

FREMONT ENVIRONMENTAL INC.

February 19, 2024

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

Subject: **Facility Closure Data Submittal**
Dechant D 31-24D Facility
SWSE Sec. 31, T3N, R64W
Weld County, Colorado
Fremont Project No. C023-291
Facility # 329252, Remediation # 21058

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted facility closure activities for the Noble Energy Inc. (Noble) Dechant D 31-24D. Impacted soil was not encountered during abandonment activities. Details of the Dechant D 31-24D facility closure activities are documented in the attached Closure Report. Groundwater was not encountered during facility 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. Henehan, P.E.
Senior Consultant

Attachments:

Facility Closure Checklist
Tables
Figures
Photos
Laboratory Report

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

Tank Battery Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number:		Date:						Remediation Project #:
Associated Wells:		Age of Site:						Number of Photos Attached:
Location: (GPS coordinates of southeaster berm)								Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
USCS Soil Type:					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Tanks								
Tank Contents								
Size (barrels)								
Age								
Construction Material								
Tank type (AST/DRU, etc.)								
Visual Integrity of Tank								
Condition of tank footprint								
PID Readings								
Soil impacts present at valves or hatches?								
PID Readings								
Sample taken? Location/ Sample ID#								
Photo Number(s)								
Other observations regarding tanks:								
Separators								
Separator size								
Vertical or Horizontal								
Age								
Soil impacts observed? If yes,								
PID Readings								
Sample taken? Location/ Sample ID#								
Photo Number(s)								
Other observations regarding separators								
Third Party Equipment								
Type								
Age								

Third Party														
Removal Date														
Sample taken?														
PID Readings														
Photo Number(s)														
Other Facility Equipment														
Equipment type														
Equipment Condition														
Age														
Soil impacts observed during														
PID Readings														
Sample taken?														
Photo Number(s)														
Other observations regarding other facility or third party equipment:														
Summary														
Was impacted soil identified?														
<div> <div>No</div> <div>Yes - less than 10 cubic yards</div> <div>Yes - more than 10 cubic yards</div> </div>														
Total number of samples field screened:					Total number of samples collected:									
Highest PID Reading:					Total number of samples submitted to lab for analysis:									
If more than 10 cubic yards of impacted soil were observed:														
Vertical extent:					Estimated spill volume:									
Lateral extent:					Volume of soil removed:									
Is additional investigation required?														
Was groundwater encountered during the investigation?														
<div> <div>No</div> <div>Yes - not impacted or in contact with impacted soils</div> <div>Yes - groundwater impacted and/or in contact with impacted soils</div> </div>														
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No									
Date Groundwater was encountered:					Commencement date of removal:									
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:									
Free product observed? Yes No					Volume of groundwater removed post sampling:									
Total number of samples collected:					Total Volume of groundwater removed:									
Total number of samples submitted to lab for analysis:														

Buried or Partially Buried Vessel Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Tank Battery Closure
Site Name & COGCC Facility Number:		Date:						Remediation Project #:
Associated Wells:		Age of Site:						Number of Photos Attached:
Location: (GPS coordinates of vault or southeastern tank berm for multiple)								Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
USCS Soil Type:					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Buried or Partially Buried Vessels								
Tank Contents								
Size (barrels)								
Age								
Construction Material								
Visual Integrity of Tank								
Condition of tank Foundation								
PID Readings								
Condition of Access Ladder								
PID Readings								
Sample taken? Location/Sample ID#								
Photo Number(s)								
Other observations regarding partially buried vessels:								
Summary								
Was impacted soil identified? <div style="display: flex; justify-content: space-between;"> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards </div>								
Total number of samples field screened:					Total number of samples collected:			
Highest PID Reading:					Total number of samples submitted to lab for analysis:			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required?								
Was groundwater encountered during the investigation? <div style="display: flex; justify-content: space-between;"> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils </div>								
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:			
Free product observed? Yes No					Volume of groundwater removed post sampling:			
Total number of samples collected:					Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:								

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
DECHANT D 31-24D, WELD COUNTY, COLORADO
REM # 21058

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
AST01@0.5'	11/09/2023	0.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
PWV01-B@5'	11/09/2023	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
PWV01-S@4'	11/09/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SEP01-DL@4'	11/09/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SEP02-DL@4'	11/09/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. * Indicates laboratory minimum detection limit in excess of SSL
 4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg
- NA - Not analyzed

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

= Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
DECHANT D 31-24D, WELD COUNTY, COLORADO
REM # 21058

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
AST01@0.5'	11/09/2023	0.5'	<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
PWV01-B@5'	11/09/2023	5'	<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
PWV01-S@4'	11/09/2023	4'	<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
SEP01-DL@4'	11/09/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00507	<0.00500	<0.00500
SEP02-DL@4'	11/09/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

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

NA - Not analyzed

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

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
DECHANT D 31-24D, WELD COUNTY, COLORADO
REM # 21058

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
AST01@0.5'	11/09/2023	0.5'	7.47	0.466	0.312	<2.00
PWV01-B@5'	11/09/2023	5'	9.27	0.0790	0.0360	<2.00
PWV01-S@4'	11/09/2023	4'	7.49	0.0125	0.0330	<2.00
SEP01-DL@4'	11/09/2023	4'	8.39	1.12	1.04	<2.00
SEP02-DL@4'	11/09/2023	4'	8.06	0.649	0.216	<2.00
BKG01@0.5'	11/09/2023	0.5'	7.31	0.531	0.335	<2.00
BKG01@4'	11/09/2023	4'	8.74	0.230	0.731	<2.00
BKG01@5'	11/09/2023	5'	7.67	0.479	0.354	<2.00

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BKG02@0.5'	11/09/2023	0.5'	7.70	0.440	0.312	<2.00
BKG02@4'	11/09/2023	4'	7.49	0.443	0.305	<2.00
BKG02@5'	11/09/2023	5'	7.30	0.548	0.309	<2.00
BKG03@0.5'	11/09/2023	0.5'	7.59	0.509	0.372	<2.00
BKG03@4'	11/09/2023	4'	8.04	0.584	0.418	<2.00
BKG03@5'	11/09/2023	5'	7.81	0.433	0.311	<2.00
BKG04@0.5'	11/09/2023	0.5'	7.58	0.404	0.300	<2.00
BKG04@4'	11/09/2023	4'	7.67	0.460	0.334	<2.00
BKG04@5'	11/09/2023	5'	7.56	0.443	0.327	<2.00
BKG05@0.5'	11/09/2023	0.5'	7.82	0.492	0.337	<2.00
BKG05@4'	11/09/2023	4'	7.82	0.294	0.207	<2.00
BKG05@5'	11/09/2023	5'	7.45	0.444	0.272	<2.00
Maximum Root Background Concentration (0 - 3 ft)			7.82	NA	NA	NA
Average Root Background Concentration (0 - 3 ft)			7.60	NA	NA	NA
Maximum Background Concentration			8.74	NA	NA	NA
Average Background Concentration			7.703	NA	NA	NA

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

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

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

 = Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
DECHANT D 31-24D, WELD COUNTY, COLORADO
REM # 21058

