

FREMONT ENVIRONMENTAL INC.

May 25, 2023

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

Subject: **Facility Closure Data Submittal**
20-4N-64W SESE Balboa TB Loc
SESE Sec. 20, T4N, R64W
Weld County, Colorado
Fremont Project No. C023-092
Facility # 481074, Remediation #25550

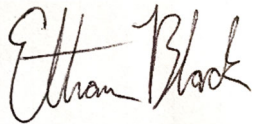
Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Facility Closure activities for the Noble Energy Inc. (Noble) 20-4N-64W SESE Balboa TB Loc. Impacted soil was encountered within the PWV and separator riser excavations during abandonment activities. Details of the 20-4N-64W SESE Balboa TB Loc. facility closure activities are documented in the attached Closure Report. Groundwater was not encountered during facility abandonment activities.

Please contact me at (603) 477-6907 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Ethan D. Black, P.G.
Consultant

Attachments:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Reports

<i>Third Party Removal Date</i>									
<i>Sample taken? Location/ Sample</i>									
<i>PID Readings</i>									
<i>Photo Number(s)</i>									

Other Facility Equipment

<i>Equipment type</i>					
<i>Equipment Condition Age</i>					
<i>Soil impacts</i>					
<i>PID Readings</i>					
<i>Sample taken? Location/ Sample</i>					
<i>Photo Number(s)</i>					

Other observations regarding other facility or third party equipment:

Summary

<i>Was impacted soil identified?</i>	
No	Yes - less than 10 cubic yards
Yes - more than 10 cubic yards	
<i>Total number of samples field screened:</i>	<i>Total number of samples collected:</i>
<i>Highest PID Reading:</i>	<i>Total number of samples submitted to lab for analysis:</i>
<i>If more than 10 cubic yards of impacted soil were observed:</i>	
<i>Vertical extent:</i>	<i>Estimated spill volume:</i>
<i>Lateral extent:</i>	<i>Volume of soil removed:</i>
<i>Is additional investigation required?</i>	
<i>Was groundwater encountered during the investigation?</i>	
No	Yes - not impacted or in contact with impacted soils
Yes - groundwater impacted and/or in contact with impacted soils	
<i>Measured depth to groundwater:</i>	<i>Was remedial groundwater removal conducted? Yes No</i>
<i>Date Groundwater was encountered:</i>	<i>Commencement date of removal:</i>
<i>Sheen on groundwater? Yes No</i>	<i>Volume of groundwater removed prior to sampling:</i>
<i>Free product observed? Yes No</i>	<i>Volume of groundwater removed post sampling:</i>
<i>Total number of samples collected:</i>	<i>Total Volume of groundwater removed:</i>
<i>Total number of samples submitted to lab for analysis:</i>	

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 Jumps Lines									
PID Readings									
Sample taken? Location/Sample ID#									
Photo Number(s)									
Other observations regarding partially buried vessels:									
Summary									
Was impacted soil identified?									
No			Yes - less than 10 cubic yards			Yes - more than 10 cubic yards			
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?									
No			Yes - not impacted or in contact with impacted soils			Yes - groundwater impacted and/or in contact with impacted soils			
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 ENERGY INC.
20-4N-64W SESE BALBOA HANSCOME TB LOC, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-091

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
AST E Cen Surf	03/22/2023	Surface	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST Mid Cen Surf	03/22/2023	Surface	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST W Cen Surf	03/22/2023	Surface	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
DL Trench E 2 Ft	03/22/2023	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
DL Trench W 2 Ft	03/22/2023	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV Cen Floor 2 Ft	03/22/2023	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWV E Floor 2 Ft	03/22/2023	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
Sep Riser Mid 2 Ft	03/22/2023	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
20-4N-64W SESE BALBOA HANSCOME TB LOC, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-091

