE01@6.0'	1/13/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SE01@6.0'	1/13/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B02@7.0'	1/16/2023	7.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
NW02@6.0'	1/16/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SE02@6.0'	1/16/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SW01@6.0'	1/16/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B03@7.0'	1/17/2023	7.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B04@7.0'	1/17/2023	7.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
NW03@6.0'	1/17/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
NW04@6.0'	1/17/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
NE02@6.0'	1/17/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SW02@6.0'	1/17/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SE03@6.0'	1/17/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SE04@6.0'	1/17/2023	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC 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.
BEELER 22-12,13, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-013

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
B01@7.0'	1/13/2023	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
NW01@6.0'	1/13/2023	6.0 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
NE01@6.0'	1/13/2023	6.0 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
SE01@6.0'	1/13/2023	6.0 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@7.0'	1/16/2023	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
NW02@6.0'	1/16/2023	6.0 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
SE02@6.0'	1/16/2023	6.0 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
SW01@6.0'	1/16/2023	6.0 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
B03@7.0'	1/17/2023	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
B04@7.0'	1/17/2023	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
NW03@6.0'	1/17/2023	6.0 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
NW04@6.0'	1/17/2023	6.0 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
NE02@6.0'	1/17/2023	6.0 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
SW02@6.0'	1/17/2023	6.0 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
SE03@6.0'	1/17/2023	6.0 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
SE04@6.0'	1/17/2023	6.0 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 ECMC Table 915-1 concentrations

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

TABLE 3
SUMMARY OF INORGANICS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
BEELEER 22-12,13, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-013

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Max. Site Specific Background Concentration			8.7	4.98	4.98	0.558
B01@7.0'	1/13/2023	7.0 Ft	7.68	1.73	0.478	0.0637
NW01@6.0'	1/13/2023	6.0 Ft	7.98	0.279	0.0349	0.0327
NE01@6.0'	1/13/2023	6.0 Ft	7.82	0.407	0.200	0.0912
SE01@6.0'	1/13/2023	6.0 Ft	7.75	0.524	0.0774	0.0855
B02@7.0'	1/16/2023	7.0 Ft	8.72	1.25	23.9	0.689
NW02@6.0'	1/16/2023	6.0 Ft	7.56	2.87	0.296	0.222
SE02@6.0'	1/16/2023	6.0 Ft	7.56	1.34	0.232	0.229
SW01@6.0'	1/16/2023	6.0 Ft	7.49	2.70	0.243	0.0830
B03@7.0'	1/17/2023	7.0 Ft	7.88	1.73	2.67	0.218
B04@7.0'	1/17/2023	7.0 Ft	7.49	3.28	0.954	0.308
NW03@6.0'	1/17/2023	6.0 Ft	7.74	1.64	0.826	0.0645
NW04@6.0'	1/17/2023	6.0 Ft	7.55	3.66	0.441	0.188
NE02@6.0'	1/17/2023	6.0 Ft	7.55	3.89	0.223	0.183
SW02@6.0'	1/17/2023	6.0 Ft	7.64	3.39	2.60	0.525
SE03@6.0'	1/17/2023	6.0 Ft	7.52	3.43	0.293	0.201
SE04@6.0'	1/17/2023	6.0 Ft	7.96	0.769	0.291	0.464
B02(2) 7FT	09/05/2023	7	7.67	NA	0.187	NA
BKG01@7.0'	1/16/2023	7.0 Ft	7.76	4.98	2.72	0.558
B02 10FT	09/05/2023	10	8.41	NA	3.6	NA
B02 8FT	09/05/2023	8	7.74	NA	0.544	NA
B02 E 7FT	09/05/2023	7	8.02	NA	0.236	NA
B02 N 7FT	09/05/2023	7	7.73	NA	0.313	NA
B02 S 7FT	09/05/2023	7	7.68	NA	0.375	NA
B02 W 7FT	09/05/2023	7	7.71	NA	0.151	NA
BKG-2 6FT	09/05/2023	6	8.7	NA	4.98	NA

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Max. Site Specific Background Concentration			8.7	4.98	4.98	0.558
BKG-2 7FT	09/05/2023	7	8.16	NA	4.58	NA
BKG-3 6FT	09/05/2023	6	8.12	NA	3.38	NA
BKG-3 7FT	09/05/2023	7	7.68	NA	0.261	NA
BKG-4 6FT	09/05/2023	6	8.07	NA	0.227	NA
BKG-4 7FT	09/05/2023	7	7.68	NA	0.112	NA
BKG-5 7FT	09/05/2023	7	8.23	NA	2.67	NA
BKG-6 6FT	09/05/2023	6	7.76	NA	1.95	NA
BKG-6 7FT	09/05/2023	7	7.91	NA	2.71	NA