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
AST01@0.5'	11/09/2023	0.5'	1.89	40.1	<0.200	<0.30	3.34	2.84	3.00	<0.260	<0.0200	11.5
PWV01-B@5'	11/09/2023	5'	0.827	6.64	<0.200	<0.30	1.71	1.10	1.33	<0.260	<0.0200	4.79
PWV01-S@4'	11/09/2023	4'	0.729	7.03	<0.200	<0.30	1.65	1.14	1.38	<0.260	<0.0200	4.15
SEP01-DL@4'	11/09/2023	4'	2.97	62.6	0.217	<0.30	6.30	7.16	5.03	0.333	0.0321	28.1
SEP02-DL@4'	11/09/2023	4'	2.11	40.4	<0.200	<0.30	3.96	4.15	4.06	<0.260	<0.0200	14.6
BKG01@0.5'	11/09/2023	0.5'	2.64	92.6	0.231	<0.30	7.93	19.3	4.90	<0.260	0.0446	36.8
BKG01@4'	11/09/2023	4'	2.61	96.8	0.219	<0.30	7.97	19.0	4.89	<0.260	0.0439	35.3
BKG01@5'	11/09/2023	5'	2.53	80.9	<0.200	<0.30	7.36	17.8	4.38	<0.260	0.0400	31.7
BKG02@0.5'	11/09/2023	0.5'	2.60	90.1	0.212	<0.30	7.41	21.8	4.68	<0.260	0.0424	33.7
BKG02@4'	11/09/2023	4'	2.46	91.2	0.217	<0.30	7.53	24.0	4.58	<0.260	0.0433	36.6
BKG02@5'	11/09/2023	5'	2.77	115	0.263	<0.30	8.13	26.3	5.18	<0.260	0.0531	41.6
BKG03@0.5'	11/09/2023	0.5'	2.14	71.2	<0.200	<0.30	6.41	14.6	4.22	<0.260	0.0331	27.3
BKG03@4'	11/09/2023	4'	3.02	100	0.239	<0.30	7.68	27.1	5.07	<0.260	0.0481	37.4
BKG03@5'	11/09/2023	5'	2.41	85.3	0.211	<0.30	6.80	22.4	4.44	<0.260	0.0402	44.8
BKG04@0.5'	11/09/2023	0.5'	2.58	89.8	0.217	<0.30	7.13	16.8	4.83	<0.260	0.0434	31.0
BKG04@4'	11/09/2023	4'	2.96	100	0.250	<0.30	10.8	21.2	5.38	<0.260	0.0467	37.4
BKG04@5'	11/09/2023	5'	2.97	99.1	0.242	<0.30	7.55	36.1	5.19	0.264	0.0472	34.2
BKG05@0.5'	11/09/2023	0.5'	2.60	91.8	0.216	<0.30	7.34	19.9	4.73	<0.260	0.0473	34.4
BKG05@4'	11/09/2023	4'	2.13	80.1	<0.200	<0.30	6.66	18.8	4.36	<0.260	0.0394	39.6
BKG05@5'	11/09/2023	5'	2.31	80.1	<0.200	<0.30	6.66	18.8	4.36	<0.260	0.0394	39.6
Maximum Root Zone Background Concentration (0 - 3 ft)			2.64	92.6	NA	NA	NA	21.8	NA	NA	NA	NA
125% Average Root Zone Background Concentration (0 - 3 ft)			3.14	108.9	NA	NA	NA	23.1	NA	NA	NA	NA
Maximum Background Concentration			3.02	115.0	NA	NA	NA	36.1	NA	0.264	NA	NA
125% Average Background Concentration			3.23	113.67	NA	NA	NA	27.0	NA	0.330	NA	NA

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

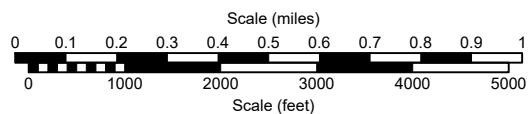
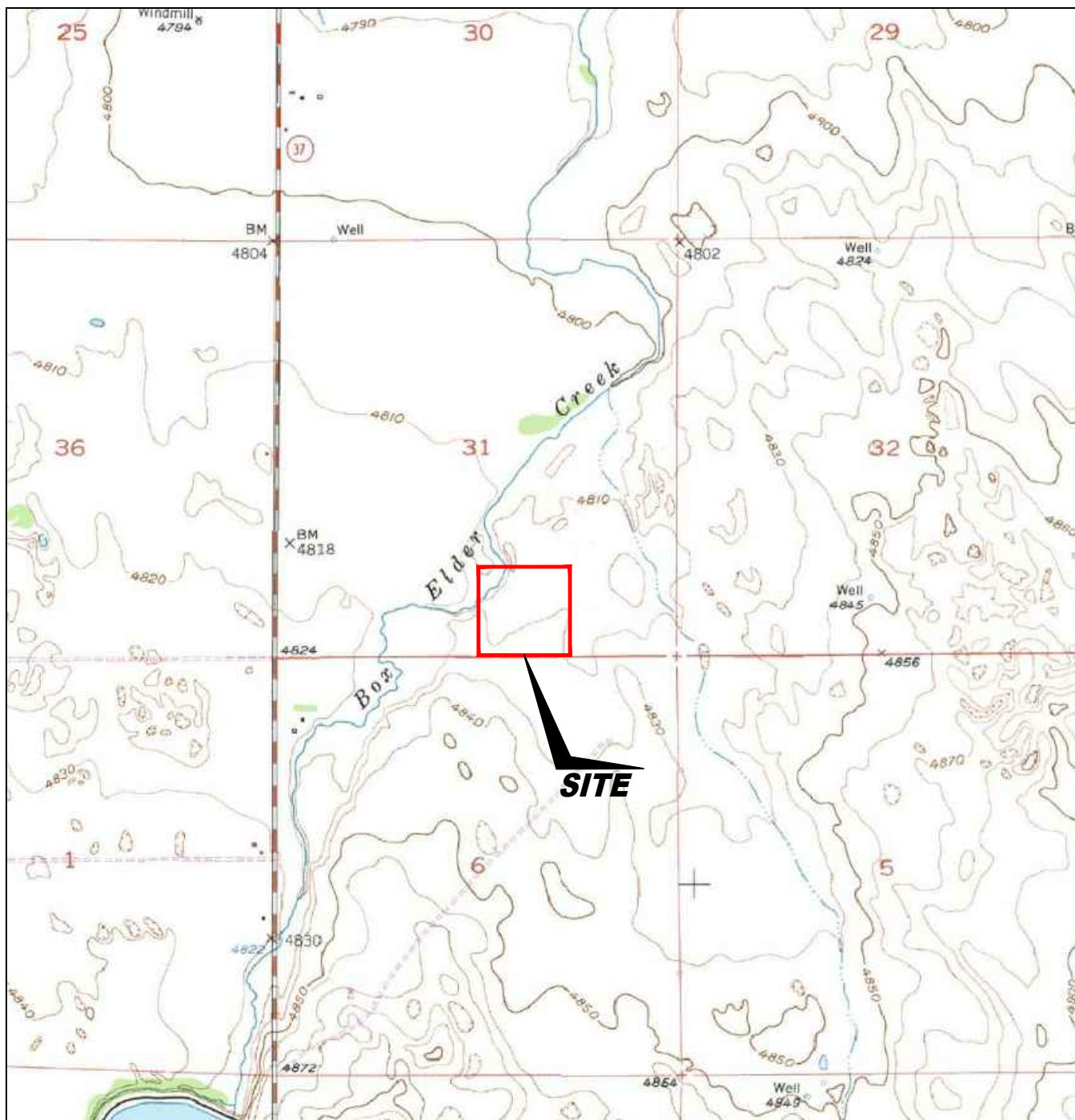
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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

 = Material excavated and transported off site for disposal.