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
AST E Cen Surf	03/22/2023	Surface	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST Mid Cen Surf	03/22/2023	Surface	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST W Cen Surf	03/22/2023	Surface	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
DL Trench E 2 Ft	03/22/2023	2	<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
DL Trench W 2 Ft	03/22/2023	2	<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
PWV Cen Floor 2 Ft	03/22/2023	2	0.00797	0.0077	0.012	<0.00500	0.00808	<0.00500	0.00928	<0.00500	0.0219	0.00785	<0.00500	0.0198	<0.00500	<0.00500
PWV E Floor 2 Ft	03/22/2023	2	<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
Sep Riser Mid 2 Ft	03/22/2023	2	0.0444	0.101	0.0818	0.0549	0.0736	0.0306	0.0866	<0.00500	0.183	0.0731	0.0442	0.143	<0.00500	0.0127

Bold faced values exceed the COGCC Table 915-1 concentrations

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

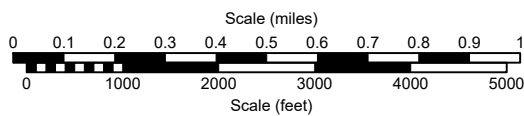
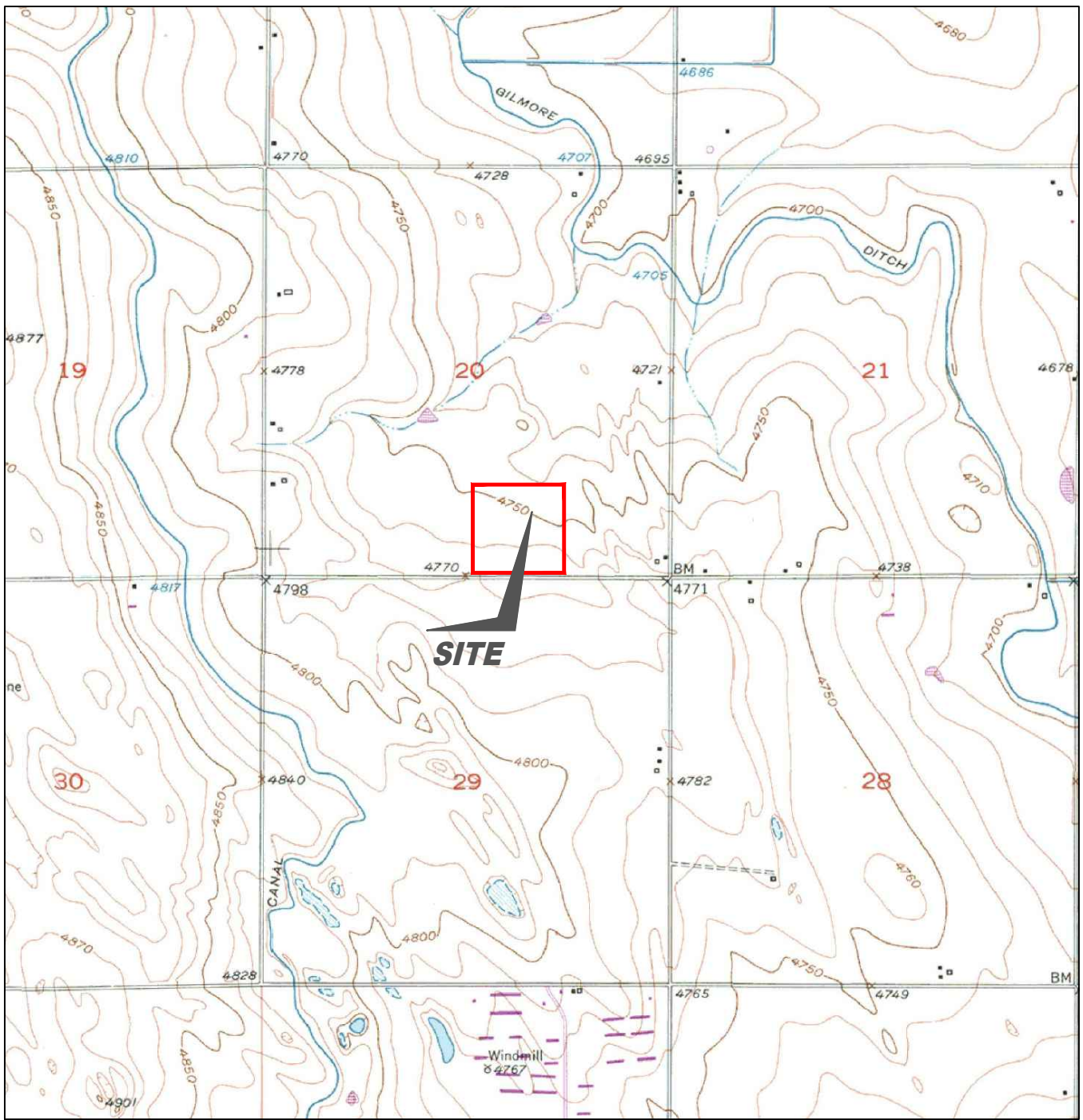
* Indicates laboratory minimum detection limit in excess of SSL