Bold faced values exceed the ECMC Table 915-1 concentrations

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

Orange highlighted cells exceed the the maximum 915-1 background concentration

Purple highlighted cells are resampled locations which previously exceeded 915-1 SSLs but are now in compliance

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
BEELER 22-12,13, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-013

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Highest Background Concentration			6.8	123	NA	NA	NA	6.14	NA	0.615	NA	NA
125% of Highest Background Concentration			8.5	154	NA	NA	NA	7.675	NA	0.77	NA	NA
B01@7.0'	1/13/2023	7.0 Ft	1.48	16.7	0.0874	<0.30	5.13	6.18	6.29	0.850	0.0228	37.1
NW01@6.0'	1/13/2023	6.0 Ft	2.55	49.9	0.0498	<0.30	6.69	6.49	7.32	0.849	0.0366	35.4
NE01@6.0'	1/13/2023	6.0 Ft	2.79	43.4	0.0511	<0.30	4.38	6.16	6.49	1.07	0.0377	31.8
SE01@6.0'	1/13/2023	6.0 Ft	2.03	84.5	0.0379	<0.30	4.77	6.04	6.33	0.793	0.0290	38.2
B02@7.0'	1/16/2023	7.0 Ft	1.69	18.6	0.0256	<0.30	5.22	5.90	6.54	0.481	0.0174	37.1
NW02@6.0'	1/16/2023	6.0 Ft	2.31	47.4	0.0364	<0.30	4.99	5.92	6.69	0.659	0.0183	33.1
SE02@6.0'	1/16/2023	6.0 Ft	3.38	72.7	0.0358	<0.30	4.03	5.12	5.79	0.461	0.0230	30.1
SW01@6.0'	1/16/2023	6.0 Ft	2.77	36.1	0.0383	<0.30	4.41	5.48	6.50	0.527	0.0214	28.9
B03@7.0'	1/17/2023	7.0 Ft	3.70	9.90	0.0951	<0.30	4.28	6.42	4.69	<0.312	0.0125	22.2
B04@7.0'	1/17/2023	7.0 Ft	10.1	19.6	0.153	<0.30	6.88	10.2	6.83	<0.319	0.0339	31.4
NW03@6.0'	1/17/2023	6.0 Ft	5.34	107	0.139	<0.30	4.03	8.73	5.83	<0.295	0.0322	22.9
NW04@6.0'	1/17/2023	6.0 Ft	3.92	14.3	0.0956	<0.30	4.10	6.28	5.38	<0.311	0.0167	27.1
NE02@6.0'	1/17/2023	6.0 Ft	5.77	37.2	0.115	<0.30	5.75	8.76	5.05	<0.313	0.0304	36.3
SW02@6.0'	1/17/2023	6.0 Ft	11.9	34.3	0.123	<0.30	6.75	9.53	6.60	<0.325	0.0295	27.6
SE03@6.0'	1/17/2023	6.0 Ft	14.7	44.6	0.166	<0.30	11.1	15.3	8.00	<0.317	0.0332	36.8
SE04@6.0'	1/17/2023	6.0 Ft	9.08	59.5	0.162	<0.30	7.87	11.6	6.67	0.220	0.0407	32.8
B02 (2) 7FT	09/05/2023	7	0.56	44.7	<0.200	<0.30	0.918	4.48	1.51	<0.260	0.02	7.16
SE03 (2) 6FT	09/05/2023	6	1.42	152	<0.200	<0.30	1.97	7.23	2.93	<0.260	0.0264	10.8
BKG01@7.0'	1/16/2023	7.0 Ft	6.81	123	0.128	<0.30	11.4	6.14	47.7	0.615	0.0275	30.4
BKG-2 6FT	09/05/2023	6	1.13	22.1	<0.200	<0.30	1.35	5.81	2.23	<0.260	0.0242	10.1
BKG-2 7FT	09/05/2023	7	1.03	23.4	<0.200	<0.30	1.65	6.12	2.28	<0.260	<0.0200	11.2
BKG-3 6FT	09/05/2023	6	1.11	47.4	<0.200	<0.30	2.1	7.66	2.47	<0.260	0.0262	12.7
BKG-3 7FT	09/05/2023	7	0.696	39.6	<0.200	<0.30	1.28	5.83	1.92	<0.260	<0.0200	9.34
BKG-4 6FT	09/05/2023	6	1.36	204	<0.200	<0.30	2.09	7.41	3.05	<0.260	0.0295	10.2
BKG-4 7FT	09/05/2023	7	1.22	94.4	<0.200	<0.30	1.77	6.71	2.62	<0.260	<0.0200	11.1
BKG-5 7FT	09/05/2023	7	1.27	85.1	<0.200	<0.30	1.71	7.91	2.69	<0.260	0.0289	11.4
BKG-6 6FT	09/05/2023	6	1.47	153	<0.200	<0.30	1.99	6.64	3.13	<0.260	0.0311	9.19

