

FREMONT ENVIRONMENTAL INC.

March 7, 2024

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

Subject: **Flowline Closure Data Submittal**
 Huntsman G 13-9
 API # 05-123-16321
 NESE Sec. 13, T4N, R65W
 Weld County, Colorado
 Fremont Project No. C024-017
 Facility ID #248523, Remediation #31082

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Flowline Closure activities for the Noble Energy Inc. (Noble) Huntsman G 13-9. Impacted soil was not encountered during abandonment activities. Details of the Huntsman G 13-9 flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Paul V. Henahan, P.E.
Senior Consultant

Attachments:

Facility Closure Checklist
Tables
Figures
Photos
Laboratory Reports

**1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)**

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Huntsman T4N-R65W-S13 L01 Facility: 327421		Date: 01/23/2024						Remediation Project #: 31082
Associated Wells: Huntsman G 13-9 Facility ID: 248523 API: 05-123-16321		Age of Site: 1992						Number of Photos Attached: 13 Photos
Starting point: (GPS coordinates and descriptions) 40.3105625, -104.6046507								
End point: (GPS coordinates and descriptions) 40.3121323, -104.6083734								
USCS Soil Type: SC & SW					Estimated Depth to Groundwater: N/A			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed								
Flowlines								
Flowline type	2" Steel							
Depth	Roughly 3-4ft							
Age	1992							
Length	1,210ft							
Construction Material	No Coating							
Were flowlines pulled?	Partially							
Visual Integrity of lines	No Damage							
Visual impacts if trenched	N/A							
PID Readings if trenched	N/A							
Sample taken? Location/Sample ID#	FL01@4.0' FL02@3.5' FL07@4.0'							
Photo Number(s)	Photo 1A-1G & 2A-2F							
Other observations regarding on loction flowlines: 410 feet of flowline was removed from wellhead tie-in (FL01@4.0') to sample location FL04@5.5'. 340 feet of flowline was cut, capped and abandoned-in-place from sample location FL04@5.5' to sample location FL05@5.0'. 460 feet of flowline was removed from sample location FL05@5.0' to separator tie-in (FL07@4.0') sample location. An exceedance in pH was discovered at the wellhead tie-in (FL01@4.0') sample location. An exceedance arsenic was discovered at the wellhead tie-in (FL01@4.0'), sample location FL02@3.5' and the separator tie-in (FL07@4.0'). An exceedance in barium was discovered at both the wellhead tie-in (FL01@4.0') and separator tie-in (FL07@4.0'). Exceedances in pH and barium were discovered in multiple local background samples collected and exceedances in arsenic were discovered in all local background samples.								
Summary								
Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 4 samples					Total number of samples collected: 23 samples			
Highest PID Reading: High @ 0.0ppm (All Samples)					Total number of samples submitted to lab for analysis: 19 Samples			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent: N/A					Estimated spill volume: N/A			
Lateral extent: N/A					Volume of soil removed: N/A			
Is additional investigation required? N/A								
Was groundwater encountered during the investigation? No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater: N/A					Was remedial groundwater removal conducted? Yes No			
Date Groundwater was encountered: N/A					Commencement date of removal: N/A			
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling: N/A			
Free product observed? Yes No					Volume of groundwater removed post sampling: N/A			
Total number of samples collected: N/A					Total Volume of groundwater removed: N/A			
Total number of samples submitted to lab for analysis: N/A								

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
HUNTSMAN G 13-9, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-017

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**		
FL01@4.0'	1/23/2024	4.0 Ft	<0.0200	<0.0500	<0.0500	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL02@3.5'	1/23/2024	3.5 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL07@4.0'	1/23/2024	4.0 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)

Green highlighted cells indicate soil removed via excavation

* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
HUNTSMAN G 13-9, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-017

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
FL01@4.0'	1/23/2024	4.0 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
FL02@3.5'	1/23/2024	3.5 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
FL07@4.0'	1/23/2024	4.0 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)
* Indicates laboratory minimum detection limit in excess of SSL
NA - Not analyzed
Green highlighted cells indicate soil removed via excavation

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
HUNTSMAN G 13-9, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-017

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. Background Concentration (or Concentration Range)			9.52	5.36	-	-
FL01@4.0'	1/23/2024	4.0 Ft	8.43	0.258	0.831	<2.00
FL02@3.5'	1/23/2024	3.5 Ft	8.29	5.14	0.590	<2.00
FL07@4.0'	1/23/2024	4.0 Ft	8.12	0.248	0.0414	<2.00
BKG01@6.0"	1/23/2024	0.5 Ft	6.42	0.678	0.0546	<2.00
BKG01@4.0'	1/23/2024	4.0 Ft	8.67	0.709	0.293	<2.00
BKG01@5.0'	1/23/2024	5.0 Ft	8.94	1.11	9.61	<2.00
BKG02@6.0"	1/23/2024	0.5 Ft	6.97	0.644	0.0768	<2.00
BKG02@4.0'	1/23/2024	4.0 Ft	9.52	0.814	0.302	<2.00
BKG02@5.0'	1/23/2024	5.0 Ft	8.55	1.09	0.505	<2.00
BKG03@6.0"	1/23/2024	0.5 Ft	7.08	0.748	0.172	<2.00
BKG03@4.0'	1/23/2024	4.0 Ft	8.16	3.21	5.71	<2.00
BKG03@5.0'	1/23/2024	5.0 Ft	8.14	3.32	5.88	<2.00
BKG04@6.0"	1/23/2024	0.5 Ft	8.68	0.565	0.126	<2.00
BKG04@4.0'	1/23/2024	4.0 Ft	9.43	1.06	0.155	<2.00
BKG04@5.0'	1/23/2024	5.0 Ft	9.11	1.40	2.75	<2.00
BKG05@6.0"	1/23/2024	0.5 Ft	7.34	0.551	0.114	<2.00
BKG05@4.0'	1/23/2024	4.0 Ft	7.84	5.36	4.22	<2.00
BKG05@5.0'	1/23/2024	5.0 Ft	8.05	4.10	6.15	<2.00
BKG06@4.0'	1/23/2024	4.0 Ft	8.49	3.11	5.24	<2.00

Bold faced, yellow highlighted values exceed the ECMC Table 915-1 concentrations

Green highlighted cells indicate soil removed via excavation

Orange highlighted cells exceed of the maximum background concentration, or concentration range

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

NA - Not analyzed

Local Background Samples (BKG01, BKG02, BKG03, BKG04, BKG05, BKG06)

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
HUNTSMAN G 13-9, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-017

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
125% Max. Background Concentration			10.17	296	-	-	-	-	-	-	-	-
FL01@4.0'	1/23/2024	4.0 Ft	6.98	105	0.353	<0.30	5.49	11.8	6.81	<0.260	0.0252	25.2
FL02@3.5'	1/23/2024	3.5 Ft	3.95	80.1	<0.200	<0.30	3.02	6.15	5.13	<0.260	<0.0200	19.0
FL07@4.0'	1/23/2024	4.0 Ft	5.39	119	0.239	<0.30	6.87	10.1	8.15	<0.260	0.0462	24.4
BKG01@6.0"	1/23/2024	0.5 Ft	3.28	89.1	0.309	<0.30	5.90	10.2	5.30	<0.260	0.0380	22.0
BKG01@4.0'	1/23/2024	4.0 Ft	5.46	171	0.415	<0.30	5.63	10.9	7.31	<0.260	0.0398	23.2
BKG01@5.0'	1/23/2024	5.0 Ft	5.23	120	0.366	<0.30	5.93	11.8	7.15	<0.260	0.0349	24.8
BKG02@6.0"	1/23/2024	0.5 Ft	2.38	94.8	0.332	<0.30	5.85	10.9	4.41	<0.260	0.0371	28.6
BKG02@4.0'	1/23/2024	4.0 Ft	5.49	237	0.490	<0.30	5.91	12.4	6.92	<0.260	0.0414	24.4
BKG02@5.0'	1/23/2024	5.0 Ft	4.33	198	0.355	<0.30	5.67	11.2	6.69	<0.260	0.0359	24.3
BKG03@6.0"	1/23/2024	0.5 Ft	1.31	46.8	<0.200	<0.30	3.67	6.62	2.73	<0.260	<0.0200	17.0
BKG03@4.0'	1/23/2024	4.0 Ft	1.41	60.8	<0.200	<0.30	3.08	4.11	3.26	<0.260	<0.0200	12.5
BKG03@5.0'	1/23/2024	5.0 Ft	1.99	55.6	<0.200	<0.30	3.63	5.52	3.67	<0.260	0.0227	14.3
BKG04@6.0"	1/23/2024	0.5 Ft	0.958	30.3	<0.200	<0.30	3.10	5.02	2.36	<0.260	<0.0200	12.7
BKG04@4.0'	1/23/2024	4.0 Ft	2.60	74.8	<0.200	<0.30	3.80	5.45	4.81	<0.260	<0.0200	15.9
BKG04@5.0'	1/23/2024	5.0 Ft	2.01	77.5	<0.200	<0.30	3.10	3.89	3.75	<0.260	<0.0200	11.0
BKG05@6.0"	1/23/2024	0.5 Ft	0.946	32.3	<0.200	<0.30	2.98	4.20	2.40	<0.260	<0.0200	12.3
BKG05@4.0'	1/23/2024	4.0 Ft	1.83	72.8	<0.200	<0.30	3.47	4.67	4.01	<0.260	0.0290	14.1
BKG05@5.0'	1/23/2024	5.0 Ft	3.58	131	<0.200	<0.30	4.61	6.99	6.09	<0.260	0.0285	17.2
BKG06@4.0'	1/23/2024	4.0 Ft	8.14	42.7	<0.200	<0.30	3.32	4.95	2.46	<0.260	<0.0200	16.3