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
20-4N-64W SESE BALBOA HANSCOME TB LOC, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-091

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BKG 2 2 Ft	03/22/2023	2	6.08	0.25	0.111	0.21
BKG 3 2 Ft	03/22/2023	2	7.93	0.282	0.177	0.213
BKG 5 2 Ft	03/22/2023	2	7.68	0.537	0.792	0.143
AST E Cen Surf	03/22/2023	Surface	7.83	0.225	0.113	0.0812
AST Mid Cen Surf	03/22/2023	Surface	7.98	0.194	0.131	0.125
AST W Cen Surf	03/22/2023	Surface	7.93	0.213	0.118	0.106
DL Trench E 2 Ft	03/22/2023	2	7.57	0.578	0.681	0.125
DL Trench W 2 Ft	03/22/2023	2	7.48	0.547	0.369	0.124
PWV Cen Floor 2 Ft	03/22/2023	2	7.87	0.444	0.696	0.13
PWV E Floor 2 Ft	03/22/2023	2	7.83	0.351	0.739	0.218
Sep Riser Mid 2 Ft	03/22/2023	2	7.67	0.186	0.235	0.0571

Bold faced values exceed the COGCC Table 915-1 concentrations

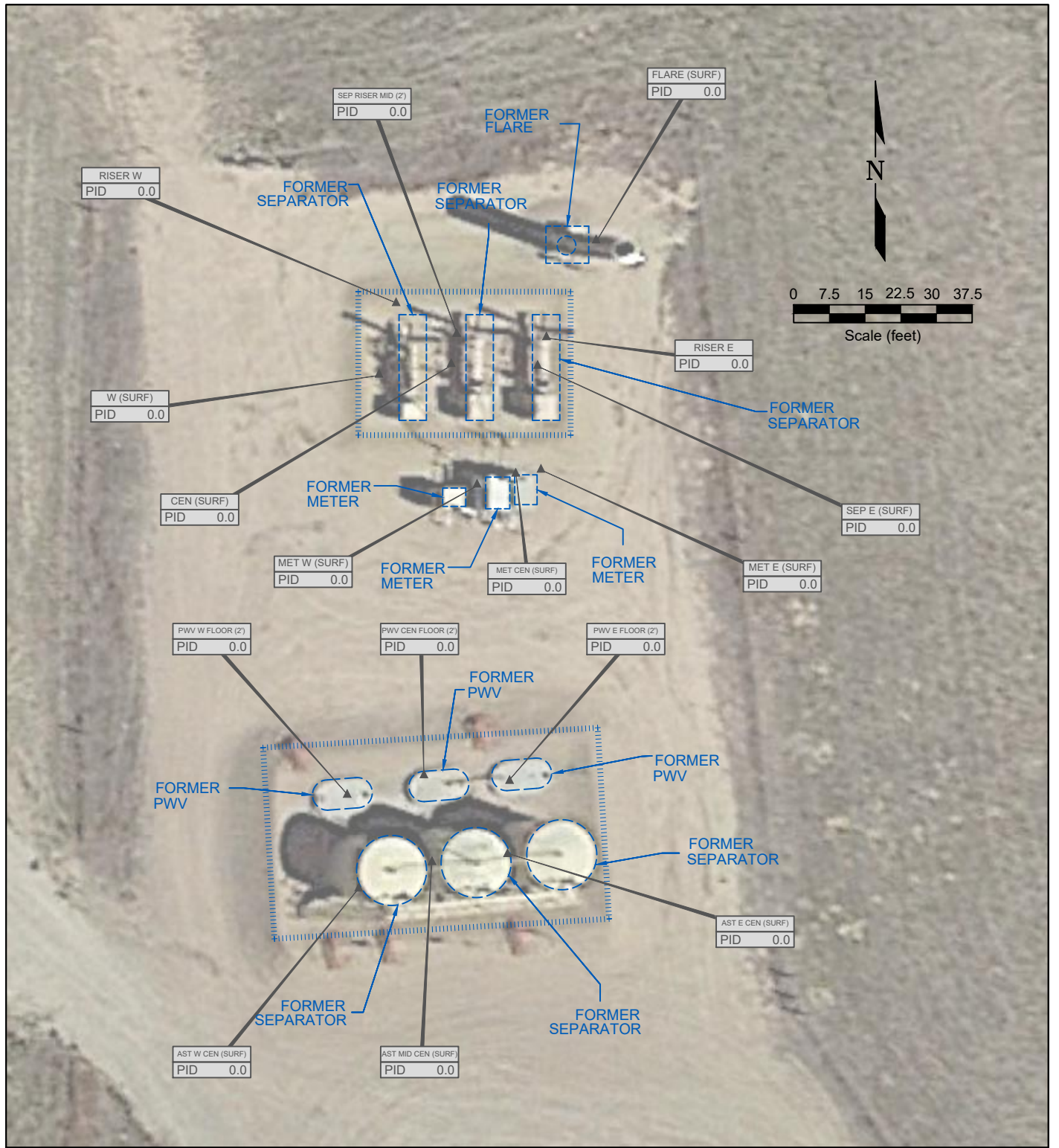
Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
NOBLE ENERGY, INC.
20-4N-64W SESE BALBOA HANSCOME TB LOC
 SESE Sec. 20, T4N, R64W, 6th PM
 Weld County, Colorado
 40.291220°, -104.567100°

Project # CO23-091	API #	Facility # 481074	
Date 09/19/2023	Remediation # 25550	Filename 23091T	



LEGEND

- WELLHEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- FLOW LINE
- CONTAINMENT BERM
- FENCE LINE

FL01 PID READING LOCATION IDENTIFICATION
 PID 0.1 PHOTO IONIZATION DETECTION (ppm)

Figure 2

SITE MAP

NOBLE ENERGY, INC.