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Highest Background Concentration			6.8	123	NA	NA	NA	6.14	NA	0.615	NA	NA
125% of Highest Background Concentration			8.5	154	NA	NA	NA	7.675	NA	0.77	NA	NA
BKG-6 7FT	09/05/2023	7	1.81	114	<0.200	<0.30	1.75	6.06	2.75	<0.260	0.0334	9.16

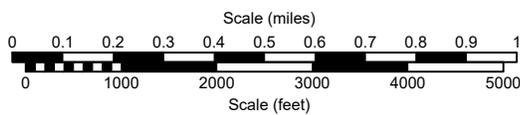
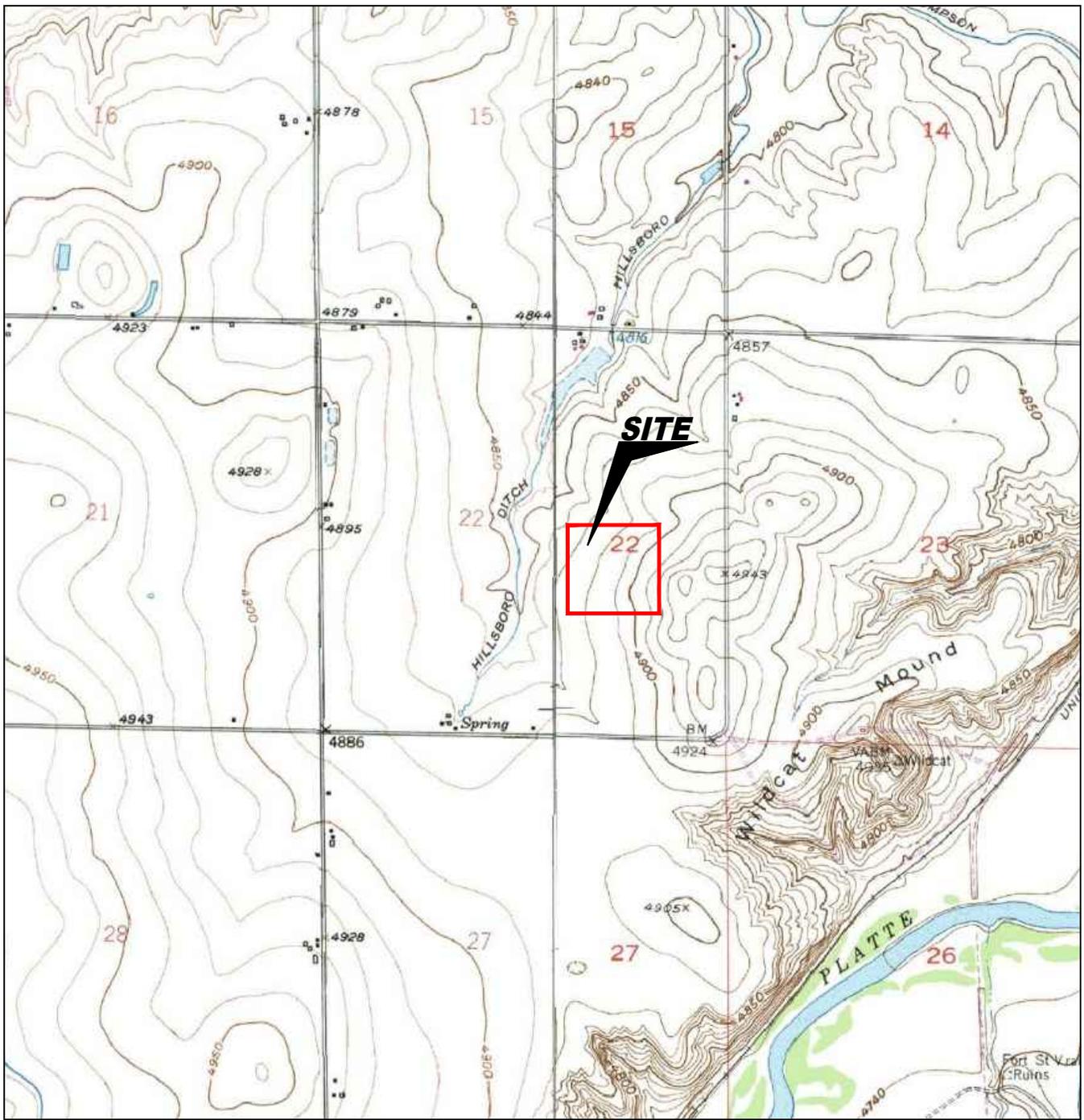
Bold faced values exceed the ECMC Table 915-1 concentrations