Bold faced values exceed the ECMC Table 915-1 concentrations

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

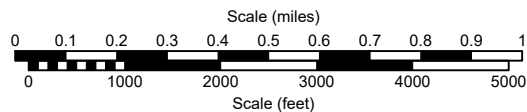
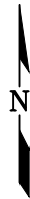
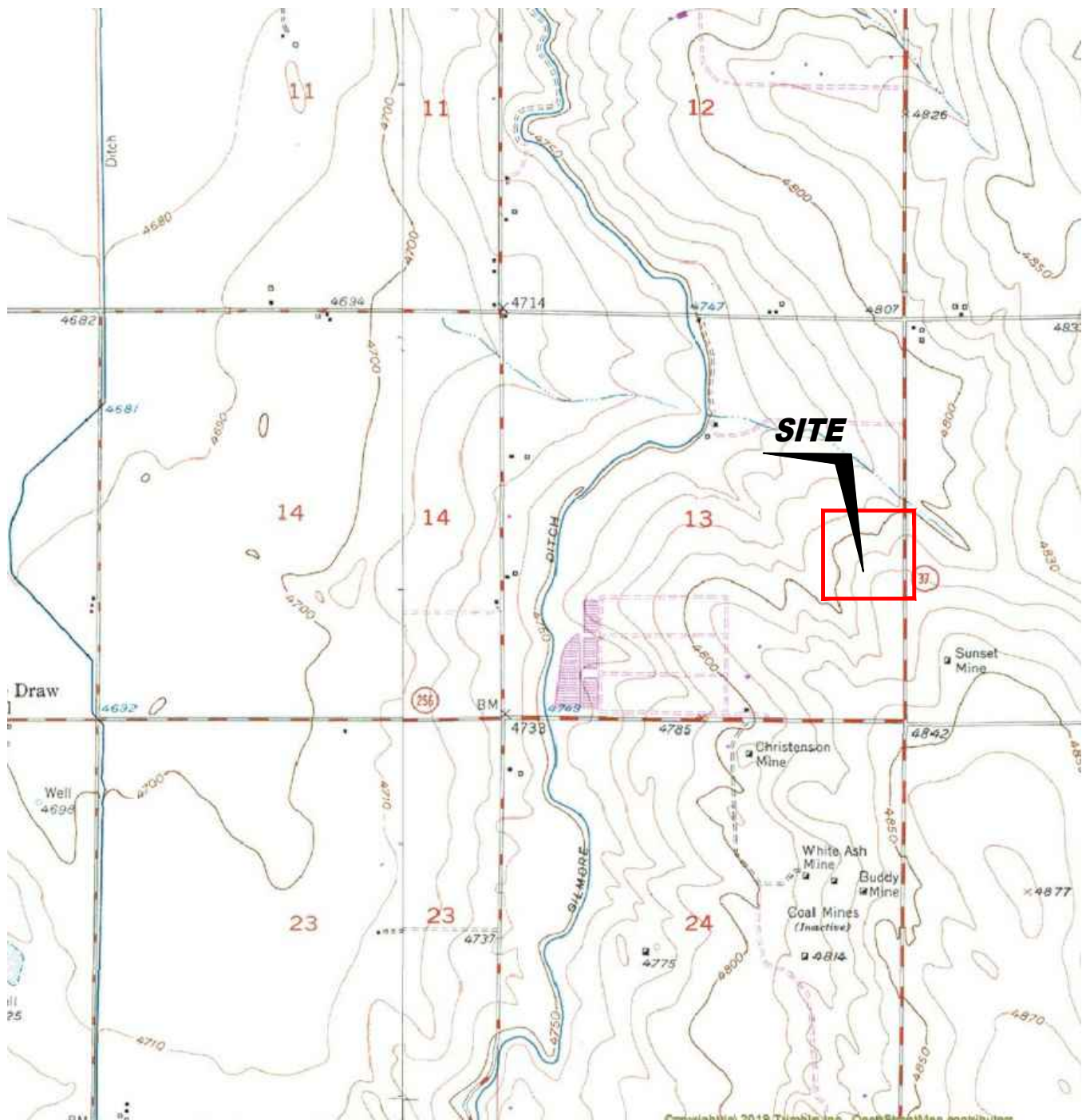
Orange highlighted cells exceed 125% of the maximum background concentration

* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

NA - Not analyzed

Local Background Samples (BKG01, BKG02, BKG03, BKG04, BKG05, BKG06)



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
NOBLE ENERGY INC ~ HUNTSMAN G 13-9

NESE Sec.13, T4N, R65W, 6th PM
Weld County, Colorado
40.310550°, -104.604642°

Project # C024-017	API # 05-123-16321	Facility #
Date 5/29/24	Remediation # 31082	Filename 24017TFL





LEGEND	
PID READING LOCATION	ABOVE GROUND STORAGE TANK
PID READING LOCATION IDENTIFICATION	BUILDING
PHOTO IONIZATION DETECTION (ppm)	FORMER FLOW LINE
	FENCE LINE
	CONTAINMENT BERM
	CONTAINMENT WALL

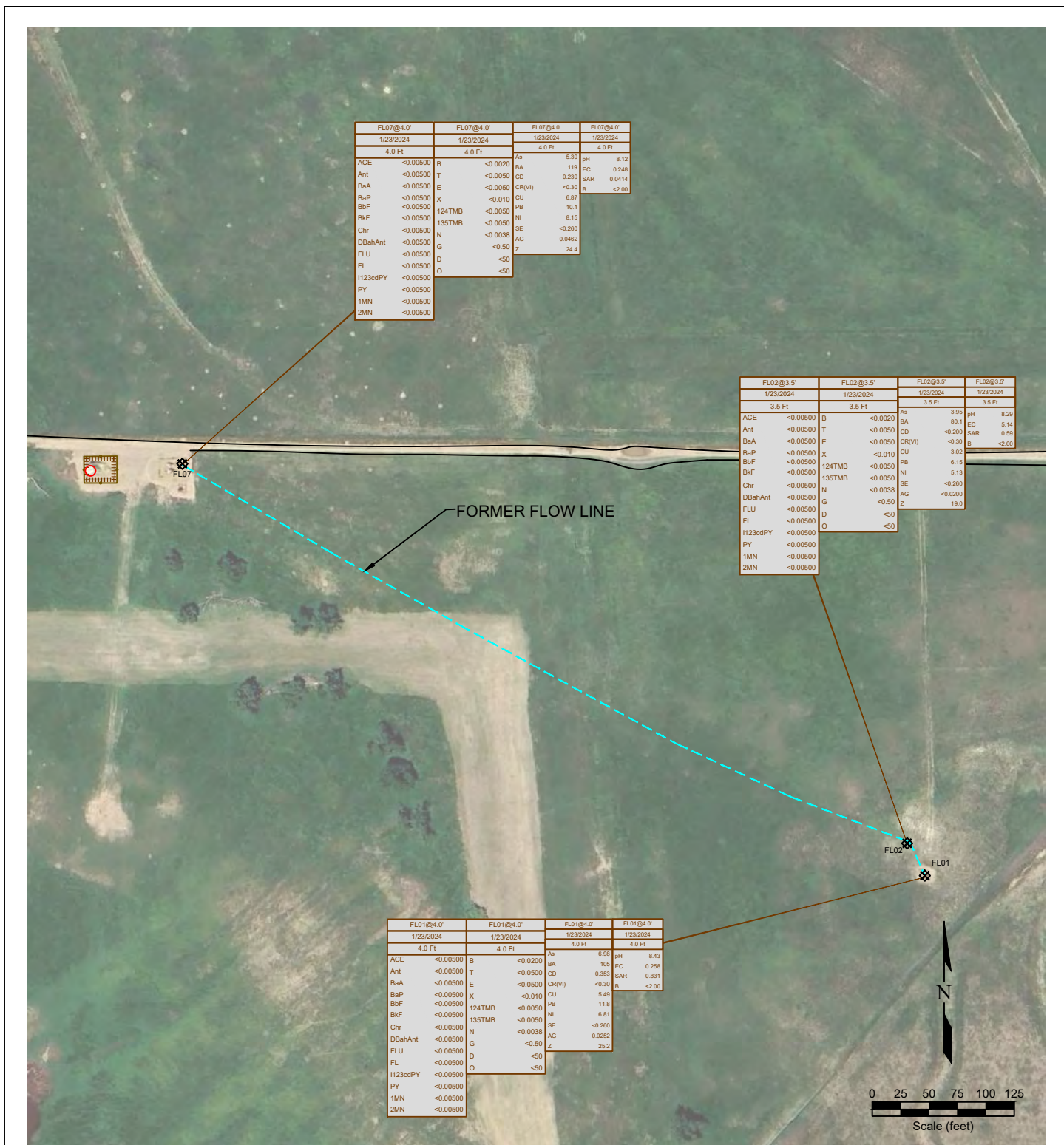
Figure 2
SITE MAP

NOBLE ENERGY INC ~ HUNTSMAN G 13-9

NESE Sec.13, T4N, R65W, 6th PM
Weld County, Colorado
40.310550°, -104.604642°

Project No. C024-017	API # 05-123-16321	Facility #
Date 5/29/24	Remediation # 31082	Filename 24017QFL