20-4N-64W SESE BALBOA HANSCOME TB LOC

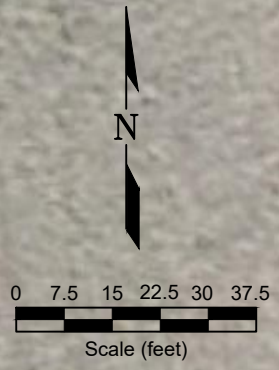
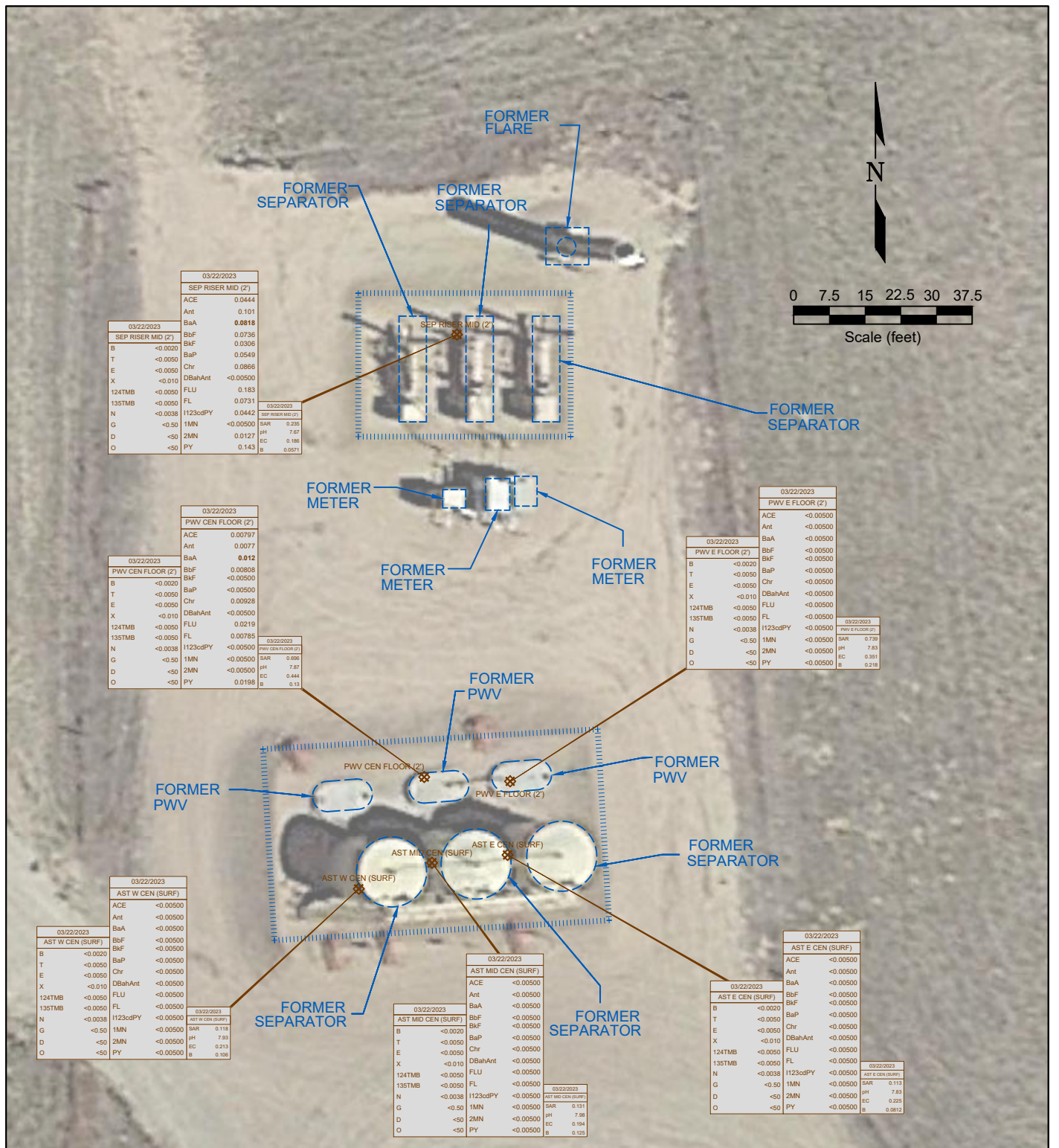
SESE Sec. 20, T4N, R64W, 6th PM

Weld County, Colorado

40.291220°, -104.567100°

Project # CO23-091	API #	Facility # 481074
Date 09/19/2023	Remediation # 25550	Filename 23091Q