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

Orange highlighted cells exceed the 125% of the maximum 915-1 background concentration

Purple highlighted cells are resampled locations which previously exceeded 915-1 SSLs but are now in compliance

NA - Not analyzed



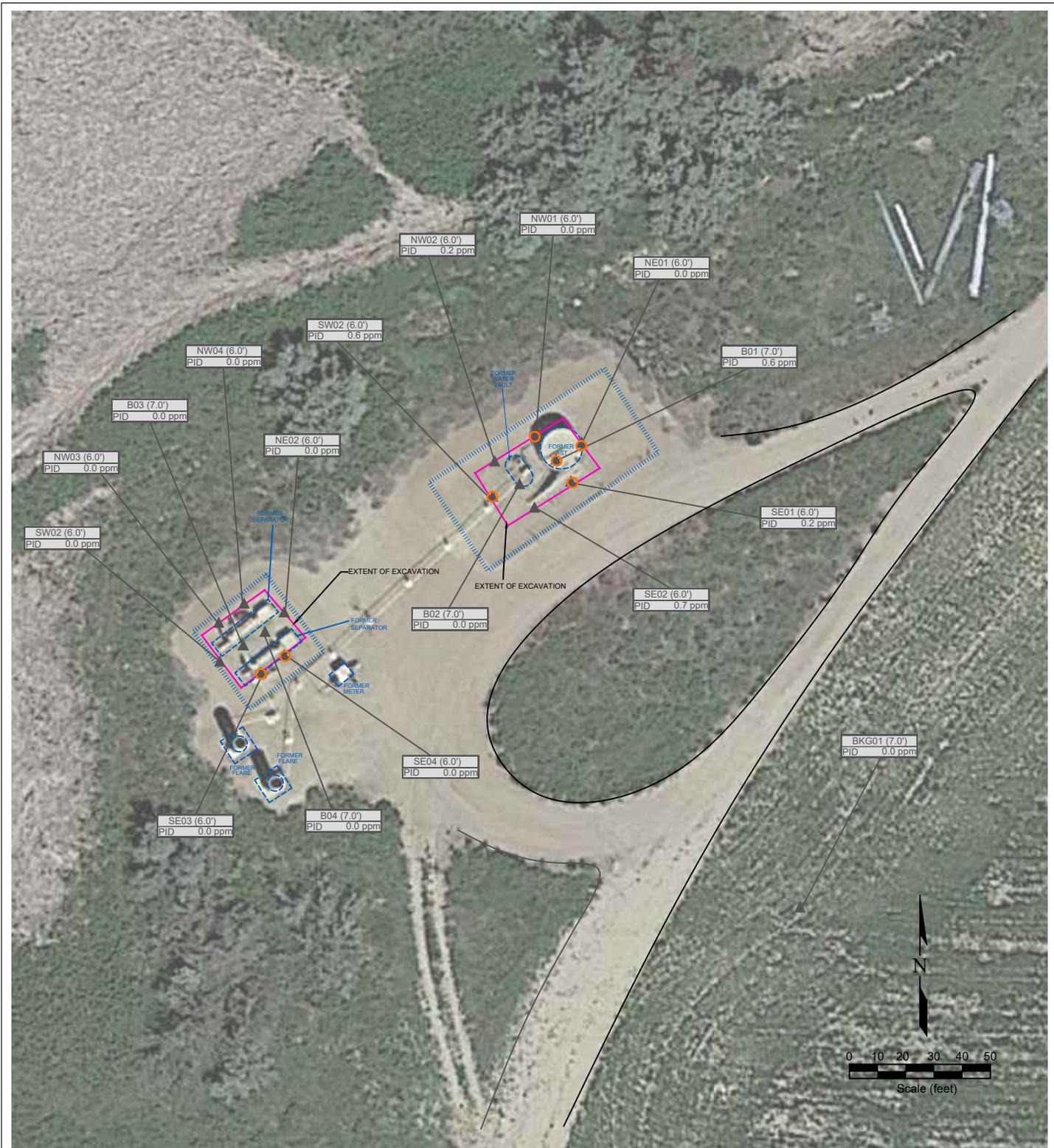
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Beeler 22-12, 13
 NWNE Sec. 22, T4N, R67W, 6th PM
 Weld County, Colorado
 40.303521°, -104.873342°