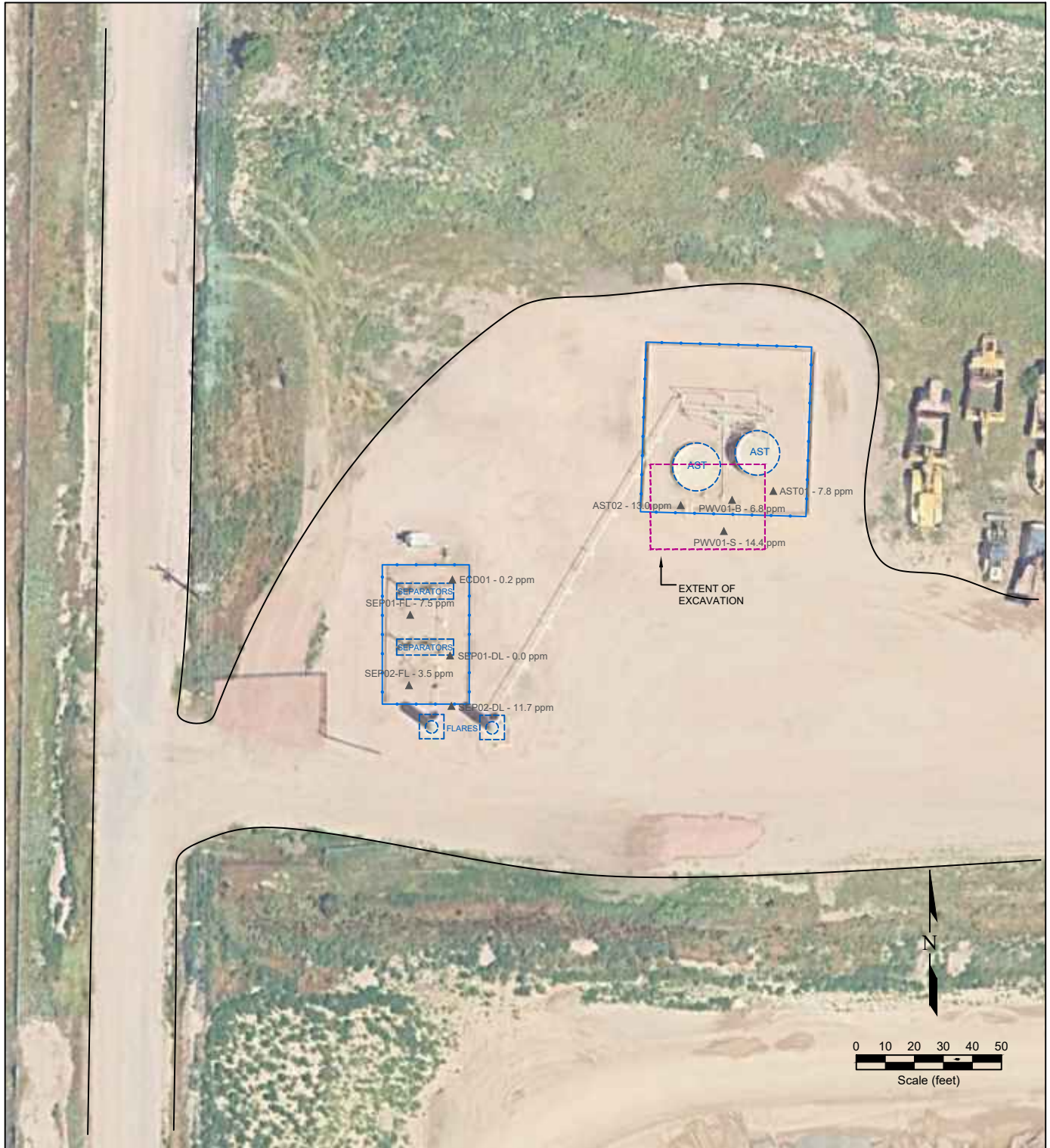
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
NOBLE ENERGY INC ~ DECHANT D 31-42D

SWSE Sec. 31, T3N, R64W, 6th PM
 Weld County, Colorado
 40.176910°, -104.591790°

Project # C023-291	API #	Facility # 329252
Date 5/23/24	Remediation # 21058	Filename 23291T






LEGEND

▲ PID READING LOCATION	▲ AST ABOVE GROUND STORAGE TANK	FORMER FLOWLINE	FORMER FLOWLINE
		EXTENT OF EXCAVATION	EXTENT OF EXCAVATION
		FENCE LINE	FENCE LINE
		CONTAINMENT BERM	CONTAINMENT BERM

Figure 2
SITE MAP

NOBLE ENERGY INC ~ DECHANT D 31-42D

SWSE Sec. 31, T3N, R64W, 6th PM
Weld County, Colorado
40.176910°, -104.591790°

Project No. C023-291	API #	Facility # 329252	
Date 5/23/24	Remediation # 21058	Filename 23291Q	