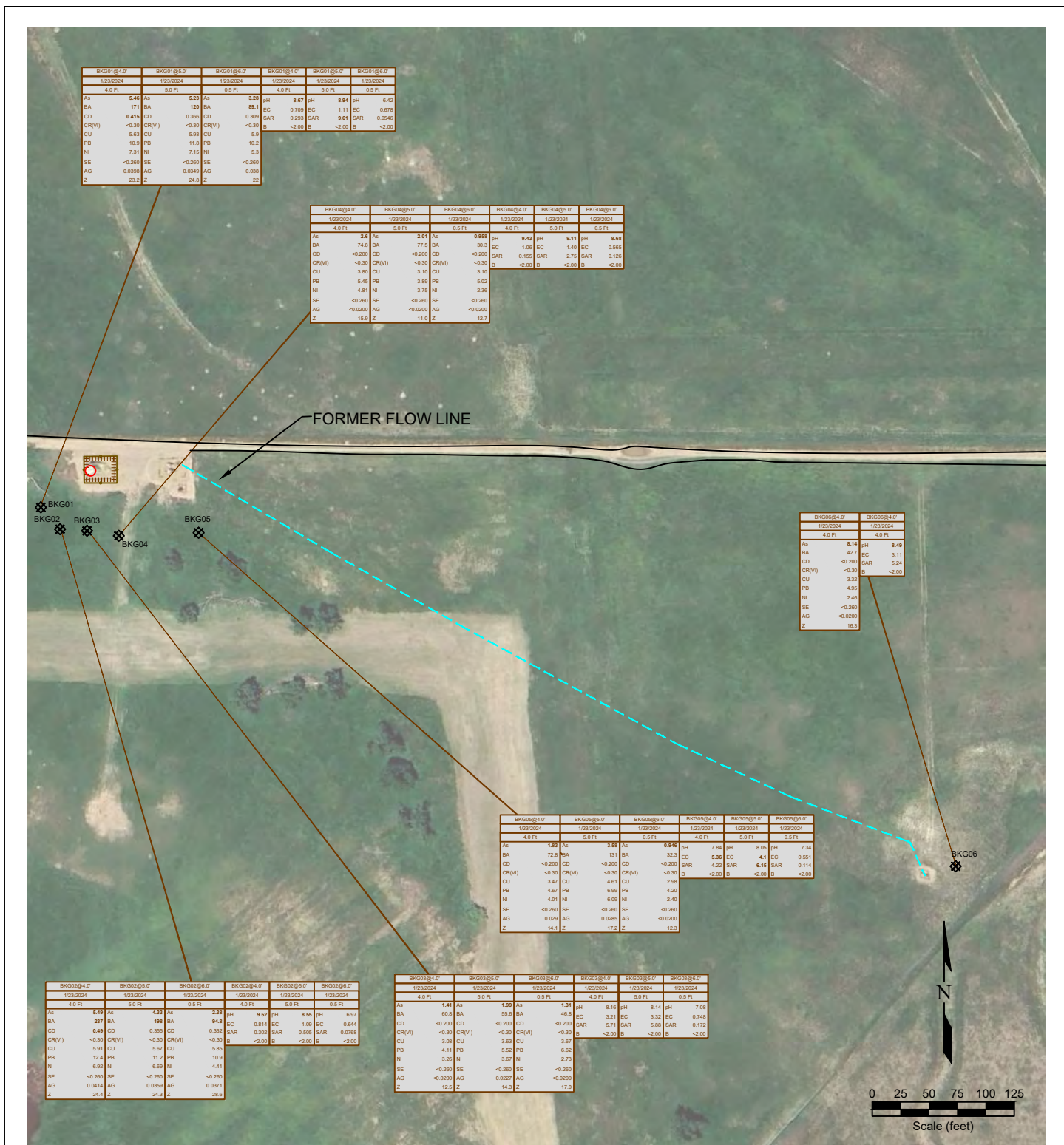
LEGEND	
	SOIL SAMPLE LOCATION
	ABOVE GROUND STORAGE TANK
	BUILDING
	FORMER FLOW LINE
	FENCE LINE
	CONTAINMENT BERM
	CONTAINMENT WALL
	NOT ANALYZED

SAMPLE ID	DATE	DEPTH	SAMPLE ID	DATE	DEPTH	SAMPLE ID	DATE	DEPTH	SAMPLE ID	DATE	DEPTH
ACE	<0.00500	ANTRACENE (mg/kg)	B	<0.0020	BENZENE (mg/kg)	As	<0.01	ARSENIC (mg/kg)	As	<0.01	ARSENIC (mg/kg)
Ant	<0.00500	BENZO (A) ANTHRACENE (mg/kg)	T	<0.0050	TOLUENE (mg/kg)	BA	<0.01	BARIUM (mg/kg)	BA	<0.01	BARIUM (mg/kg)
BaA	<0.00500	BENZO (A) PYRENE (mg/kg)	E	<0.0050	ETHYL BENZENE (mg/kg)	CD	<0.01	CADMIUM (mg/kg)	CD	<0.01	CADMIUM (mg/kg)
BaP	<0.00500	BENZO (B) FLUORANTHENE (mg/kg)	X	<0.010	TOTAL XYLENES (mg/kg)	CR(VI)	<0.05	CHROMIUM (mg/kg)	CR(VI)	<0.05	CHROMIUM (mg/kg)
BbF	<0.00500	BENZO (K) FLUORANTHENE (mg/kg)	124TMB	<0.0050	1,2,4-TRIMETHYLBENZENE (mg/kg)	CU	<0.01	COPPER (mg/kg)	CU	<0.01	COPPER (mg/kg)
BkF	<0.00500	BENZO (K) FLUORANTHENE (mg/kg)	135TMB	<0.0050	1,3,5-TRIMETHYLBENZENE (mg/kg)	NI	<0.05	NICKEL (mg/kg)	NI	<0.05	NICKEL (mg/kg)
Chr	<0.00500	CHRYSENE (mg/kg)	N	<0.0038	NAPHTHALENE (mg/kg)	SE	<0.5	SELENIUM (mg/kg)	SE	<0.5	SELENIUM (mg/kg)
DBahAnt	<0.00500	DIBENZ (A,H) ANTHRACENE (mg/kg)	G	<0.50	TPH-GRO (mg/kg)	AG	<0.05	SILVER (mg/kg)	AG	<0.05	SILVER (mg/kg)
FLU	<0.00500	FLUORANTHENE (mg/kg)	D	<50	TPH-ORO (mg/kg)	Z	<0.05	ZINC (mg/kg)	Z	<0.05	ZINC (mg/kg)
FL	<0.00500	FLUORENE (mg/kg)	O	<50	TPH-CRO (mg/kg)						
1123cdPY	<0.00500	1,2,3,4-DI-PYRENE (mg/kg)									
PY	<0.00500	PYRENE (mg/kg)									
1MN	<0.00500	1-METHYLNAPHTHALENE (mg/kg)									
2MN	<0.00500	2-METHYLNAPHTHALENE (mg/kg)									

Figure 3
SOIL CHEMISTRY MAP
NOBLE ENERGY INC ~ HUNTSMAN G 13-9

NESE Sec.13, T4N, R65W, 6th PM
Weld County, Colorado
40.310550, -104.604642°

Project No. C024-017	API # 05-123-16321	Facility #	
Date 5/29/24	Remediation # 31082	Filename 24017T	



BKG01@4.0'		BKG01@5.0'		BKG01@6.0'		BKG01@4.0'		BKG01@5.0'		BKG01@6.0'	
1/23/2024		1/23/2024		1/23/2024		1/23/2024		1/23/2024		1/23/2024	
4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft
As	5.46	As	5.23	As	3.28	pH	8.87	pH	9.94	pH	6.42
BA	171	BA	120	BA	89.1	EC	0.708	EC	1.11	EC	0.678
CD	0.418	CD	0.369	CD	0.309	SAR	0.288	SAR	9.61	SAR	0.0646
CR(VI)	<0.30	CR(VI)	<0.30	CR(VI)	<0.30	B	<2.00	B	<2.00	B	<2.00
CU	5.60	CU	5.60	CU	5.1						
PB	10.9	PB	11.8	PB	10.2						
NI	7.31	NI	7.15	NI	5.3						
SE	<0.260	SE	<0.260	SE	<0.260						
AG	0.0389	AG	0.0369	AG	0.038						
Z	23.2	Z	24.6	Z	22						

BKG04@4.0'		BKG04@5.0'		BKG04@6.0'		BKG04@4.0'		BKG04@5.0'		BKG04@6.0'	
1/23/2024		1/23/2024		1/23/2024		1/23/2024		1/23/2024		1/23/2024	
4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft
As	2.6	As	2.81	As	0.368	pH	9.43	pH	9.11	pH	8.68
BA	74.8	BA	77.5	BA	30.3	EC	1.06	EC	1.40	EC	0.565
CD	<0.30	CD	<0.30	CD	<0.30	SAR	0.189	SAR	2.79	SAR	0.126
CR(VI)	<0.30	CR(VI)	<0.30	CR(VI)	<0.30	B	<2.00	B	<2.00	B	<2.00
CU	3.80	CU	3.10	CU	3.10						
PB	5.45	PB	3.89	PB	5.02						
NI	4.61	NI	3.75	NI	2.36						
SE	<0.260	SE	<0.260	SE	<0.260						
AG	<0.0200	AG	<0.0200	AG	<0.0200						
Z	15.9	Z	11.0	Z	12.7						

BKG06@4.0'		BKG06@5.0'		BKG06@6.0'	
1/23/2024		1/23/2024		1/23/2024	
4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft
As	8.14	pH	8.49		
BA	42.7	EC	3.11		
CD	<0.200	SAR	5.34		
CR(VI)	<0.30	B	<2.00		
CU	3.32				
PB	4.95				
NI	2.46				
SE	<0.260				
AG	<0.0200				
Z	16.3				

BKG05@4.0'		BKG05@5.0'		BKG05@6.0'		BKG05@4.0'		BKG05@5.0'		BKG05@6.0'	
1/23/2024		1/23/2024		1/23/2024		1/23/2024		1/23/2024		1/23/2024	
4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft
As	1.82	As	3.58	As	6.946	pH	7.84	pH	8.55	pH	7.34
BA	72.8	BA	131	BA	32.3	EC	5.36	EC	4.1	EC	0.551
CD	<0.200	CD	<0.200	CD	<0.200	SAR	4.22	SAR	6.15	SAR	0.114
CR(VI)	<0.30	CR(VI)	<0.30	CR(VI)	<0.30	B	<2.00	B	<2.00	B	<2.00
CU	2.47	CU	4.81	CU	2.98						
PB	4.67	PB	6.99	PB	4.20						
NI	4.01	NI	6.09	NI	2.40						
SE	<0.260	SE	<0.260	SE	<0.260						
AG	0.029	AG	0.0285	AG	<0.0200						
Z	14.1	Z	17.3	Z	12.3						