Project # C022-013	API # 05-123-20054	Facility # 331032
Date 2/25/23	Remediation # 21781	Filename 22013T





LEGEND

- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT BERM
- EXTENT OF EXCAVATION

▲ PID READING LOCATION

AS101 (1.0')
PID 483.4 ppm PHOTO IONIZATION DETECTION READING (ppm)
PID = photo ionization detection / PPM = parts per million

○ Resample Location

**Figure 2
SITE MAP**

Noble Energy, Inc. ~ Beeler 22-12, 13
 NWNE Sec. 22, T4N, R67W, 6th PM
 Weld County, Colorado
 40.303662°, -104.873344°

Project No. C022-013	API # 05-123-20054	Facility # 331032
Date 2/25/23	Remediation # 21781	Filename 22013Q1



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 14, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Beeler

Work Order #2309053

Enclosed are the results of analyses for samples received by Summit Scientific on 09/05/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B02(2) 7FT	2309053-01	Soil	09/05/23 00:00	09/05/23 16:30
B02 N 7FT	2309053-02	Soil	09/05/23 00:00	09/05/23 16:30
B02 S 7FT	2309053-03	Soil	09/05/23 00:00	09/05/23 16:30
B02 E 7FT	2309053-04	Soil	09/05/23 00:00	09/05/23 16:30
B02 W 7FT	2309053-05	Soil	09/05/23 00:00	09/05/23 16:30
SEP03 (2) 7FT	2309053-06	Soil	09/05/23 00:00	09/05/23 16:30
BKG-2 6FT	2309053-07	Soil	09/05/23 00:00	09/05/23 16:30
BKG-2 7FT	2309053-08	Soil	09/05/23 00:00	09/05/23 16:30
BKG-3 6FT	2309053-09	Soil	09/05/23 00:00	09/05/23 16:30
BKG-3 7FT	2309053-10	Soil	09/05/23 00:00	09/05/23 16:30
BKG-4 6FT	2309053-11	Soil	09/05/23 00:00	09/05/23 16:30
BKG-4 7FT	2309053-12	Soil	09/05/23 00:00	09/05/23 16:30
BKG-5 7FT	2309053-14	Soil	09/05/23 00:00	09/05/23 16:30
B02 8FT	2309053-15	Soil	09/05/23 00:00	09/05/23 16:30
B02 10FT	2309053-16	Soil	09/05/23 00:00	09/05/23 16:30
BKG-6 6FT	2309053-17	Soil	09/05/23 00:00	09/05/23 16:30
BKG-6 7FT	2309053-18	Soil	09/05/23 00:00	09/05/23 16:30

Summit Scientific

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

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

Lab ID: 2309053.1
Page 1 of 2

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

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested					Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH		SAR, Fe, pH, Boron	TDS, Chloride, Sulfate	Metals (915-1)
1	B02(2) 7FT	9/5/23		2			X			X					X				
2	B02 N 7FT														X				
3	B02 S 7FT														X				
4	B02 E 7FT														X				
5	B02 W 7FT														X				
6	SEPO3 (2) 7FT														X				
7	BKG-2 6FT														X				X
8	BKG-2 7FT														X				X
9	BKG-3 8FT 6FT														X				X
10	BKG-3 7FT														X				X
11	BKG-4 6FT														X				X
12	BKG-4 7FT														X				X
13	BKG-5 6FT														X				X
14	BKG-5 7FT														X				X
15	B02 8FT														X				X