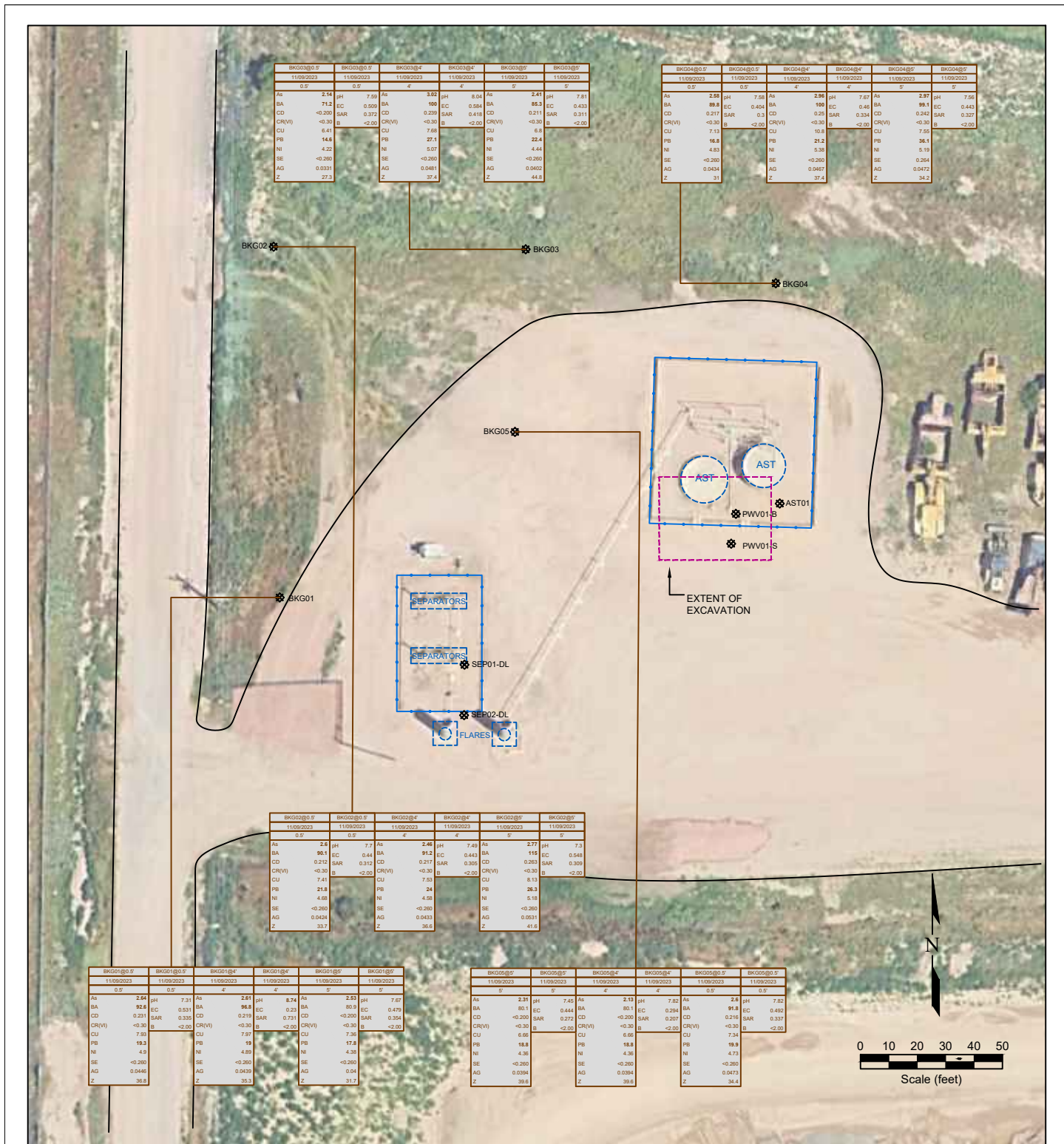


Figure 4
BACKGROUND SAMPLE SOIL CHEMISTRY MAP
NOBLE ENERGY INC ~ DECHANT D 31-42D

SWSE Sec. 31, T3N, R64W, 6th PM
Weld County, Colorado
40.176910°N, -104.591790°W

Project No. C023-291	API #	Facility # 329252	
Date 5/23/24	Remediation # 21058	Filename 23291Q	



Description:

#1 Dechant D31-42D Facility: Meter House



Description:

#2 Dechant D31-42D Facility: PWV01-S



Description:

#3 Dechant D31-42D Facility: AST01

Photo Log



Description:

#4 Dechant D31-42D Facility: PWV01-W



Description:

#5 Dechant D31-42D Facility: PWV01-N



Description:

#6 Dechant D31-42D Facility: SEP01-FL



Description:

#7 Dechant D31-42D Facility: ECD01



Description:

#8 Dechant D31-42D Facility: SEP01-DL



Description:

#9 Dechant D31-42D Facility: PWV01-B



Description:

#10 Dechant D31-42D Facility: PWV01-S

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 27, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Dechant D31-24D Facility

Work Order #2311205

Enclosed are the results of analyses for samples received by Summit Scientific on 11/09/23 16:40. 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 - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-DL@4'	2311205-01	Soil	11/09/23 00:00	11/09/23 16:40
SEP02-DL@4'	2311205-02	Soil	11/09/23 00:00	11/09/23 16:40
PWV01-B@5'	2311205-03	Soil	11/09/23 00:00	11/09/23 16:40
PWV01-S@4'	2311205-04	Soil	11/09/23 00:00	11/09/23 16:40
AST01@0.5'	2311205-05	Soil	11/09/23 00:00	11/09/23 16:40
BKG01@0.5'	2311205-06	Soil	11/09/23 00:00	11/09/23 16:40
BKG01@4'	2311205-07	Soil	11/09/23 00:00	11/09/23 16:40
BKG01@5'	2311205-08	Soil	11/09/23 00:00	11/09/23 16:40
BKG02@0.5'	2311205-09	Soil	11/09/23 00:00	11/09/23 16:40
BKG02@4'	2311205-10	Soil	11/09/23 00:00	11/09/23 16:40
BKG02@5'	2311205-11	Soil	11/09/23 00:00	11/09/23 16:40
BKG03@0.5'	2311205-12	Soil	11/09/23 00:00	11/09/23 16:40
BKG03@4'	2311205-13	Soil	11/09/23 00:00	11/09/23 16:40
BKG03@5'	2311205-14	Soil	11/09/23 00:00	11/09/23 16:40
BKG04@0.5'	2311205-15	Soil	11/09/23 00:00	11/09/23 16:40
BKG04@4'	2311205-16	Soil	11/09/23 00:00	11/09/23 16:40
BKG04@5'	2311205-17	Soil	11/09/23 00:00	11/09/23 16:40
BKG05@0.5'	2311205-18	Soil	11/09/23 00:00	11/09/23 16:40
BKG05@4'	2311205-19	Soil	11/09/23 00:00	11/09/23 16:40
BKG05@5'	2311205-20	Soil	11/09/23 00:00	11/09/23 16:40

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 2
2311205.1	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental	Project Manager: Paul Henehan		Company: Noble/Chevron
Address: 8305 6th Street	E-Mail: Fremont Distribution List		Project Name/Location: West of Dechant Dechant D31-240 Facility
City/State/Zip: Wellington, CO, 80549			AFE#: 060206-A1987-ABN
Phone: 603-477-6907	Project Name: Dechant D31-240 Facility		PO/Billing Codes:
Sampler Name: Aaron Otillar	Project Number:		Contact: Mike Montoya

					Preservative				Matrix				Analysis Requested							Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)	SAR, EC, pH, Boron	TDS, Cl, SO4		
1	SEP01-DLe4'	11/9/23		2			X			X			X	X	X	X	X	X			
2	SEP02-DLe4'																				
3	PWV01-BE5'																				
4	PWV01-SE4'																				
5	AST01EO.5'			1																	
6	BK601EO.5'			1													X	X			
7	BK601E4'																				
8	BK601E5'																				
9	BK602EO.5'																				
10	BK602E4'																				
11	BK602E5'																				
12	BK603EO.5'																				
13	BK603E4'																				
14	BK603E5'																				
15	BK604EO.5'																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
<i>Aaron Otillar</i>	11/9/23 1640	Summit North Office	11/9/23 1640	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
52	11/9/23 1640	<i>DR</i>	11/9/23 1640	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 9.9	Corrected Temperature: <i>9</i>	IR gun #: 1	HNO3 lot #:			

SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2311205.2	

Client: Fremont Environmental				Send Data To:				Send Invoice To:												
Address: 8305 6th Street				Project Manager: Paul Henehan				Company: Noble/Chevron												
City/State/Zip: Wellington, CO, 80549				E-Mail: Fremont Distribution List				Project Name/Location: Dechant D31-240 Facility												
Phone: 603-477-6907				Project Name: Dechant D31-240 Facility				AFE#: UW2WG-A1987-A13N												
Sampler Name: Aaron Otilar				Project Number:				PO/Billing Codes:												
Contact: Mike Montoya																				
				Preservative				Matrix				Analysis Requested				Special Instructions				
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 915	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (915-1)	TDS, Cl, SO4	TMB's - 915	
1	BK604@4'	11/9/23		1			X			X							X	X		
2	BK604@5'	I		I						I							I	I		
3	BK605@0.5'																			
4	BK605@4'																			
5	BK605@5'	I		I						I							I	I		
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
<i>[Signature]</i>	11/9/23 1640	Summit North Office	11/9/23 1640	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
SL	11/9/23 1640	<i>[Signature]</i>	11/9/23 1640	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 9.9		Corrected Temperature 8		IR gun #: 1		HNO3 lot #:

S₂

Sample Receipt Checklist

S2 Work Order# 2311205Client: FremontClient Project ID: Dedant D31-240 FacilityShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐Temp (°C) 9.9

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature $< 6^{\circ}\text{C}$? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on 70E
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe^{2+}), Hexavalent Chromium (Cr^{6+} , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	no time stamps
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input 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_2SO_4 , NaOH, HNO_3 , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Custodian Printed Name

Date/Time

AS

11/9/23



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

SEP01-DL@4'
2311205-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0409	11/10/23	11/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0406	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0453	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0449	112 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0410	11/10/23	11/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.74	78.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

SEP01-DL@4'
2311205-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0425	11/13/23	11/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00507	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

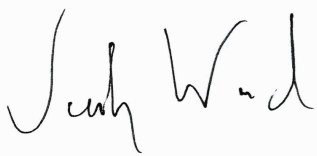
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 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 - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

SEP01-DL@4'
2311205-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.97	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B
Barium	62.6	0.400	"	"	"	"	"	"
Cadmium	0.217	0.200	"	"	"	"	"	"
Copper	6.30	0.400	"	"	"	"	"	"
Lead	7.16	0.200	"	"	"	"	"	"
Nickel	5.03	0.400	"	"	"	"	"	"
Silver	0.0321	0.0200	"	"	"	"	"	"
Zinc	28.1	0.400	"	"	"	"	"	"
Selenium	0.333	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/09/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: 11/09/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.4	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	24.4	0.0500	"	"	"	"	"	"	
Sodium	37.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/09/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.04	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/09/23 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 - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

SEP01-DL@4'
2311205-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.0	%	1	BGK0593	11/16/23	11/16/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.12	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

SEP02-DL@4'
2311205-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0409	11/10/23	11/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/09/23 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	0.0465	116 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0441	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0410	11/10/23	11/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	84.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

SEP02-DL@4'
2311205-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0425	11/13/23	11/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 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 - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

SEP02-DL@4'
2311205-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.11	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B
Barium	40.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.96	0.400	"	"	"	"	"	"
Lead	4.15	0.200	"	"	"	"	"	"
Nickel	4.06	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	14.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	64.0	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	13.8	0.0500	"	"	"	"	"	"	
Sodium	7.29	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.216	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

SEP02-DL@4'
2311205-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.8		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.649	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

PWV01-B@5'
2311205-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0409	11/10/23	11/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0452	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0443	111 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0410	11/10/23	11/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.30	66.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

PWV01-B@5'
2311205-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0425	11/13/23	11/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

PWV01-B@5'
2311205-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.827	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B
Barium	6.64	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.71	0.400	"	"	"	"	"	"
Lead	1.10	0.200	"	"	"	"	"	"
Nickel	1.33	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.79	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.4	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	10.5	0.0500	"	"	"	"	"	"	
Sodium	0.992	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0360	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

PWV01-B@5'
2311205-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.5		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0790	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.27		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

PWV01-S@4'
2311205-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0409	11/10/23	11/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0411	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0454	114 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0453	113 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0410	11/10/23	11/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.3	98.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

PWV01-S@4'
2311205-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0425	11/13/23	11/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0218	65.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0241	72.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

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

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

PWV01-S@4'
2311205-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.729	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B
Barium	7.03	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.65	0.400	"	"	"	"	"	"
Lead	1.14	0.200	"	"	"	"	"	"
Nickel	1.38	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.15	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.3	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	3.26	0.0500	"	"	"	"	"	"	
Sodium	0.652	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0330	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

PWV01-S@4'
2311205-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0125	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.49		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

AST01@0.5'
2311205-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0409	11/10/23	11/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0453	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0441	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0410	11/10/23	11/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.45	67.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

AST01@0.5'
2311205-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0425	11/13/23	11/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	55.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 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 - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

AST01@0.5'
2311205-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.89	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B
Barium	40.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.34	0.400	"	"	"	"	"	"
Lead	2.84	0.200	"	"	"	"	"	"
Nickel	3.00	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.0	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	10.3	0.0500	"	"	"	"	"	"	
Sodium	9.26	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.312	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

AST01@0.5'
2311205-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.466	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.47		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG01@0.5'
2311205-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.64	0.200		mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	92.6	0.400		"	"	"	"	"	"	
Cadmium	0.231	0.200		"	"	"	"	"	"	
Copper	7.93	0.400		"	"	"	"	"	"	
Lead	19.3	0.200		"	"	"	"	"	"	
Nickel	4.90	0.400		"	"	"	"	"	"	
Silver	0.0446	0.0200		"	"	"	"	"	"	
Zinc	36.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	54.6	0.0500		mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	12.0	0.0500		"	"	"	"	"	"	
Sodium	10.5	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG01@0.5'
2311205-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.335	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.531	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.31		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG01@4'
2311205-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.61	0.200		mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	96.8	0.400		"	"	"	"	"	"	
Cadmium	0.219	0.200		"	"	"	"	"	"	
Copper	7.97	0.400		"	"	"	"	"	"	
Lead	19.0	0.200		"	"	"	"	"	"	
Nickel	4.89	0.400		"	"	"	"	"	"	
Silver	0.0439	0.0200		"	"	"	"	"	"	
Zinc	35.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	36.5	0.0500		mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	5.76	0.0500		"	"	"	"	"	"	
Sodium	18.0	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG01@4'
2311205-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.731	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.230	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.74		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG01@5'
2311205-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.53	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	80.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	7.36	0.400	"	"	"	"	"	"	
Lead	17.8	0.200	"	"	"	"	"	"	
Nickel	4.38	0.400	"	"	"	"	"	"	
Silver	0.0400	0.0200	"	"	"	"	"	"	
Zinc	31.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	52.3	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	10.4	0.0500	"	"	"	"	"	"	
Sodium	10.7	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG01@5'
2311205-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.354	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.479	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG02@0.5'
2311205-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.60	0.200		mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	90.1	0.400		"	"	"	"	"	"	
Cadmium	0.212	0.200		"	"	"	"	"	"	
Copper	7.41	0.400		"	"	"	"	"	"	
Lead	21.8	0.200		"	"	"	"	"	"	
Nickel	4.68	0.400		"	"	"	"	"	"	
Silver	0.0424	0.0200		"	"	"	"	"	"	
Zinc	33.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	47.2	0.0500		mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	9.33	0.0500		"	"	"	"	"	"	
Sodium	8.97	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG02@0.5'
2311205-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.312	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.440	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.70		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG02@4'
2311205-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.46	0.200		mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	91.2	0.400		"	"	"	"	"	"	
Cadmium	0.217	0.200		"	"	"	"	"	"	
Copper	7.53	0.400		"	"	"	"	"	"	
Lead	24.0	0.200		"	"	"	"	"	"	
Nickel	4.58	0.400		"	"	"	"	"	"	
Silver	0.0433	0.0200		"	"	"	"	"	"	
Zinc	36.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	46.8	0.0500		mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	9.33	0.0500		"	"	"	"	"	"	
Sodium	8.74	0.0500		"	"	"	"	"	"	