BKG02@4.0'		BKG02@5.0'		BKG02@6.0'		BKG02@4.0'		BKG02@5.0'		BKG02@6.0'	
1/23/2024		1/23/2024		1/23/2024		1/23/2024		1/23/2024		1/23/2024	
4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft
As	6.40	As	4.33	As	2.38	pH	9.82	pH	8.58	pH	6.97
BA	237	BA	180	BA	94.6	EC	0.814	EC	1.06	EC	0.644
CD	0.49	CD	0.365	CD	0.332	SAR	0.302	SAR	0.505	SAR	0.0768
CR(VI)	<0.30	CR(VI)	<0.30	CR(VI)	<0.30	B	<2.00	B	<2.00	B	<2.00
CU	5.91	CU	5.67	CU	5.85						
PB	12.4	PB	11.2	PB	10.9						
NI	6.92	NI	6.69	NI	4.41						
SE	<0.260	SE	<0.260	SE	<0.260						
AG	0.0414	AG	0.0389	AG	0.0371						
Z	24.4	Z	24.3	Z	25.6						

BKG03@4.0'		BKG03@5.0'		BKG03@6.0'		BKG03@4.0'		BKG03@5.0'		BKG03@6.0'	
1/23/2024		1/23/2024		1/23/2024		1/23/2024		1/23/2024		1/23/2024	
4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft	4.0 Ft	5.0 Ft
As	1.41	As	1.99	As	1.31	pH	8.16	pH	8.14	pH	7.08
BA	60.8	BA	55.6	BA	48.8	EC	3.21	EC	3.32	EC	0.748
CD	<0.200	CD	<0.200	CD	<0.200	SAR	5.71	SAR	5.89	SAR	0.172
CR(VI)	<0.30	CR(VI)	<0.30	CR(VI)	<0.30	B	<2.00	B	<2.00	B	<2.00
CU	3.08	CU	3.63	CU	3.67						
PB	4.11	PB	5.52	PB	6.62						
NI	3.36	NI	3.67	NI	2.73						
SE	<0.260	SE	<0.260	SE	<0.260						
AG	<0.0200	AG	0.0227	AG	<0.0200						
Z	12.5	Z	14.3	Z	17.0						

Photo Log



Description:

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Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 07, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

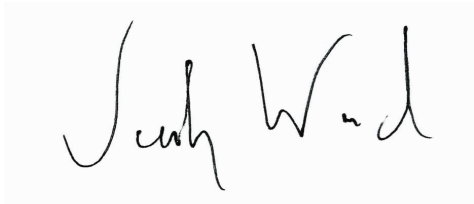
Wellington, CO 80549

RE: Noble - Huntsman G 13-9

Work Order #2401384

Enclosed are the results of analyses for samples received by Summit Scientific on 01/23/24 15:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

Reported:
03/07/24 10:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@4.0'	2401384-01	Soil	01/23/24 00:00	01/23/24 15:04
FL02@3.5'	2401384-02	Soil	01/23/24 00:00	01/23/24 15:04
FL07@4.0'	2401384-03	Soil	01/23/24 00:00	01/23/24 15:04

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.

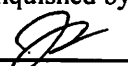
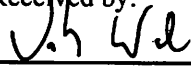
SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2401384	

Client: Fremont Env		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henchen		Company: Noble	
City/State/Zip:		E-Mail: Paulh@fremontenv.com		Project Name/Location: Huntsman G 13-9	
Phone:		Jeff@fremontenv.com Ethelb@fremontenv.com		AFE#:	
Sampler Name: J6		Project Name: Huntsman G 13-9		PO/Billing Codes: UWRWE-A3502-ABN	
		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX+N	TMBs (915)	DRO,ORO,GRD	PAHs (915)	EC,pH,SAR,Boron	Metals (915)	
1	FLO1@ 4.0'	01/23/24		2			X			X			X	X	X	X	X	X	
2	FLO2@ 3.5'	↓		↓			↓			↓			↓	↓	↓	↓	↓	↓	
3	FLO7@ 4.0'	↓		↓			↓			↓			↓	↓	↓	↓	↓	↓	
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: 	Date/Time: 01/23/24 1504	Received by: 	Date/Time: 1/23/24 15:04	TAT Business Days	Field DO	Notes: Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 16.1	Corrected Temperature:	IR gun #:	2	Standard	X	Field Turb.
				HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2401384Client: Fremont Client Project ID: Huntsman 6 13-9Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 16.1 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 file
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 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"/>	no sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input 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.

J. J. W. d.

Custodian Printed Name

1/23/24 15:04

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9

Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL01@4.0'
2401384-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0861	01/24/24	01/25/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0863	01/24/24	01/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.78	62.2 %	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 - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL01@4.0'
2401384-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0889	01/25/24	01/25/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0277	83.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0844	01/24/24	01/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

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

Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL01@4.0'
2401384-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	6.98	0.200	mg/kg dry	1	BHA1008	01/29/24	01/31/24	EPA 6020B
Barium	105	0.400	"	"	"	"	"	"
Cadmium	0.353	0.200	"	"	"	"	"	"
Copper	5.49	0.400	"	"	"	"	"	"
Lead	11.8	0.200	"	"	"	"	"	"
Nickel	6.81	0.400	"	"	"	"	"	"
Silver	0.0252	0.0200	"	"	"	"	"	"
Zinc	25.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0846	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.8	0.0500	mg/L dry	1	BHA0901	01/25/24	01/26/24	EPA 6020B	
Magnesium	11.4	0.0500	"	"	"	"	"	"	
Sodium	18.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.831	0.00100	units	1	BHA0999	01/29/24	01/30/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL01@4.0'
2401384-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.8	%	1	BHA0824	01/24/24	01/24/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.258	0.0100	mmhos/cm	1	BHA0921	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHA0920	01/26/24	01/26/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL02@3.5'
2401384-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0861	01/24/24	01/25/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0863	01/24/24	01/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.92	55.3 %	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 - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL02@3.5'
2401384-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0889	01/25/24	01/25/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0230	69.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0844	01/24/24	01/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

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

Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL02@3.5'
2401384-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	3.95	0.200	mg/kg dry	1	BHA1008	01/29/24	01/31/24	EPA 6020B
Barium	80.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.02	0.400	"	"	"	"	"	"
Lead	6.15	0.200	"	"	"	"	"	"
Nickel	5.13	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	19.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0846	01/24/24	01/24/24	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.14	0.0100	mmhos/cm	1	BHA0921	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BHA0920	01/26/24	01/26/24	EPA 9045D	

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Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL02@3.5'
2401384-02 (Soil)

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

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A handwritten signature in black ink that reads "Judy Wood".

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Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL02@3.5'
2401384-02 (Soil)

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	5.59	0.0500	mg/L dry	1	BHB0658	01/25/24	02/29/24	EPA 6020B	
Magnesium	2.57	0.0500	"	"	"	"	"	"	
Sodium	6.72	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.590	0.00100	units	1	BHB0807	01/29/24	02/29/24	Calculation	

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Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL07@4.0'
2401384-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0861	01/24/24	01/25/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0417	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0863	01/24/24	01/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.20	57.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL07@4.0'
2401384-03 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHA0889	01/25/24	01/25/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0274	82.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0844	01/24/24	01/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL07@4.0'
2401384-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	5.39	0.200	mg/kg dry	1	BHA1008	01/29/24	01/31/24	EPA 6020B
Barium	119	0.400	"	"	"	"	"	"
Cadmium	0.239	0.200	"	"	"	"	"	"
Copper	6.87	0.400	"	"	"	"	"	"
Lead	10.1	0.200	"	"	"	"	"	"
Nickel	8.15	0.400	"	"	"	"	"	"
Silver	0.0462	0.0200	"	"	"	"	"	"
Zinc	24.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0846	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	367	0.0500	mg/L dry	1	BHA0901	01/25/24	01/26/24	EPA 6020B	
Magnesium	28.8	0.0500	"	"	"	"	"	"	
Sodium	3.06	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0414	0.00100	units	1	BHA0999	01/29/24	01/30/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

FL07@4.0'
2401384-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.5	%	1	BHA0824	01/24/24	01/24/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.248	0.0100	mmhos/cm	1	BHA0921	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHA0920	01/26/24	01/26/24	EPA 9045D	

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Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA0861 - EPA 5030 Soil MS

Blank (BHA0861-BLK1)

Prepared: 01/24/24 Analyzed: 01/25/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	50-150			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

LCS (BHA0861-BS1)

Prepared: 01/24/24 Analyzed: 01/25/24

Benzene	0.0863	0.0020	mg/kg	0.100		86.3	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.210	0.010	"	0.200		105	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.0996	0.0050	"	0.100		99.6	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
Naphthalene	0.0848	0.0038	"	0.100		84.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0381		"	0.0400		95.2	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150			

Matrix Spike (BHA0861-MS1)

Source: 2401368-01

Prepared: 01/24/24 Analyzed: 01/25/24

Benzene	0.0779	0.0020	mg/kg	0.100	ND	77.9	70-130			
Toluene	0.0971	0.0050	"	0.100	ND	97.1	70-130			
Ethylbenzene	0.0931	0.0050	"	0.100	ND	93.1	70-130			
m,p-Xylene	0.187	0.010	"	0.200	ND	93.3	70-130			
o-Xylene	0.0928	0.0050	"	0.100	ND	92.8	70-130			
1,2,4-Trimethylbenzene	0.0901	0.0050	"	0.100	ND	90.1	70-130			
1,3,5-Trimethylbenzene	0.0908	0.0050	"	0.100	ND	90.8	70-130			
Naphthalene	0.0866	0.0038	"	0.100	ND	86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.7	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	50-150			

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Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA0861 - EPA 5030 Soil MS

Matrix Spike Dup (BHA0861-MSD1)	Source: 2401368-01			Prepared: 01/24/24 Analyzed: 01/25/24						
Benzene	0.0809	0.0020	mg/kg	0.100	ND	80.9	70-130	3.85	30	
Toluene	0.100	0.0050	"	0.100	ND	100	70-130	2.98	30	
Ethylbenzene	0.0947	0.0050	"	0.100	ND	94.7	70-130	1.79	30	
m,p-Xylene	0.190	0.010	"	0.200	ND	95.0	70-130	1.83	30	
o-Xylene	0.0942	0.0050	"	0.100	ND	94.2	70-130	1.48	30	
1,2,4-Trimethylbenzene	0.0901	0.0050	"	0.100	ND	90.1	70-130	0.0666	30	
1,3,5-Trimethylbenzene	0.0928	0.0050	"	0.100	ND	92.8	70-130	2.12	30	
Naphthalene	0.0875	0.0038	"	0.100	ND	87.5	70-130	1.03	30	
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.1	50-150			