LEGEND

- WELLHEAD LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FLOW LINE
- CONTAINMENT BERM
- FENCE LINE

4/7/2023	DATE SAMPLED	4/7/2023	DATE SAMPLED	4/7/2023	DATE SAMPLED
FL01 (4')	SAMPLE ID and DEPTH (ft)	FL01 (4')	SAMPLE ID and DEPTH (ft)	FL01 (4')	SAMPLE ID & DEPTH (ft)
ACE	<0.00500	ACE	<0.00500	SAR	0.999
Ant	<0.00500	Ant	<0.00500	pH	6.94
BaA	<0.00500	BaA	<0.00500	EC	0.385
BaF	<0.00500	BaF	<0.00500	B	0.225
BaP	<0.00500	BaP	<0.00500		
Chr	<0.00500	Chr	<0.00500		
DBahAnt	<0.00500	DBahAnt	<0.00500		
FLU	<0.00500	FLU	<0.00500		
FL	<0.00500	FL	<0.00500		
1123cdPY	<0.00500	1123cdPY	<0.00500		
1MN	<0.00500	1MN	<0.00500		
2MN	<0.00500	2MN	<0.00500		
PY	<0.00500	PY	<0.00500		

Figure 3
SOIL CHEMISTRY MAP
NOBLE ENERGY, INC.
20-4N-64W SESE BALBOA HANSCOME TB LOC
 SESE Sec. 20, T4N, R64W, 6th PM
 Weld County, Colorado
 40.291220°, -104.567100°

Project # CO23-091	API #	Facility # 481074	
Date 09/19/2023	Remediation # 25550	Filename 23091Q	

Photo Log



Description:

3 - 20-4N-64W SESE Balboa Hanscome TB Loc 'Sep. Riser Mid. 2 Ft'; looking east

Photo Log



Description:

4 - 20-4N-64W SESE Balboa Hanscome TB Loc 'PWV Cen. Floor 2 Ft' excavation

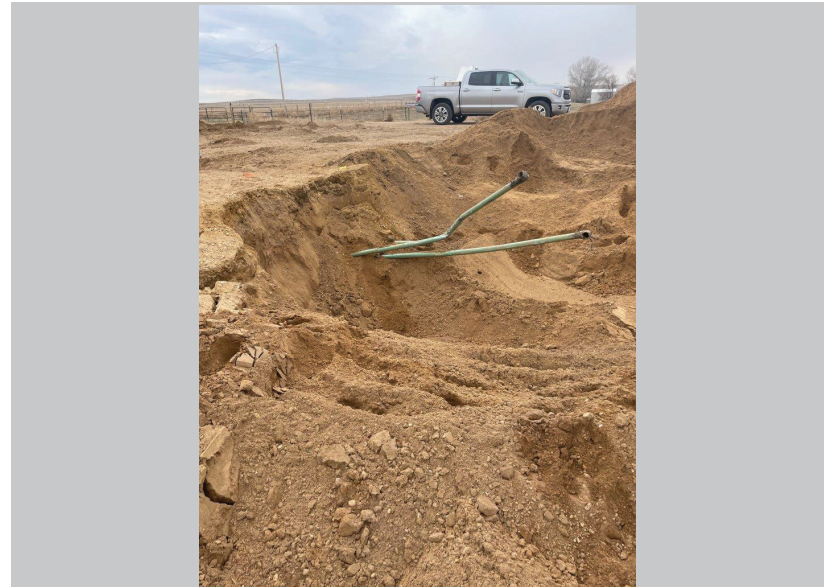
Photo Log



Description:

3 - 20-4N-64W SESE Balboa Hanscome TB Loc 'Sep. Riser Mid. 2 Ft'; looking east

Photo Log



Description:

4 - 20-4N-64W SESE Balboa Hanscome TB Loc 'PWV Cen. Floor 2 Ft' excavation

Photo Log



Description:

5 - 20-4N-64W SESE Balboa Hanscome TB Loc meter skids

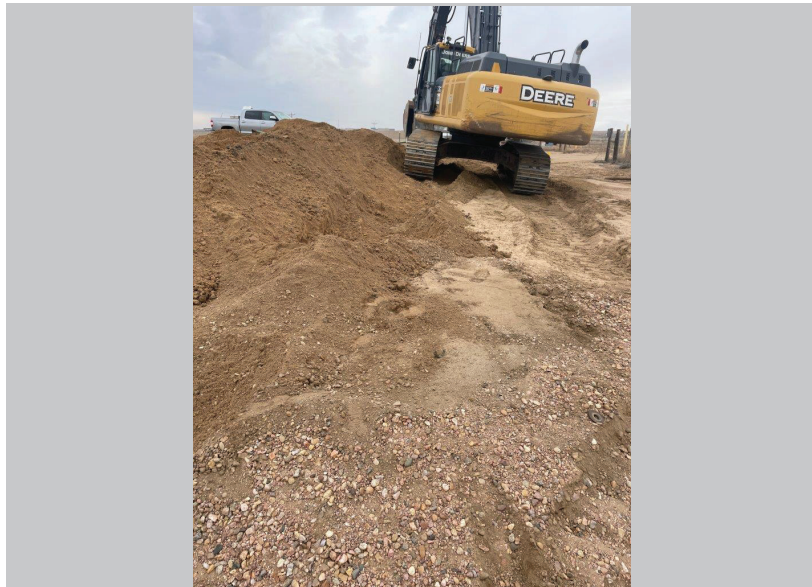
Photo Log



Description:

6 - 20-4N-64W SESE Balboa Hanscome TB Loc 'AST W Cen Surf.' excavation

Photo Log



Description:

7 - 20-4N-64W SESE Balboa Hanscome TB Loc 'AST Mid Cen Surf.' excavation

Photo Log



Description:

8 - 20-4N-64W SESE Balboa Hanscome TB Loc 'AST E Cen Surf.' excavation

Photo Log



Description:

9 - 20-4N-64W SESE Balboa Hanscome TB Loc 'PWV E Floor 2 Ft' excavation

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 18, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Hanscome Balboa Tank Battery

Work Order #2303771

Enclosed are the results of analyses for samples received by Summit Scientific on 03/31/23 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST E Cen Surf	2303771-01	Soil	03/22/23 00:00	03/31/23 16:45
AST Mid Cen Surf	2303771-02	Soil	03/22/23 00:00	03/31/23 16:45
AST W Cen Surf	2303771-03	Soil	03/22/23 00:00	03/31/23 16:45
PWV E Floor 2 Ft	2303771-04	Soil	03/22/23 00:00	03/31/23 16:45
PWV Cen Floor 2 Ft	2303771-05	Soil	03/22/23 00:00	03/31/23 16:45
PWV E Floor 2 Ft	2303771-06	Soil	03/22/23 00:00	03/31/23 16:45
DL Trench E 2 Ft	2303771-07	Soil	03/22/23 00:00	03/31/23 16:45
DL Trench W 2 Ft	2303771-08	Soil	03/22/23 00:00	03/31/23 16:45
BKG 2 2 Ft	2303771-09	Soil	03/22/23 00:00	03/31/23 16:45
BKG 3 2 Ft	2303771-10	Soil	03/22/23 00:00	03/31/23 16:45
Sep Riser Mid 2 Ft	2303771-11	Soil	03/22/23 00:00	03/31/23 16:45
BKG 5 2 Ft	2303771-12	Soil	03/22/23 00:00	03/31/23 16:45

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

2303771

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to: Dcn

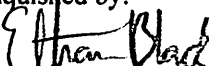

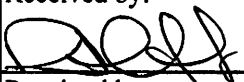
Phone:

Project Name: Noble - Hanscome Balboa Tank Battery

Sampler Name: EB

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron	Metals (915)		TDS, Chloride, Sulfate	HOLD
1	AST E CEN SURF	3/22/23		2			X			X			X	X	X					
2	AST MID CEN SURF																			
3	AST W CEN SURF																			
4	PWV E FLOOR 2FT																			
5	PWV CEN FLOOR 2FT																			
6	PWV E FLOOR 2FT																			
7	DL TRENCH E 2FT																			
8	DL TRENCH W 2FT																			
9	BKG 2 2FT																			
10	BKG 3 2FT																			