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 - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG02@4'
2311205-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.305	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.2		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.443	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.49		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG02@5'
2311205-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.77	0.200		mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	115	0.400		"	"	"	"	"	"	
Cadmium	0.263	0.200		"	"	"	"	"	"	
Copper	8.13	0.400		"	"	"	"	"	"	
Lead	26.3	0.200		"	"	"	"	"	"	
Nickel	5.18	0.400		"	"	"	"	"	"	
Silver	0.0531	0.0200		"	"	"	"	"	"	
Zinc	41.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	51.5	0.0500		mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	12.4	0.0500		"	"	"	"	"	"	
Sodium	9.53	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG02@5'
2311205-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.309	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.548	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.30		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG03@0.5'
2311205-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.14	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	71.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.41	0.400	"	"	"	"	"	"	
Lead	14.6	0.200	"	"	"	"	"	"	
Nickel	4.22	0.400	"	"	"	"	"	"	
Silver	0.0331	0.0200	"	"	"	"	"	"	
Zinc	27.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	56.5	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	11.3	0.0500	"	"	"	"	"	"	
Sodium	11.7	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG03@0.5'
2311205-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.372	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.509	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.59		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG03@4'
2311205-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.02	0.200		mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	100	0.400		"	"	"	"	"	"	
Cadmium	0.239	0.200		"	"	"	"	"	"	
Copper	7.68	0.400		"	"	"	"	"	"	
Lead	27.1	0.200		"	"	"	"	"	"	
Nickel	5.07	0.400		"	"	"	"	"	"	
Silver	0.0481	0.0200		"	"	"	"	"	"	
Zinc	37.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	56.7	0.0500		mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	11.5	0.0500		"	"	"	"	"	"	
Sodium	13.2	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG03@4'
2311205-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.418	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.584	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG03@5'
2311205-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.41	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	85.3	0.400	"	"	"	"	"	"	
Cadmium	0.211	0.200	"	"	"	"	"	"	
Copper	6.80	0.400	"	"	"	"	"	"	
Lead	22.4	0.200	"	"	"	"	"	"	
Nickel	4.44	0.400	"	"	"	"	"	"	
Silver	0.0402	0.0200	"	"	"	"	"	"	
Zinc	44.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	47.5	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	9.50	0.0500	"	"	"	"	"	"	
Sodium	8.97	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG03@5'
2311205-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.311	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.5		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.433	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG04@0.5'
2311205-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.58	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	89.8	0.400	"	"	"	"	"	"	
Cadmium	0.217	0.200	"	"	"	"	"	"	
Copper	7.13	0.400	"	"	"	"	"	"	
Lead	16.8	0.200	"	"	"	"	"	"	
Nickel	4.83	0.400	"	"	"	"	"	"	
Silver	0.0434	0.0200	"	"	"	"	"	"	
Zinc	31.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	46.3	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	8.30	0.0500	"	"	"	"	"	"	
Sodium	8.43	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG04@0.5'
2311205-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.300	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.404	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.58		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG04@4'
2311205-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.96	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	100	0.400	"	"	"	"	"	"	
Cadmium	0.250	0.200	"	"	"	"	"	"	
Copper	10.8	0.400	"	"	"	"	"	"	
Lead	21.2	0.200	"	"	"	"	"	"	
Nickel	5.38	0.400	"	"	"	"	"	"	
Silver	0.0467	0.0200	"	"	"	"	"	"	
Zinc	37.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	50.6	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	9.78	0.0500	"	"	"	"	"	"	
Sodium	9.90	0.0500	"	"	"	"	"	"	

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 - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG04@4'
2311205-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.334	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.460	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG04@5'
2311205-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.97	0.200		mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	99.1	0.400		"	"	"	"	"	"	
Cadmium	0.242	0.200		"	"	"	"	"	"	
Copper	7.55	0.400		"	"	"	"	"	"	
Lead	36.1	0.200		"	"	"	"	"	"	
Nickel	5.19	0.400		"	"	"	"	"	"	
Silver	0.0472	0.0200		"	"	"	"	"	"	
Zinc	34.2	0.400		"	"	"	"	"	"	
Selenium	0.264	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	47.8	0.0500		mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	9.50	0.0500		"	"	"	"	"	"	
Sodium	9.45	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG04@5'
2311205-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.327	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.443	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG05@0.5'
2311205-18 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.60	0.200		mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	91.8	0.400		"	"	"	"	"	"	
Cadmium	0.216	0.200		"	"	"	"	"	"	
Copper	7.34	0.400		"	"	"	"	"	"	
Lead	19.9	0.200		"	"	"	"	"	"	
Nickel	4.73	0.400		"	"	"	"	"	"	
Silver	0.0473	0.0200		"	"	"	"	"	"	
Zinc	34.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	53.2	0.0500		mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	10.6	0.0500		"	"	"	"	"	"	
Sodium	10.3	0.0500		"	"	"	"	"	"	

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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG05@0.5'
2311205-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.337	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.492	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG05@4'
2311205-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.9	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	6.37	0.0500	"	"	"	"	"	"	
Sodium	5.33	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.207	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG05@4'
2311205-19 (Soil)

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.294	0.0100		mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.82			pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG05@5'
2311205-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0572	11/15/23	11/17/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.31	0.200	mg/kg dry	1	BGK0746	11/20/23	11/21/23	EPA 6020B	
Barium	80.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.66	0.400	"	"	"	"	"	"	
Lead	18.8	0.200	"	"	"	"	"	"	
Nickel	4.36	0.400	"	"	"	"	"	"	
Silver	0.0394	0.0200	"	"	"	"	"	"	
Zinc	39.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0553	11/15/23	11/16/23	EPA 7196A	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	49.1	0.0500	mg/L dry	1	BGK0610	11/16/23	11/18/23	EPA 6020B	
Magnesium	9.78	0.0500	"	"	"	"	"	"	
Sodium	7.97	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

BKG05@5'
2311205-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.272	0.00100	units	1	BGK0705	11/18/23	11/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.5		%	1	BGK0593	11/16/23	11/16/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.444	0.0100	mmhos/cm	1	BGK0644	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.45		pH Units	1	BGK0643	11/17/23	11/19/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGK0409 - EPA 5030 Soil MS

Blank (BGK0409-BLK1)

Prepared: 11/10/23 Analyzed: 11/11/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0442		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0440		"	0.0400		110	50-150			

LCS (BGK0409-BS1)

Prepared: 11/10/23 Analyzed: 11/11/23

Benzene	0.145	0.0020	mg/kg	0.100		145	70-130			QLCS-01
Toluene	0.0849	0.0050	"	0.100		84.9	70-130			
Ethylbenzene	0.0974	0.0050	"	0.100		97.4	70-130			
m,p-Xylene	0.194	0.010	"	0.200		96.8	70-130			
o-Xylene	0.0964	0.0050	"	0.100		96.4	70-130			
1,2,4-Trimethylbenzene	0.0991	0.0050	"	0.100		99.1	70-130			
1,3,5-Trimethylbenzene	0.0983	0.0050	"	0.100		98.3	70-130			
Naphthalene	0.103	0.0038	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0384		"	0.0400		96.1	50-150			
Surrogate: Toluene-d8	0.0444		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0436		"	0.0400		109	50-150			