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Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA0863 - EPA 3550A

Blank (BHA0863-BLK1)

Prepared & Analyzed: 01/24/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.2		"	12.5		89.9	30-150			

LCS (BHA0863-BS1)

Prepared & Analyzed: 01/24/24

C10-C28 (DRO)	468	50	mg/kg	500		93.6	70-130			
Surrogate: o-Terphenyl	9.53		"	12.5		76.2	30-150			

Matrix Spike (BHA0863-MS1)

Source: 2401368-01

Prepared & Analyzed: 01/24/24

C10-C28 (DRO)	447	50	mg/kg	500	9.53	87.4	70-130			
Surrogate: o-Terphenyl	6.44		"	12.5		51.5	30-150			

Matrix Spike Dup (BHA0863-MSD1)

Source: 2401368-01

Prepared & Analyzed: 01/24/24

C10-C28 (DRO)	457	50	mg/kg	500	9.53	89.4	70-130	2.18	20	
Surrogate: o-Terphenyl	6.18		"	12.5		49.4	30-150			

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Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA0889 - EPA 5030 Soil MS

Blank (BHA0889-BLK1)

Prepared & Analyzed: 01/25/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0296		"	0.0333		88.8	40-150			
Surrogate: Fluoranthene-d10	0.0377		"	0.0333		113	40-150			

LCS (BHA0889-BS1)

Prepared & Analyzed: 01/25/24

Acenaphthene	0.0335	0.00500	mg/kg	0.0333	100	31-137
Anthracene	0.0349	0.00500	"	0.0333	105	30-120
Benzo (a) anthracene	0.0280	0.00500	"	0.0333	84.0	30-120
Benzo (a) pyrene	0.0338	0.00500	"	0.0333	101	30-120
Benzo (b) fluoranthene	0.0364	0.00500	"	0.0333	109	30-120
Benzo (k) fluoranthene	0.0374	0.00500	"	0.0333	112	30-120
Chrysene	0.0358	0.00500	"	0.0333	107	30-120
Dibenz (a,h) anthracene	0.0323	0.00500	"	0.0333	96.9	30-120
Fluoranthene	0.0384	0.00500	"	0.0333	115	30-120
Fluorene	0.0360	0.00500	"	0.0333	108	30-120
Indeno (1,2,3-cd) pyrene	0.0227	0.00500	"	0.0333	68.1	30-120
Pyrene	0.0366	0.00500	"	0.0333	110	35-142
1-Methylnaphthalene	0.0362	0.00500	"	0.0333	109	35-142
2-Methylnaphthalene	0.0377	0.00500	"	0.0333	113	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0312		"	0.0333	93.6	40-150
Surrogate: Fluoranthene-d10	0.0386		"	0.0333	116	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 - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA0889 - EPA 5030 Soil MS

Matrix Spike (BHA0889-MS1)

Source: 2401384-01

Prepared & Analyzed: 01/25/24

Acenaphthene	0.0298	0.00500	mg/kg	0.0333	ND	89.4	31-137		
Anthracene	0.0354	0.00500	"	0.0333	ND	106	30-120		
Benzo (a) anthracene	0.0390	0.00500	"	0.0333	ND	117	30-120		
Benzo (a) pyrene	0.0398	0.00500	"	0.0333	ND	119	30-120		
Benzo (b) fluoranthene	0.0380	0.00500	"	0.0333	ND	114	30-120		
Benzo (k) fluoranthene	0.0388	0.00500	"	0.0333	ND	116	30-120		
Chrysene	0.0381	0.00500	"	0.0333	ND	114	30-120		
Dibenz (a,h) anthracene	0.0382	0.00500	"	0.0333	ND	115	30-120		
Fluoranthene	0.0366	0.00500	"	0.0333	ND	110	30-120		
Fluorene	0.0318	0.00500	"	0.0333	ND	95.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0330	0.00500	"	0.0333	ND	99.1	30-120		
Pyrene	0.0400	0.00500	"	0.0333	ND	120	35-142		
1-Methylnaphthalene	0.0433	0.00500	"	0.0333	ND	130	15-130		
2-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.3	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0363		"	0.0333		109	40-150		
Surrogate: Fluoranthene-d10	0.0378		"	0.0333		113	40-150		

Matrix Spike Dup (BHA0889-MSD1)

Source: 2401384-01

Prepared & Analyzed: 01/25/24

Acenaphthene	0.0358	0.00500	mg/kg	0.0333	ND	108	31-137	18.4	30
Anthracene	0.0361	0.00500	"	0.0333	ND	108	30-120	2.05	30
Benzo (a) anthracene	0.0361	0.00500	"	0.0333	ND	108	30-120	7.68	30
Benzo (a) pyrene	0.0354	0.00500	"	0.0333	ND	106	30-120	11.7	30
Benzo (b) fluoranthene	0.0372	0.00500	"	0.0333	ND	111	30-120	2.28	30
Benzo (k) fluoranthene	0.0328	0.00500	"	0.0333	ND	98.3	30-120	16.9	30
Chrysene	0.0349	0.00500	"	0.0333	ND	105	30-120	8.89	30
Dibenz (a,h) anthracene	0.0371	0.00500	"	0.0333	ND	111	30-120	2.79	30
Fluoranthene	0.0335	0.00500	"	0.0333	ND	101	30-120	8.82	30
Fluorene	0.0374	0.00500	"	0.0333	ND	112	30-120	16.3	30
Indeno (1,2,3-cd) pyrene	0.0292	0.00500	"	0.0333	ND	87.6	30-120	12.4	30
Pyrene	0.0344	0.00500	"	0.0333	ND	103	35-142	15.1	30
1-Methylnaphthalene	0.0374	0.00500	"	0.0333	ND	112	15-130	14.5	50
2-Methylnaphthalene	0.0260	0.00500	"	0.0333	ND	77.9	15-130	45.0	50
Surrogate: 2-Methylnaphthalene-d10	0.0323		"	0.0333		96.9	40-150		
Surrogate: Fluoranthene-d10	0.0337		"	0.0333		101	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 - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA0844 - EPA 3050B

Blank (BHA0844-BLK1)

Prepared: 01/24/24 Analyzed: 01/25/24

Boron ND 2.00 mg/L

LCS (BHA0844-BS1)

Prepared: 01/24/24 Analyzed: 01/25/24

Boron 4.60 2.00 mg/L 5.00 92.1 80-120

Duplicate (BHA0844-DUP1)

Source: 2401365-01

Prepared: 01/24/24 Analyzed: 01/25/24

Boron ND 2.00 mg/L ND 20

Matrix Spike (BHA0844-MS1)

Source: 2401365-01

Prepared: 01/24/24 Analyzed: 01/25/24

Boron 5.18 2.00 mg/L 5.00 ND 104 75-125

Matrix Spike Dup (BHA0844-MSD1)

Source: 2401365-01

Prepared: 01/24/24 Analyzed: 01/25/24

Boron 4.91 2.00 mg/L 5.00 ND 98.1 75-125 5.54 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA1008 - EPA 3050B

Blank (BHA1008-BLK1)

Prepared: 01/29/24 Analyzed: 01/31/24

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

LCS (BHA1008-BS1)

Prepared: 01/29/24 Analyzed: 01/31/24

Arsenic	37.7	0.200	mg/kg wet	40.0	94.2	80-120
Barium	39.3	0.400	"	40.0	98.1	80-120
Cadmium	1.92	0.200	"	2.00	96.2	80-120
Copper	42.6	0.400	"	40.0	106	80-120
Lead	19.3	0.200	"	20.0	96.6	80-120
Nickel	41.7	0.400	"	40.0	104	80-120
Silver	1.94	0.0200	"	2.00	97.0	80-120
Zinc	41.9	0.400	"	40.0	105	80-120
Selenium	3.93	0.260	"	4.00	98.1	80-120

Duplicate (BHA1008-DUP1)

Source: 2401382-01

Prepared: 01/29/24 Analyzed: 01/31/24

Arsenic	1.83	0.200	mg/kg dry	2.08	13.1	20
Barium	250	0.400	"	214	15.4	20
Cadmium	0.438	0.200	"	0.435	0.801	20
Copper	5.81	0.400	"	6.40	9.67	20
Lead	9.05	0.200	"	10.0	10.2	20
Nickel	3.99	0.400	"	4.24	6.08	20
Silver	0.0280	0.0200	"	0.0315	11.8	20
Zinc	53.4	0.400	"	47.5	11.6	20
Selenium	0.291	0.260	"	0.297	2.21	20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA1008 - EPA 3050B

Matrix Spike (BHA1008-MS1)		Source: 2401382-01			Prepared: 01/29/24 Analyzed: 01/31/24					
Arsenic	39.0	0.200	mg/kg dry	50.0	2.08	73.8	75-125			QM-05
Barium	252	0.400	"	50.0	214	75.0	75-125			
Cadmium	2.29	0.200	"	2.50	0.435	74.4	75-125			QM-05
Copper	35.1	0.400	"	50.0	6.40	57.3	75-125			QM-05
Lead	27.0	0.200	"	25.0	10.0	67.8	75-125			QM-05
Nickel	34.7	0.400	"	50.0	4.24	60.9	75-125			QM-05
Silver	1.94	0.0200	"	2.50	0.0315	76.5	75-125			
Zinc	80.5	0.400	"	50.0	47.5	66.0	75-125			QM-05
Selenium	4.34	0.260	"	5.00	0.297	80.9	75-125			

Matrix Spike Dup (BHA1008-MSD1)		Source: 2401382-01			Prepared: 01/29/24 Analyzed: 01/31/24					
Arsenic	39.4	0.200	mg/kg dry	50.0	2.08	74.7	75-125	1.12	25	QM-05
Barium	256	0.400	"	50.0	214	82.8	75-125	1.55	25	
Cadmium	2.36	0.200	"	2.50	0.435	77.1	75-125	2.92	25	
Copper	36.5	0.400	"	50.0	6.40	60.2	75-125	4.01	25	QM-05
Lead	27.6	0.200	"	25.0	10.0	70.2	75-125	2.21	25	QM-05
Nickel	35.8	0.400	"	50.0	4.24	63.2	75-125	3.37	25	QM-05
Silver	1.99	0.0200	"	2.50	0.0315	78.4	75-125	2.41	25	
Zinc	83.5	0.400	"	50.0	47.5	72.1	75-125	3.71	25	QM-05
Selenium	4.29	0.260	"	5.00	0.297	79.9	75-125	1.13	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA0846 - 3060A Mod