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>9/5/23</u>	Received by: <u>S2</u>	Date/Time: <u>9/5/23 1400</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>9/5/23 1030</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/5/23 1030</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date/Time: <u>[Signature]</u>	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>10.0</u>	Corrected Temperature: <u>9</u>	IR gun #: <u>1</u>	HNO3 lot #:			

SUMMIT SCIENTIFIC

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

Lab ID 2309053.2 Page 2 of 2

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

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, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, ES(OH) Bact		TDS, Chloride, Sulfate	Metals (915-1)
1	B02 10 FT	9/5/23		2			X			X					X				
2	BKG-6 6 FT			1											X				
3	BKG-6 7 FT			1											X				
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>9/5/23 1400</u>	Received by: <u>S2</u>	Date/Time: <u>9/5/23 1400</u>	TAT Business Days	Field DO	Notes:
Relinquished by: <u>S2</u>	Date/Time: <u>9/5/23 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/5/23 1630</u>	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>10.0</u>	Corrected Temperature: <u>6</u>	IR gun #:	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2309053

Client: Fremont Client Project ID: Noble-Becker

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

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

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	missing sample #13
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.

AS
Custodian Printed Name

9/5/23
Date/Time

0003



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

B02(2) 7FT
2309053-01 (Soil)

Summit Scientific

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	609	0.0571	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	238	0.0571	"	"	"	"	"	"	
Sodium	21.5	0.0571	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.187	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.6		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.67		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

B02 N 7FT
2309053-02 (Soil)

Summit Scientific

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	544	0.0561	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	254	0.0561	"	"	"	"	"	"	
Sodium	35.3	0.0561	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.313	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.2		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.73		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

B02 S 7FT
2309053-03 (Soil)

Summit Scientific

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	584	0.0578	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	264	0.0578	"	"	"	"	"	"	
Sodium	43.5	0.0578	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.375	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.5		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.68		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

B02 E 7FT
2309053-04 (Soil)

Summit Scientific

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	90.1	0.0586	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	58.7	0.0586	"	"	"	"	"	"	
Sodium	11.7	0.0586	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.236	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.3		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.02		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

B02 W 7FT
2309053-05 (Soil)

Summit Scientific

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	611	0.0593	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	220	0.0593	"	"	"	"	"	"	
Sodium	17.1	0.0593	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.151	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.3		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.71		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

SEP03 (2) 7FT
2309053-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.42	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	152	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.97	0.400	"	"	"	"	"	"	
Lead	7.23	0.200	"	"	"	"	"	"	
Nickel	2.93	0.400	"	"	"	"	"	"	
Silver	0.0264	0.0200	"	"	"	"	"	"	
Zinc	10.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	83.3		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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 - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

BKG-2 6FT
2309053-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.13	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	22.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.35	0.400	"	"	"	"	"	"	
Lead	5.81	0.200	"	"	"	"	"	"	
Nickel	2.23	0.400	"	"	"	"	"	"	
Silver	0.0242	0.0200	"	"	"	"	"	"	
Zinc	10.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	494	0.0572	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	690	0.0572	"	"	"	"	"	"	
Sodium	730	0.0572	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.98	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

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 - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

BKG-2 6FT
2309053-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.5			%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.70			pH Units	1	BGI0148	09/07/23	09/07/23	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 - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

BKG-2 7FT
2309053-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.03	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	23.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.65	0.400	"	"	"	"	"	"	
Lead	6.12	0.200	"	"	"	"	"	"	
Nickel	2.28	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	479	0.0558	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	740	0.0558	"	"	"	"	"	"	
Sodium	685	0.0558	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.58	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

BKG-2 7FT
2309053-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.6		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

BKG-3 6FT
2309053-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.11	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	47.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.10	0.400	"	"	"	"	"	"	
Lead	7.66	0.200	"	"	"	"	"	"	
Nickel	2.47	0.400	"	"	"	"	"	"	
Silver	0.0262	0.0200	"	"	"	"	"	"	
Zinc	12.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	203	0.0596	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	243	0.0596	"	"	"	"	"	"	
Sodium	302	0.0596	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.38	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

BKG-3 6FT
2309053-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.8		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

BKG-3 7FT
2309053-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.696	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	39.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.28	0.400	"	"	"	"	"	"	
Lead	5.83	0.200	"	"	"	"	"	"	
Nickel	1.92	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.34	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	561	0.0566	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	271	0.0566	"	"	"	"	"	"	
Sodium	30.1	0.0566	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.261	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

BKG-3 7FT
2309053-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.3		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