Matrix Spike (BGK0409-MS1)

Source: 2311194-01

Prepared: 11/10/23 Analyzed: 11/11/23

Benzene	0.117	0.0020	mg/kg	0.100	ND	117	70-130			
Toluene	0.113	0.0050	"	0.100	ND	113	70-130			
Ethylbenzene	0.0712	0.0050	"	0.100	ND	71.2	70-130			
m,p-Xylene	0.168	0.010	"	0.200	ND	84.0	70-130			
o-Xylene	0.0720	0.0050	"	0.100	ND	72.0	70-130			
1,2,4-Trimethylbenzene	0.0932	0.0050	"	0.100	ND	93.2	70-130			
1,3,5-Trimethylbenzene	0.0969	0.0050	"	0.100	ND	96.9	70-130			
Naphthalene	0.0969	0.0038	"	0.100	ND	96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0400		98.5	50-150			
Surrogate: Toluene-d8	0.0450		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0434		"	0.0400		109	50-150			

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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

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

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

Batch BGK0409 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0409-MSD1)	Source: 2311194-01			Prepared: 11/10/23 Analyzed: 11/11/23						
Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130	15.0	30	
Toluene	0.128	0.0050	"	0.100	ND	128	70-130	12.3	30	
Ethylbenzene	0.0825	0.0050	"	0.100	ND	82.5	70-130	14.7	30	
m,p-Xylene	0.159	0.010	"	0.200	ND	79.7	70-130	5.30	30	
o-Xylene	0.0810	0.0050	"	0.100	ND	81.0	70-130	11.7	30	
1,2,4-Trimethylbenzene	0.0740	0.0050	"	0.100	ND	74.0	70-130	22.9	30	
1,3,5-Trimethylbenzene	0.0788	0.0050	"	0.100	ND	78.8	70-130	20.6	30	
Naphthalene	0.0782	0.0038	"	0.100	ND	78.2	70-130	21.3	30	
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400		98.0	50-150			
Surrogate: Toluene-d8	0.0447		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0440		"	0.0400		110	50-150			

Summit Scientific

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Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

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 BGK0410 - EPA 3550A

Blank (BGK0410-BLK1)

Prepared: 11/10/23 Analyzed: 11/11/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.7		"	12.5		93.4	30-150			

LCS (BGK0410-BS1)

Prepared: 11/10/23 Analyzed: 11/11/23

C10-C28 (DRO)	566	50	mg/kg	500		113	70-130			
Surrogate: o-Terphenyl	18.0		"	12.5		144	30-150			

Matrix Spike (BGK0410-MS1)

Source: 2311194-01

Prepared: 11/10/23 Analyzed: 11/11/23

C10-C28 (DRO)	570	50	mg/kg	500	33.4	107	70-130			
Surrogate: o-Terphenyl	11.6		"	12.5		92.9	30-150			


Matrix Spike Dup (BGK0410-MSD1)

Source: 2311194-01

Prepared: 11/10/23 Analyzed: 11/11/23

C10-C28 (DRO)	557	50	mg/kg	500	33.4	105	70-130	2.41	20	
Surrogate: o-Terphenyl	11.7		"	12.5		93.9	30-150			

Summit Scientific



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Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

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 BGK0425 - EPA 5030 Soil MS

Blank (BGK0425-BLK1)

Prepared & Analyzed: 11/13/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0222		"	0.0333		66.5	40-150			
Surrogate: Fluoranthene-d10	0.0290		"	0.0333		87.1	40-150			

LCS (BGK0425-BS1)

Prepared & Analyzed: 11/13/23

Acenaphthene	0.0296	0.00500	mg/kg	0.0333		88.8	31-137			
Anthracene	0.0300	0.00500	"	0.0333		90.1	30-120			
Benzo (a) anthracene	0.0282	0.00500	"	0.0333		84.5	30-120			
Benzo (a) pyrene	0.0282	0.00500	"	0.0333		84.6	30-120			
Benzo (b) fluoranthene	0.0287	0.00500	"	0.0333		86.2	30-120			
Benzo (k) fluoranthene	0.0300	0.00500	"	0.0333		90.1	30-120			
Chrysene	0.0306	0.00500	"	0.0333		91.9	30-120			
Dibenz (a,h) anthracene	0.0248	0.00500	"	0.0333		74.4	30-120			
Fluoranthene	0.0286	0.00500	"	0.0333		85.8	30-120			
Fluorene	0.0300	0.00500	"	0.0333		90.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0241	0.00500	"	0.0333		72.4	30-120			
Pyrene	0.0318	0.00500	"	0.0333		95.4	35-142			
1-Methylnaphthalene	0.0239	0.00500	"	0.0333		71.6	35-142			
2-Methylnaphthalene	0.0358	0.00500	"	0.0333		107	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0268		"	0.0333		80.4	40-150			
Surrogate: Fluoranthene-d10	0.0291		"	0.0333		87.3	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGK0425 - EPA 5030 Soil MS

Matrix Spike (BGK0425-MS1)

Source: 2311144-23

Prepared & Analyzed: 11/13/23

Acenaphthene	0.0194	0.00500	mg/kg	0.0333	ND	58.2	31-137		
Anthracene	0.0204	0.00500	"	0.0333	ND	61.1	30-120		
Benzo (a) anthracene	0.0202	0.00500	"	0.0333	ND	60.6	30-120		
Benzo (a) pyrene	0.0197	0.00500	"	0.0333	ND	59.0	30-120		
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120		
Benzo (k) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120		
Chrysene	0.0203	0.00500	"	0.0333	ND	60.9	30-120		
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	ND	53.9	30-120		
Fluoranthene	0.0193	0.00500	"	0.0333	ND	58.0	30-120		
Fluorene	0.0199	0.00500	"	0.0333	ND	59.8	30-120		
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333	ND	55.6	30-120		
Pyrene	0.0226	0.00500	"	0.0333	ND	67.8	35-142		
1-Methylnaphthalene	0.0144	0.00500	"	0.0333	ND	43.1	15-130		
2-Methylnaphthalene	0.0234	0.00500	"	0.0333	ND	70.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		47.8	40-150		
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.3	40-150		

Matrix Spike Dup (BGK0425-MSD1)

Source: 2311144-23

Prepared & Analyzed: 11/13/23

Acenaphthene	0.0204	0.00500	mg/kg	0.0333	ND	61.1	31-137	4.80	30
Anthracene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	0.229	30
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	ND	62.0	30-120	2.28	30
Benzo (a) pyrene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	3.53	30
Benzo (b) fluoranthene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	3.69	30
Benzo (k) fluoranthene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	1.76	30
Chrysene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	3.21	30
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120	4.83	30
Fluoranthene	0.0199	0.00500	"	0.0333	ND	59.8	30-120	2.95	30
Fluorene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	1.11	30
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333	ND	55.4	30-120	0.488	30
Pyrene	0.0241	0.00500	"	0.0333	ND	72.2	35-142	6.30	30
1-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.2	15-130	7.00	50
2-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	66.1	15-130	5.93	50
Surrogate: 2-Methylnaphthalene-d10	0.0167		"	0.0333		50.2	40-150		
Surrogate: Fluoranthene-d10	0.0208		"	0.0333		62.3	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