Blank (BHA0846-BLK1)

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0846-BS1)

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 22.6 0.30 mg/kg wet 25.0 90.6 80-120

Duplicate (BHA0846-DUP1)

Source: 2311401-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0846-MS1)

Source: 2311401-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 25.2 0.30 mg/kg dry 27.4 ND 92.2 75-125

Matrix Spike Dup (BHA0846-MSD1)

Source: 2311401-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 25.3 0.30 mg/kg dry 27.4 ND 92.4 75-125 0.217 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA0901 - General Preparation

Blank (BHA0901-BLK1)

Prepared: 01/25/24 Analyzed: 01/26/24

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

LCS (BHA0901-BS1)

Prepared: 01/25/24 Analyzed: 01/26/24

Calcium	5.51	0.0500	mg/L wet	5.00	110	70-130
Magnesium	5.63	0.0500	"	5.00	113	70-130
Sodium	5.48	0.0500	"	5.00	110	70-130

Batch BHB0658 - General Preparation

Blank (BHB0658-BLK1)

Prepared: 02/20/24 Analyzed: 02/29/24

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

LCS (BHB0658-BS1)

Prepared: 02/20/24 Analyzed: 02/29/24

Calcium	5.08	0.0500	mg/L wet	5.00	102	70-130
Magnesium	5.16	0.0500	"	5.00	103	70-130
Sodium	5.11	0.0500	"	5.00	102	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Huntsman G 13-9	
PO Box 1289	Project Number: UWRWE-A3502-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	03/07/24 10:33

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

Summit Scientific

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

Batch BHA0824 - General Preparation

Duplicate (BHA0824-DUP1)	Source: 2312187-24			Prepared & Analyzed: 01/24/24						
% Solids	89.9		%		90.4			0.539	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA0921 - General Preparation

Blank (BHA0921-BLK1)

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0921-BS1)

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BHA0921-DUP1)

Source: 2401384-01

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) 0.258 0.0100 mmhos/cm 0.258 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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 BHA0920 - General Preparation

LCS (BHA0920-BS1)

Prepared & Analyzed: 01/26/24

pH	9.14	pH Units	9.18	99.6	95-105
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Duplicate (BHA0920-DUP1)

Source: 2401384-01

Prepared & Analyzed: 01/26/24

pH	8.43	pH Units	8.43	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9

Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
03/07/24 10:33

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

January 31, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

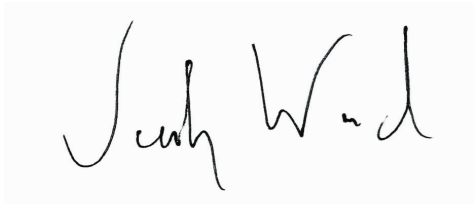
Wellington, CO 80549

RE: Noble - Huntsman (Backgrounds)

Work Order #2401383

Enclosed are the results of analyses for samples received by Summit Scientific on 01/23/24 15:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@6.0"	2401383-01	Soil	01/23/24 00:00	01/23/24 15:04
BKG01@4.0'	2401383-02	Soil	01/23/24 00:00	01/23/24 15:04
BKG01@5.0'	2401383-03	Soil	01/23/24 00:00	01/23/24 15:04
BKG02@6.0"	2401383-04	Soil	01/23/24 00:00	01/23/24 15:04
BKG02@4.0'	2401383-05	Soil	01/23/24 00:00	01/23/24 15:04
BKG02@5.0'	2401383-06	Soil	01/23/24 00:00	01/23/24 15:04
BKG03@6.0"	2401383-07	Soil	01/23/24 00:00	01/23/24 15:04
BKG03@4.0'	2401383-08	Soil	01/23/24 00:00	01/23/24 15:04
BKG03@5.0'	2401383-09	Soil	01/23/24 00:00	01/23/24 15:04
BKG04@6.0"	2401383-10	Soil	01/23/24 00:00	01/23/24 15:04
BKG04@4.0'	2401383-11	Soil	01/23/24 00:00	01/23/24 15:04
BKG04@5.0'	2401383-12	Soil	01/23/24 00:00	01/23/24 15:04
BKG05@6.0"	2401383-13	Soil	01/23/24 00:00	01/23/24 15:04
BKG05@4.0'	2401383-14	Soil	01/23/24 00:00	01/23/24 15:04
BKG05@5.0'	2401383-15	Soil	01/23/24 00:00	01/23/24 15:04

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

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

Lab ID	Page 1 of 1
2401383	

Client: Fremont Env		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henehan		Company: Noble	
City/State/Zip:		E-Mail: Paulh@fremontenv.com		Project Name/Location: Huntsmen 6 13-9	
Phone:		jeff@fremontenv.com Ethenb@fremontenv.com		AFE#:	
Sampler Name: JG		Project Name: Huntsmen (Backgrounds)		PO/Billing Codes: UWRWE-13502-ABN	
		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	EC, pH, SAR, Boron	Metals (915)					
1	BK601@6.0"	01/23/24		1			X			X		X	X					
2	BK601@4.0'																	
3	BK601@5.0'																	
4	BK602@6.0"																	
5	BK602@4.0'																	
6	BK602@5.0'																	
7	BK603@6.0"																	
8	BK603@4.0'																	
9	BK603@5.0'																	
10	BK604@6.0"																	
11	BK604@4.0'																	
12	BK604@5.0'																	
13	BK605@6.0"																	
14	BK605@4.0'																	
15	BK605@5.0'																	

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes: Bill to Noble
	01/23/24 1504	Jh Wil	1/23/24 15:04	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 13.9	Corrected Temperature	IR gun #:	2	HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2401383Client: Fremont Client Project ID: Huntman (Backgrounds)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 13.9 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 file
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 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"/>	No Sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input 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.

Vah Wel
Custodian Printed Name

1/23/24 15:04
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG01@6.0"
2401383-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.28	0.200		mg/kg dry	1	BHA1007	01/29/24	01/30/24	EPA 6020B	
Barium	89.1	0.400		"	"	"	"	"	"	
Cadmium	0.309	0.200		"	"	"	"	"	"	
Copper	5.90	0.400		"	"	"	"	"	"	
Lead	10.2	0.200		"	"	"	"	"	"	
Nickel	5.30	0.400		"	"	"	"	"	"	
Silver	0.0380	0.0200		"	"	"	"	"	"	
Zinc	22.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	96.0	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	33.7	0.0500		"	"	"	"	"	"	
Sodium	2.44	0.0500		"	"	"	"	"	"	

Summit Scientific

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Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG01@6.0"
2401383-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0546	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.8		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.678	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.42		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG01@4.0'
2401383-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.46	0.200		mg/kg dry	1	BHA1007	01/29/24	01/30/24	EPA 6020B	
Barium	171	0.400		"	"	"	"	"	"	
Cadmium	0.415	0.200		"	"	"	"	"	"	
Copper	5.63	0.400		"	"	"	"	"	"	
Lead	10.9	0.200		"	"	"	"	"	"	
Nickel	7.31	0.400		"	"	"	"	"	"	
Silver	0.0398	0.0200		"	"	"	"	"	"	
Zinc	23.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	8550	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	389	0.0500		"	"	"	"	"	"	
Sodium	102	0.0500		"	"	"	"	"	"	