BKG-4 6FT
2309053-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.36	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	204	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.09	0.400	"	"	"	"	"	"	
Lead	7.41	0.200	"	"	"	"	"	"	
Nickel	3.05	0.400	"	"	"	"	"	"	
Silver	0.0295	0.0200	"	"	"	"	"	"	
Zinc	10.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	63.4	0.0567	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	26.9	0.0567	"	"	"	"	"	"	
Sodium	8.55	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.227	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

BKG-4 6FT
2309053-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.3		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

BKG-4 7FT
2309053-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.22	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	94.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.77	0.400	"	"	"	"	"	"	
Lead	6.71	0.200	"	"	"	"	"	"	
Nickel	2.62	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	599	0.0606	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	167	0.0606	"	"	"	"	"	"	
Sodium	12.0	0.0606	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.112	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

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 - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

BKG-4 7FT
2309053-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

BKG-5 7FT
2309053-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.27	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	85.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.71	0.400	"	"	"	"	"	"	
Lead	7.91	0.200	"	"	"	"	"	"	
Nickel	2.69	0.400	"	"	"	"	"	"	
Silver	0.0289	0.0200	"	"	"	"	"	"	
Zinc	11.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	48.6	0.0601	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	76.0	0.0601	"	"	"	"	"	"	
Sodium	128	0.0601	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.67	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

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 - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

BKG-5 7FT
2309053-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BGI0148	09/07/23	09/07/23	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 - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

B02 8FT
2309053-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.560	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	44.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.918	0.400	"	"	"	"	"	"	
Lead	4.48	0.200	"	"	"	"	"	"	
Nickel	1.51	0.400	"	"	"	"	"	"	
Silver	0.0200	0.0200	"	"	"	"	"	"	
Zinc	7.16	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	445	0.0544	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	277	0.0544	"	"	"	"	"	"	
Sodium	59.3	0.0544	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.544	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

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 - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

B02 8FT
2309053-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BGI0148	09/07/23	09/07/23	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 - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

B02 10FT
2309053-16 (Soil)

Summit Scientific

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	37.6	0.0578	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	66.0	0.0578	"	"	"	"	"	"	
Sodium	158	0.0578	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.60	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.5		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.41		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

BKG-6 6FT
2309053-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.47	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	153	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.99	0.400	"	"	"	"	"	"	
Lead	6.64	0.200	"	"	"	"	"	"	
Nickel	3.13	0.400	"	"	"	"	"	"	
Silver	0.0311	0.0200	"	"	"	"	"	"	
Zinc	9.19	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	506	0.0555	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	316	0.0555	"	"	"	"	"	"	
Sodium	227	0.0555	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.95	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

BKG-6 6FT
2309053-17 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.0		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

BKG-6 7FT
2309053-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.81	0.200	mg/kg dry	1	BGI0158	09/07/23	09/08/23	EPA 6020B	
Barium	114	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.75	0.400	"	"	"	"	"	"	
Lead	6.06	0.200	"	"	"	"	"	"	
Nickel	2.75	0.400	"	"	"	"	"	"	
Silver	0.0334	0.0200	"	"	"	"	"	"	
Zinc	9.16	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	473	0.0556	mg/L dry	1	BGI0133	09/06/23	09/07/23	EPA 6020B	
Magnesium	406	0.0556	"	"	"	"	"	"	
Sodium	333	0.0556	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.71	0.00100	units	1	BGI0211	09/08/23	09/08/23	Calculation	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

BKG-6 7FT
2309053-18 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BGI0136	09/06/23	09/06/23	Calculation	

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

Date Sampled: **09/05/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BGI0148	09/07/23	09/07/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGI0158 - EPA 3050B

Blank (BGI0158-BLK1)

Prepared: 09/07/23 Analyzed: 09/08/23

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

LCS (BGI0158-BS1)

Prepared: 09/07/23 Analyzed: 09/08/23

Arsenic	42.1	0.200	mg/kg wet	40.0	105	80-120
Barium	40.5	0.400	"	40.0	101	80-120
Cadmium	2.02	0.200	"	2.00	101	80-120
Copper	38.8	0.400	"	40.0	97.1	80-120
Lead	20.7	0.200	"	20.0	104	80-120
Nickel	42.4	0.400	"	40.0	106	80-120
Silver	2.00	0.0200	"	2.00	99.8	80-120
Zinc	42.8	0.400	"	40.0	107	80-120

Duplicate (BGI0158-DUP1)