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 BGK0572 - EPA 3050B

Blank (BGK0572-BLK1)

Prepared: 11/15/23 Analyzed: 11/17/23

Boron ND 2.00 mg/L

LCS (BGK0572-BS1)

Prepared: 11/15/23 Analyzed: 11/17/23

Boron 4.64 2.00 mg/L 5.00 92.8 80-120

Duplicate (BGK0572-DUP1)

Source: 2311205-01

Prepared: 11/15/23 Analyzed: 11/17/23

Boron 0.527 2.00 mg/L 0.524 0.569 20

Matrix Spike (BGK0572-MS1)

Source: 2311205-01

Prepared: 11/15/23 Analyzed: 11/17/23

Boron 5.47 2.00 mg/L 5.00 0.524 99.0 75-125

Matrix Spike Dup (BGK0572-MSD1)

Source: 2311205-01

Prepared: 11/15/23 Analyzed: 11/17/23

Boron 5.77 2.00 mg/L 5.00 0.524 105 75-125 5.38 25

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Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGK0746 - EPA 3050B

Blank (BGK0746-BLK1)

Prepared & Analyzed: 11/20/23

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

LCS (BGK0746-BS1)

Prepared & Analyzed: 11/20/23

Arsenic	33.4	0.200	mg/kg wet	40.0	83.6	80-120
Barium	35.8	0.400	"	40.0	89.6	80-120
Cadmium	1.86	0.200	"	2.00	93.1	80-120
Copper	41.2	0.400	"	40.0	103	80-120
Lead	18.3	0.200	"	20.0	91.3	80-120
Nickel	39.7	0.400	"	40.0	99.3	80-120
Silver	1.81	0.0200	"	2.00	90.4	80-120
Zinc	39.6	0.400	"	40.0	99.1	80-120
Selenium	4.15	0.260	"	4.00	104	80-120


Duplicate (BGK0746-DUP1)

Source: 2311205-01

Prepared: 11/20/23 Analyzed: 11/21/23

Arsenic	2.36	0.200	mg/kg dry	2.97	23.1	20	QR-04
Barium	57.1	0.400	"	62.6	9.26	20	
Cadmium	0.173	0.200	"	0.217	22.4	20	QR-01
Copper	6.09	0.400	"	6.30	3.35	20	
Lead	7.23	0.200	"	7.16	1.05	20	
Nickel	4.32	0.400	"	5.03	15.2	20	
Silver	0.0270	0.0200	"	0.0321	17.3	20	
Zinc	27.2	0.400	"	28.1	3.37	20	
Selenium	0.266	0.260	"	0.333	22.5	20	QR-01

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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

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 BGK0746 - EPA 3050B

Matrix Spike (BGK0746-MS1)		Source: 2311205-01			Prepared: 11/20/23		Analyzed: 11/21/23			
Arsenic	36.9	0.200	mg/kg dry	46.5	2.97	72.9	75-125			QM-07
Barium	95.7	0.400	"	46.5	62.6	71.2	75-125			QM-07
Cadmium	2.16	0.200	"	2.32	0.217	83.5	75-125			
Copper	36.8	0.400	"	46.5	6.30	65.6	75-125			QM-07
Lead	25.8	0.200	"	23.2	7.16	80.3	75-125			
Nickel	34.0	0.400	"	46.5	5.03	62.3	75-125			QM-07
Silver	1.89	0.0200	"	2.32	0.0321	80.0	75-125			
Zinc	55.3	0.400	"	46.5	28.1	58.4	75-125			QM-07
Selenium	5.71	0.260	"	4.65	0.333	116	75-125			

Matrix Spike Dup (BGK0746-MSD1)		Source: 2311205-01			Prepared: 11/20/23		Analyzed: 11/21/23			
Arsenic	34.8	0.200	mg/kg dry	46.5	2.97	68.5	75-125	5.77	25	QM-07
Barium	87.3	0.400	"	46.5	62.6	53.2	75-125	9.10	25	QM-07
Cadmium	1.93	0.200	"	2.32	0.217	73.6	75-125	11.3	25	QM-07
Copper	35.8	0.400	"	46.5	6.30	63.5	75-125	2.77	25	QM-07
Lead	23.5	0.200	"	23.2	7.16	70.3	75-125	9.45	25	QM-07
Nickel	33.5	0.400	"	46.5	5.03	61.3	75-125	1.35	25	QM-07
Silver	1.71	0.0200	"	2.32	0.0321	72.4	75-125	9.82	25	QM-07
Zinc	54.6	0.400	"	46.5	28.1	56.9	75-125	1.30	25	QM-07

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Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

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 BGK0553 - 3060A Mod

Blank (BGK0553-BLK1)

Prepared: 11/15/23 Analyzed: 11/16/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGK0553-BS1)

Prepared: 11/15/23 Analyzed: 11/16/23

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

Duplicate (BGK0553-DUP1)

Source: 2311205-01

Prepared: 11/15/23 Analyzed: 11/16/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGK0553-MS1)

Source: 2311205-01

Prepared: 11/15/23 Analyzed: 11/16/23

Chromium, Hexavalent 26.1 0.30 mg/kg dry 29.1 ND 90.0 75-125

Matrix Spike Dup (BGK0553-MSD1)

Source: 2311205-01

Prepared: 11/15/23 Analyzed: 11/16/23

Chromium, Hexavalent 26.0 0.30 mg/kg dry 29.1 ND 89.4 75-125 0.669 20

Summit Scientific

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Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

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 BGK0610 - General Preparation

Blank (BGK0610-BLK1)

Prepared: 11/16/23 Analyzed: 11/18/23

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

LCS (BGK0610-BS1)

Prepared: 11/16/23 Analyzed: 11/18/23

Calcium	5.53	0.0500	mg/L wet	5.00	111	70-130
Magnesium	5.11	0.0500	"	5.00	102	70-130
Sodium	5.14	0.0500	"	5.00	103	70-130

Summit Scientific

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Dechant D31-24D Facility Project Number: UWRWE-A1987-ABN Project Manager: Paul Henchan	Reported: 11/27/23 13:51
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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 BGK0593 - General Preparation

Duplicate (BGK0593-DUP1)	Source: 2311187-05			Prepared & Analyzed: 11/16/23						
% Solids	90.9		%		91.0			0.101	20	

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Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

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 BGK0644 - General Preparation

Blank (BGK0644-BLK1)

Prepared: 11/17/23 Analyzed: 11/19/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0644-BS1)

Prepared: 11/17/23 Analyzed: 11/19/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BGK0644-DUP1)

Source: 2311205-01

Prepared: 11/17/23 Analyzed: 11/19/23

Specific Conductance (EC) 1.12 0.0100 mmhos/cm 1.12 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility
Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

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

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

Batch BGK0643 - General Preparation

LCS (BGK0643-BS1)

Prepared: 11/17/23 Analyzed: 11/19/23

pH	9.05	pH Units	9.18	98.6	95-105
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Duplicate (BGK0643-DUP1)

Source: 2311205-01

Prepared: 11/17/23 Analyzed: 11/19/23

pH	8.39	pH Units	8.39	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Dechant D31-24D Facility

Project Number: UWRWE-A1987-ABN
Project Manager: Paul Henchan

Reported:
11/27/23 13:51

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QLCS-01	The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
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