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Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG01@4.0'
2401383-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.293	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.4		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.709	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.67		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG01@5.0'
2401383-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.23	0.200		mg/kg dry	1	BHA1007	01/29/24	01/30/24	EPA 6020B	
Barium	120	0.400		"	"	"	"	"	"	
Cadmium	0.366	0.200		"	"	"	"	"	"	
Copper	5.93	0.400		"	"	"	"	"	"	
Lead	11.8	0.200		"	"	"	"	"	"	
Nickel	7.15	0.400		"	"	"	"	"	"	
Silver	0.0349	0.0200		"	"	"	"	"	"	
Zinc	24.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	13.7	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	5.57	0.0500		"	"	"	"	"	"	
Sodium	167	0.0500		"	"	"	"	"	"	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG01@5.0'
2401383-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.61	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.11	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.94		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG02@6.0"
2401383-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.38	0.200		mg/kg dry	1	BHA1007	01/29/24	01/30/24	EPA 6020B	
Barium	94.8	0.400		"	"	"	"	"	"	
Cadmium	0.332	0.200		"	"	"	"	"	"	
Copper	5.85	0.400		"	"	"	"	"	"	
Lead	10.9	0.200		"	"	"	"	"	"	
Nickel	4.41	0.400		"	"	"	"	"	"	
Silver	0.0371	0.0200		"	"	"	"	"	"	
Zinc	28.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	127	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	43.3	0.0500		"	"	"	"	"	"	
Sodium	3.93	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG02@6.0"
2401383-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0768	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.644	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.97		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG02@4.0'
2401383-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.49	0.200		mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	237	0.400		"	"	"	"	"	"	
Cadmium	0.490	0.200		"	"	"	"	"	"	
Copper	5.91	0.400		"	"	"	"	"	"	
Lead	12.4	0.200		"	"	"	"	"	"	
Nickel	6.92	0.400		"	"	"	"	"	"	
Silver	0.0414	0.0200		"	"	"	"	"	"	
Zinc	24.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	1510	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	64.6	0.0500		"	"	"	"	"	"	
Sodium	44.1	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG02@4.0'
2401383-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.302	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.814	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.52		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG02@5.0'
2401383-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.33	0.200		mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	198	0.400		"	"	"	"	"	"	
Cadmium	0.355	0.200		"	"	"	"	"	"	
Copper	5.67	0.400		"	"	"	"	"	"	
Lead	11.2	0.200		"	"	"	"	"	"	
Nickel	6.69	0.400		"	"	"	"	"	"	
Silver	0.0359	0.0200		"	"	"	"	"	"	
Zinc	24.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	756	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	64.4	0.0500		"	"	"	"	"	"	
Sodium	53.8	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG02@5.0'
2401383-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.505	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.09	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG03@6.0"
2401383-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.31	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	46.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.67	0.400	"	"	"	"	"	"	
Lead	6.62	0.200	"	"	"	"	"	"	
Nickel	2.73	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	17.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	99.5	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	41.3	0.0500	"	"	"	"	"	"	
Sodium	8.08	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG03@6.0"
2401383-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.172	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.748	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.08		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG03@4.0'
2401383-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.41	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	60.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.08	0.400	"	"	"	"	"	"	
Lead	4.11	0.200	"	"	"	"	"	"	
Nickel	3.26	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	38.7	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	23.7	0.0500	"	"	"	"	"	"	
Sodium	183	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG03@4.0'
2401383-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.71	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.7		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.21	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG03@5.0'
2401383-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.99	0.200		mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	55.6	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.63	0.400		"	"	"	"	"	"	
Lead	5.52	0.200		"	"	"	"	"	"	
Nickel	3.67	0.400		"	"	"	"	"	"	
Silver	0.0227	0.0200		"	"	"	"	"	"	
Zinc	14.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	58.5	0.0500		mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	44.4	0.0500		"	"	"	"	"	"	
Sodium	245	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG03@5.0'
2401383-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.88	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.0		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.32	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG04@6.0"
2401383-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.958	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	30.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.10	0.400	"	"	"	"	"	"	
Lead	5.02	0.200	"	"	"	"	"	"	
Nickel	2.36	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	122	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	52.9	0.0500	"	"	"	"	"	"	
Sodium	6.64	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG04@6.0"
2401383-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.126	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.5		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.565	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.68		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG04@4.0'
2401383-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.60	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	74.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.80	0.400	"	"	"	"	"	"	
Lead	5.45	0.200	"	"	"	"	"	"	
Nickel	4.81	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	15.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	4580	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	147	0.0500	"	"	"	"	"	"	
Sodium	39.2	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG04@4.0'
2401383-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.155	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.5		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.06	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.43		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG04@5.0'
2401383-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.01	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	77.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.10	0.400	"	"	"	"	"	"	
Lead	3.89	0.200	"	"	"	"	"	"	
Nickel	3.75	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	15.4	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	6.57	0.0500	"	"	"	"	"	"	
Sodium	51.2	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG04@5.0'
2401383-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.75	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.40	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.11		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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PO Box 1289
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Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG05@6.0"
2401383-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.946	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	32.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.98	0.400	"	"	"	"	"	"	
Lead	4.20	0.200	"	"	"	"	"	"	
Nickel	2.40	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	60.3	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	3.72	0.0500	"	"	"	"	"	"	

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Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG05@6.0"
2401383-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.114	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.551	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.34		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG05@4.0'
2401383-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.83	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	72.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.47	0.400	"	"	"	"	"	"	
Lead	4.67	0.200	"	"	"	"	"	"	
Nickel	4.01	0.400	"	"	"	"	"	"	
Silver	0.0290	0.0200	"	"	"	"	"	"	
Zinc	14.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	301	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	137	0.0500	"	"	"	"	"	"	
Sodium	352	0.0500	"	"	"	"	"	"	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG05@4.0'
2401383-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.22	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.36	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG05@5.0'
2401383-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0852	01/24/24	01/26/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.58	0.200	mg/kg dry	1	BHA1007	01/29/24	01/31/24	EPA 6020B	
Barium	131	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.61	0.400	"	"	"	"	"	"	
Lead	6.99	0.200	"	"	"	"	"	"	
Nickel	6.09	0.400	"	"	"	"	"	"	
Silver	0.0285	0.0200	"	"	"	"	"	"	
Zinc	17.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0849	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	176	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	80.4	0.0500	"	"	"	"	"	"	
Sodium	392	0.0500	"	"	"	"	"	"	

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Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

BKG05@5.0'
2401383-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.15	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.10	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BHA0922	01/26/24	01/26/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

Reported:
01/31/24 10:41

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 BHA0852 - EPA 3050B

Blank (BHA0852-BLK1)

Prepared: 01/24/24 Analyzed: 01/26/24

Boron ND 2.00 mg/L

LCS (BHA0852-BS1)

Prepared: 01/24/24 Analyzed: 01/26/24

Boron 4.99 2.00 mg/L 5.00 99.8 80-120

Duplicate (BHA0852-DUP1)

Source: 2401382-01

Prepared: 01/24/24 Analyzed: 01/26/24

Boron 0.367 2.00 mg/L 0.356 2.87 20

Matrix Spike (BHA0852-MS1)

Source: 2401382-01

Prepared: 01/24/24 Analyzed: 01/26/24

Boron 5.71 2.00 mg/L 5.00 0.356 107 75-125

Matrix Spike Dup (BHA0852-MSD1)

Source: 2401382-01

Prepared: 01/24/24 Analyzed: 01/26/24

Boron 5.22 2.00 mg/L 5.00 0.356 97.2 75-125 9.04 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

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 BHA1007 - EPA 3050B

Blank (BHA1007-BLK1)

Prepared: 01/29/24 Analyzed: 01/30/24

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

LCS (BHA1007-BS1)

Prepared: 01/29/24 Analyzed: 01/30/24

Arsenic	37.5	0.200	mg/kg wet	40.0	93.8	80-120
Barium	39.1	0.400	"	40.0	97.8	80-120
Cadmium	2.14	0.200	"	2.00	107	80-120
Copper	38.9	0.400	"	40.0	97.3	80-120
Lead	21.9	0.200	"	20.0	110	80-120
Nickel	37.9	0.400	"	40.0	94.8	80-120
Silver	2.20	0.0200	"	2.00	110	80-120
Zinc	36.6	0.400	"	40.0	91.5	80-120
Selenium	4.32	0.260	"	4.00	108	80-120

Duplicate (BHA1007-DUP1)

Source: 2401383-01

Prepared: 01/29/24 Analyzed: 01/30/24

Arsenic	2.94	0.200	mg/kg dry	3.28	11.2	20
Barium	82.9	0.400	"	89.1	7.18	20
Cadmium	0.277	0.200	"	0.309	11.0	20
Copper	5.35	0.400	"	5.90	9.78	20
Lead	8.86	0.200	"	10.2	13.7	20
Nickel	4.89	0.400	"	5.30	8.08	20
Silver	0.0333	0.0200	"	0.0380	13.0	20
Zinc	19.4	0.400	"	22.0	12.4	20
Selenium	0.203	0.260	"	0.228	11.4	20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

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 BHA1007 - EPA 3050B

Matrix Spike (BHA1007-MS1)

Source: 2401383-01

Prepared: 01/29/24 Analyzed: 01/30/24

Arsenic	64.4	0.200	mg/kg dry	42.2	3.28	145	75-125			QM-07
Barium	138	0.400	"	42.2	89.1	116	75-125			
Cadmium	3.29	0.200	"	2.11	0.309	141	75-125			QM-07
Copper	42.1	0.400	"	42.2	5.90	85.8	75-125			
Lead	39.1	0.200	"	21.1	10.2	137	75-125			QM-07
Nickel	41.7	0.400	"	42.2	5.30	86.4	75-125			
Silver	3.03	0.0200	"	2.11	0.0380	142	75-125			QM-07
Zinc	56.9	0.400	"	42.2	22.0	82.8	75-125			
Selenium	6.35	0.260	"	4.22	0.228	145	75-125			QM-07

Matrix Spike Dup (BHA1007-MSD1)

Source: 2401383-01

Prepared: 01/29/24 Analyzed: 01/30/24

Arsenic	64.9	0.200	mg/kg dry	42.2	3.28	146	75-125	0.731	25	QM-07
Barium	141	0.400	"	42.2	89.1	122	75-125	1.76	25	
Cadmium	3.39	0.200	"	2.11	0.309	146	75-125	3.08	25	QM-07
Copper	43.0	0.400	"	42.2	5.90	87.9	75-125	2.08	25	
Lead	39.8	0.200	"	21.1	10.2	141	75-125	1.81	25	QM-07
Nickel	42.6	0.400	"	42.2	5.30	88.5	75-125	2.11	25	
Silver	3.10	0.0200	"	2.11	0.0380	145	75-125	2.36	25	QM-07
Zinc	58.2	0.400	"	42.2	22.0	86.0	75-125	2.32	25	
Selenium	6.61	0.260	"	4.22	0.228	151	75-125	4.00	25	QM-07

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

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 BHA0849 - 3060A Mod

Blank (BHA0849-BLK1)

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0849-BS1)

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 22.6 0.30 mg/kg wet 25.0 90.6 80-120

Duplicate (BHA0849-DUP1)

Source: 2401383-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0849-MS1)

Source: 2401383-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 22.7 0.30 mg/kg dry 26.4 ND 86.0 75-125

Matrix Spike Dup (BHA0849-MSD1)

Source: 2401383-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 22.5 0.30 mg/kg dry 26.4 ND 85.2 75-125 0.935 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

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 BHA0899 - General Preparation

Blank (BHA0899-BLK1)

Prepared: 01/25/24 Analyzed: 01/26/24

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

LCS (BHA0899-BS1)

Prepared: 01/25/24 Analyzed: 01/26/24

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.54	0.0500	"	5.00	111	70-130
Sodium	5.40	0.0500	"	5.00	108	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Huntsman (Backgrounds)	
PO Box 1289	Project Number: UWRWE-A3502-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	01/31/24 10:41

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

Summit Scientific

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

Batch BHA0824 - General Preparation

Duplicate (BHA0824-DUP1)		Source: 2312187-24			Prepared & Analyzed: 01/24/24					
% Solids	89.9		%		90.4			0.539	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 - Huntsman (Backgrounds)

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

Reported:
01/31/24 10:41

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 BHA0923 - General Preparation

Blank (BHA0923-BLK1)

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0923-BS1)

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHA0923-DUP1)

Source: 2401383-01

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) 0.663 0.0100 mmhos/cm 0.678 2.31 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

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 BHA0922 - General Preparation

LCS (BHA0922-BS1)

Prepared & Analyzed: 01/26/24

pH	9.30	pH Units	9.18	101	95-105
----	------	----------	------	-----	--------

Duplicate (BHA0922-DUP1)

Source: 2401383-01

Prepared & Analyzed: 01/26/24

pH	6.35	pH Units	6.42	1.10	20
----	------	----------	------	------	----

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman (Backgrounds)

Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/31/24 10:41

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

January 30, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

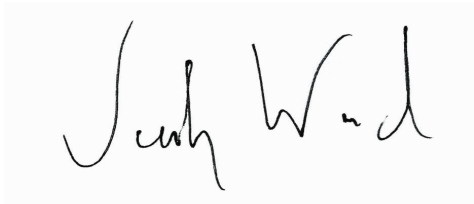
Wellington, CO 80549

RE: Noble - Huntsman G 13-9 (BKG)

Work Order #2401385

Enclosed are the results of analyses for samples received by Summit Scientific on 01/23/24 15:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/30/24 10:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG06@4.0'	2401385-01	Soil	01/23/24 00:00	01/23/24 15:04

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.