Source: 2309045-01

Prepared: 09/07/23 Analyzed: 09/08/23

Arsenic	1.34	0.200	mg/kg dry	1.32	1.73	20
Barium	68.0	0.400	"	79.1	15.1	20
Cadmium	0.855	0.200	"	0.930	8.40	20
Copper	7.99	0.400	"	7.74	3.23	20
Lead	45.5	0.200	"	55.6	20.1	20
Nickel	1.59	0.400	"	1.53	3.58	20
Silver	0.528	0.0200	"	0.528	0.0856	20
Zinc	30.8	0.400	"	29.4	4.52	20
Selenium	ND	0.260	"	ND		200

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0158 - EPA 3050B

Matrix Spike (BGI0158-MS1)

Source: 2309045-01

Prepared: 09/07/23 Analyzed: 09/08/23

Arsenic	15.5	0.200	mg/kg dry	45.2	1.32	31.4	75-125			QM-01
Barium	124	0.400	"	45.2	79.1	99.1	75-125			
Cadmium	3.36	0.200	"	2.26	0.930	108	75-125			
Copper	21.5	0.400	"	45.2	7.74	30.4	75-125			QM-01
Lead	67.3	0.200	"	22.6	55.6	51.6	75-125			QM-01
Nickel	16.6	0.400	"	45.2	1.53	33.3	75-125			QM-01
Silver	2.87	0.0200	"	2.26	0.528	104	75-125			
Zinc	46.1	0.400	"	45.2	29.4	36.9	75-125			QM-01

Matrix Spike Dup (BGI0158-MSD1)

Source: 2309045-01

Prepared: 09/07/23 Analyzed: 09/08/23

Arsenic	13.7	0.200	mg/kg dry	45.2	1.32	27.5	75-125	12.0	25	QM-01
Barium	101	0.400	"	45.2	79.1	48.0	75-125	20.5	25	QM-01
Cadmium	2.70	0.200	"	2.26	0.930	78.6	75-125	21.6	25	
Copper	19.5	0.400	"	45.2	7.74	26.1	75-125	9.58	25	QM-01
Lead	58.7	0.200	"	22.6	55.6	13.4	75-125	13.7	25	QM-01
Nickel	14.9	0.400	"	45.2	1.53	29.5	75-125	11.0	25	QM-01
Silver	2.31	0.0200	"	2.26	0.528	78.8	75-125	21.9	25	
Zinc	42.5	0.400	"	45.2	29.4	28.9	75-125	8.12	25	QM-01

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGI0171 - 3060A Mod

Blank (BGI0171-BLK1)

Prepared & Analyzed: 09/07/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0171-BS1)

Prepared & Analyzed: 09/07/23

Chromium, Hexavalent 24.0 0.30 mg/kg wet 25.0 96.2 80-120

Duplicate (BGI0171-DUP1)

Source: 2308661-02

Prepared & Analyzed: 09/07/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0171-MS1)

Source: 2308661-02

Prepared & Analyzed: 09/07/23

Chromium, Hexavalent 27.2 0.30 mg/kg dry 29.5 ND 92.2 75-125

Matrix Spike Dup (BGI0171-MSD1)

Source: 2308661-02

Prepared & Analyzed: 09/07/23

Chromium, Hexavalent 27.0 0.30 mg/kg dry 29.5 ND 91.6 75-125 0.653 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

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 BGI0133 - General Preparation

Blank (BGI0133-BLK1)

Prepared: 09/06/23 Analyzed: 09/07/23

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

LCS (BGI0133-BS1)

Prepared: 09/06/23 Analyzed: 09/07/23

Calcium	4.76	0.0500	mg/L wet	5.00		95.2	70-130			
Magnesium	4.73	0.0500	"	5.00		94.6	70-130			
Sodium	4.52	0.0500	"	5.00		90.4	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

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

Summit Scientific

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

Batch BGI0136 - General Preparation

Duplicate (BGI0136-DUP1)

Source: 2308661-02

Prepared & Analyzed: 09/06/23

% Solids	83.7		%		84.7			1.13		20	
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Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/14/23 15:22

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 BGI0148 - General Preparation

LCS (BGI0148-BS1)

Prepared & Analyzed: 09/07/23

pH 9.06 pH Units 9.18 98.7 95-105

Duplicate (BGI0148-DUP1)

Source: 2309048-01

Prepared & Analyzed: 09/07/23

pH 7.17 pH Units 7.17 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Beeler

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/14/23 15:22

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- 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