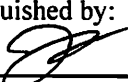
SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2401385	

Client: Fremont Env		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henehan		Company: Noble	
City/State/Zip:		E-Mail: Paulh@fremontenv.com		Project Name/Location: Hunters G 13-9	
Phone:		jeff@fremontenv.com Ethamb@fremontenv.com		AFE#:	
Sampler Name: JG		Project Name: Hunters G 13-9 (BK6)		PO/Billing Codes: UWRWE-A3502-ABN	
		Project Number:		Contact:	

					Preservative				Matrix			Analysis Requested						Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC, pH, SAR, Boron	Metals (915)				
1	BK60604.0'	01/23/24		1			X			X			X	X				
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

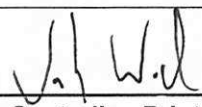
Relinquished by: 	Date/Time: 01/23/24 1504	Received by: J. H. V. d.	Date/Time: 1/23/24 15:04	TAT Business Days	Field DO	Notes: Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 15.7	Corrected Temperature	IR gun #:	2	HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2401385Client: Fremont Client Project ID: Huntsman 6 13-9 (BKG)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 15.7Thermometer # 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	No Sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input 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

1/23/24 15:04
 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/30/24 10:52

BKG06@4.0'
2401385-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0844	01/24/24	01/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	8.14	0.200	mg/kg dry	1	BHA0823	01/24/24	01/25/24	EPA 6020B	
Barium	42.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.32	0.400	"	"	"	"	"	"	
Lead	4.95	0.200	"	"	"	"	"	"	
Nickel	2.46	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	16.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0846	01/24/24	01/24/24	EPA 7196A	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	66.1	0.0500	mg/L dry	1	BHA0899	01/25/24	01/26/24	EPA 6020B	
Magnesium	121	0.0500	"	"	"	"	"	"	
Sodium	310	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9 (BKG)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/30/24 10:52

BKG06@4.0'
2401385-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.24	0.00100	units	1	BHA0998	01/29/24	01/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BHA0824	01/24/24	01/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.11	0.0100	mmhos/cm	1	BHA0923	01/26/24	01/26/24	EPA 120.1	

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

Date Sampled: **01/23/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BHA0922	01/26/24	01/26/24	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 - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

Reported:
01/30/24 10:52

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 BHA0844 - EPA 3050B

Blank (BHA0844-BLK1)

Prepared: 01/24/24 Analyzed: 01/25/24

Boron	ND	2.00	mg/L
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LCS (BHA0844-BS1)

Prepared: 01/24/24 Analyzed: 01/25/24

Boron	4.60	2.00	mg/L	5.00	92.1	80-120
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Duplicate (BHA0844-DUP1)

Source: 2401365-01

Prepared: 01/24/24 Analyzed: 01/25/24

Boron	ND	2.00	mg/L	ND		20
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Matrix Spike (BHA0844-MS1)

Source: 2401365-01

Prepared: 01/24/24 Analyzed: 01/25/24

Boron	5.18	2.00	mg/L	5.00	ND	104	75-125
-------	------	------	------	------	----	-----	--------

Matrix Spike Dup (BHA0844-MSD1)

Source: 2401365-01

Prepared: 01/24/24 Analyzed: 01/25/24

Boron	4.91	2.00	mg/L	5.00	ND	98.1	75-125	5.54	25
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9 (BKG)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/30/24 10:52

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 BHA0823 - EPA 3050B

Blank (BHA0823-BLK1)

Prepared: 01/24/24 Analyzed: 01/25/24

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

LCS (BHA0823-BS1)

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	33.3	0.200	mg/kg wet	40.0	83.1	80-120
Barium	33.0	0.400	"	40.0	82.5	80-120
Cadmium	1.64	0.200	"	2.00	82.0	80-120
Copper	34.6	0.400	"	40.0	86.4	80-120
Lead	16.3	0.200	"	20.0	81.3	80-120
Nickel	34.3	0.400	"	40.0	85.8	80-120
Silver	1.67	0.0200	"	2.00	83.4	80-120
Zinc	34.7	0.400	"	40.0	86.7	80-120
Selenium	3.41	0.260	"	4.00	85.2	80-120

Duplicate (BHA0823-DUP1)

Source: 2401364-01

Prepared: 01/24/24 Analyzed: 01/25/24

Arsenic	0.869	0.200	mg/kg dry	0.846	2.67	20
Barium	17.5	0.400	"	19.4	10.1	20
Cadmium	0.0753	0.200	"	0.0717	5.01	20
Copper	1.66	0.400	"	1.50	9.95	20
Lead	2.48	0.200	"	2.48	0.00	20
Nickel	1.47	0.400	"	1.41	4.43	20
Silver	0.00614	0.0200	"	0.00778	23.5	20
Zinc	6.62	0.400	"	6.70	1.13	20
Selenium	ND	0.260	"	ND		20

QR-01

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9 (BKG)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/30/24 10:52

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 BHA0823 - EPA 3050B

Matrix Spike (BHA0823-MS1)			Source: 2401364-01		Prepared: 01/24/24 Analyzed: 01/25/24					
Arsenic	33.2	0.200	mg/kg dry	40.9	0.846	79.1	75-125			
Barium	50.8	0.400	"	40.9	19.4	76.8	75-125			
Cadmium	1.64	0.200	"	2.05	0.0717	76.7	75-125			
Copper	30.5	0.400	"	40.9	1.50	70.8	75-125			QM-05
Lead	18.3	0.200	"	20.5	2.48	77.3	75-125			
Nickel	30.1	0.400	"	40.9	1.41	70.1	75-125			QM-05
Silver	1.59	0.0200	"	2.05	0.00778	77.1	75-125			
Zinc	36.3	0.400	"	40.9	6.70	72.2	75-125			QM-05
Selenium	3.07	0.260	"	4.09	ND	75.1	75-125			

Matrix Spike Dup (BHA0823-MSD1)			Source: 2401364-01		Prepared: 01/24/24 Analyzed: 01/25/24					
Arsenic	33.2	0.200	mg/kg dry	40.9	0.846	78.9	75-125	0.187	25	
Barium	50.1	0.400	"	40.9	19.4	75.1	75-125	1.42	25	
Cadmium	1.64	0.200	"	2.05	0.0717	76.5	75-125	0.250	25	
Copper	30.2	0.400	"	40.9	1.50	70.1	75-125	0.912	25	QM-05
Lead	18.2	0.200	"	20.5	2.48	76.6	75-125	0.723	25	
Nickel	30.1	0.400	"	40.9	1.41	70.0	75-125	0.132	25	QM-05
Silver	1.57	0.0200	"	2.05	0.00778	76.5	75-125	0.829	25	
Zinc	35.4	0.400	"	40.9	6.70	70.1	75-125	2.35	25	QM-05
Selenium	3.16	0.260	"	4.09	ND	77.2	75-125	2.73	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Huntsman G 13-9 (BKG)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/30/24 10:52

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 BHA0846 - 3060A Mod

Blank (BHA0846-BLK1)

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0846-BS1)

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 22.6 0.30 mg/kg wet 25.0 90.6 80-120

Duplicate (BHA0846-DUP1)

Source: 2311401-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0846-MS1)

Source: 2311401-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 25.2 0.30 mg/kg dry 27.4 ND 92.2 75-125

Matrix Spike Dup (BHA0846-MSD1)

Source: 2311401-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 25.3 0.30 mg/kg dry 27.4 ND 92.4 75-125 0.217 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 - Huntsman G 13-9 (BKG)
Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/30/24 10:52

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 BHA0899 - General Preparation

Blank (BHA0899-BLK1)

Prepared: 01/25/24 Analyzed: 01/26/24

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

LCS (BHA0899-BS1)

Prepared: 01/25/24 Analyzed: 01/26/24

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.54	0.0500	"	5.00	111	70-130
Sodium	5.40	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 - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

Reported:

01/30/24 10:52

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 BHA0824 - General Preparation

Duplicate (BHA0824-DUP1)		Source: 2312187-24			Prepared & Analyzed: 01/24/24					
% Solids	89.9		%		90.4			0.539	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 - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN

Project Manager: Paul Henchan

Reported:
01/30/24 10:52

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 BHA0923 - General Preparation

Blank (BHA0923-BLK1)

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0923-BS1)

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHA0923-DUP1)

Source: 2401383-01

Prepared & Analyzed: 01/26/24

Specific Conductance (EC) 0.663 0.0100 mmhos/cm 0.678 2.31 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 - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/30/24 10:52

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 BHA0922 - General Preparation

LCS (BHA0922-BS1)

Prepared & Analyzed: 01/26/24

pH	9.30	pH Units	9.18	101	95-105
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Duplicate (BHA0922-DUP1)

Source: 2401383-01

Prepared & Analyzed: 01/26/24

pH	6.35	pH Units	6.42	1.10	20
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Summit Scientific

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PO Box 1289
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Project: Noble - Huntsman G 13-9 (BKG)

Project Number: UWRWE-A3502-ABN
Project Manager: Paul Henchan

Reported:
01/30/24 10:52

Notes and Definitions

QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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