Relinquished by: 	Date/Time: 3/31/23 1350	Received by: 	Date/Time: 3/31/23 1350	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: 10.1 Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by: S2	Date/Time: 3/31/23 1645	Received by: 	Date/Time: 3/31/23 1645		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 230371

Client: Fremont Client Project ID: Noble - Hanscome Balboa Tank Battery
Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

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

Temp (°C) 10.1 Thermometer # 1

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

Additional Comments (if any):

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

AS
Custodian Printed Name
3/23/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

AST E Cen Surf
2303771-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0061	04/03/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0062	04/03/23	04/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.7	118 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

AST E Cen Surf
2303771-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0080	04/04/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0245	73.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0246	73.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0812	0.0100	mg/L	1	BGD0097	04/04/23	04/08/23	EPA 6020B	

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

Date Sampled: **03/22/23 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 - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

AST E Cen Surf
2303771-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.4	0.0521	mg/L dry	1	BGD0099	04/04/23	04/08/23	EPA 6020B	
Magnesium	6.96	0.0521	"	"	"	"	"	"	
Sodium	2.49	0.0521	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.113	0.00100	units	1	BGD0250	04/08/23	04/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BGD0093	04/04/23	04/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.225	0.0100	mmhos/cm	1	BGD0121	04/05/23	04/05/23	EPA 120.1	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BGD0120	04/05/23	04/05/23	EPA 9045D	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

AST Mid Cen Surf
2303771-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0061	04/03/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0402	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0062	04/03/23	04/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.0	112 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

AST Mid Cen Surf
2303771-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0080	04/04/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0209	62.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.125	0.0100	mg/L	1	BGD0097	04/04/23	04/08/23	EPA 6020B	

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

Date Sampled: **03/22/23 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 - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

AST Mid Cen Surf
2303771-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.4	0.0511	mg/L dry	1	BGD0099	04/04/23	04/08/23	EPA 6020B	
Magnesium	8.79	0.0511	"	"	"	"	"	"	
Sodium	2.93	0.0511	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.131	0.00100	units	1	BGD0250	04/08/23	04/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.9		%	1	BGD0093	04/04/23	04/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.194	0.0100	mmhos/cm	1	BGD0121	04/05/23	04/05/23	EPA 120.1	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BGD0120	04/05/23	04/05/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

AST W Cen Surf
2303771-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0061	04/03/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0378	94.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0062	04/03/23	04/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.0	112 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

AST W Cen Surf
2303771-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0080	04/04/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0167	50.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.106	0.0100	mg/L	1	BGD0097	04/04/23	04/08/23	EPA 6020B	

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

Date Sampled: **03/22/23 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 - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

AST W Cen Surf
2303771-03 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.2	0.0513	mg/L dry	1	BGD0099	04/04/23	04/08/23	EPA 6020B	
Magnesium	6.38	0.0513	"	"	"	"	"	"	
Sodium	2.41	0.0513	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.118	0.00100	units	1	BGD0250	04/08/23	04/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.5		%	1	BGD0093	04/04/23	04/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.213	0.0100	mmhos/cm	1	BGD0121	04/05/23	04/05/23	EPA 120.1	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BGD0120	04/05/23	04/05/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**PWV E Floor 2 Ft
2303771-04 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0061	04/03/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0373	93.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0062	04/03/23	04/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.4	115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**PWV E Floor 2 Ft
2303771-04 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0080	04/04/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0150	45.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.218	0.0100	mg/L	1	BGD0097	04/04/23	04/08/23	EPA 6020B	

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

Date Sampled: **03/22/23 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 - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

**PWV E Floor 2 Ft
 2303771-04 (Soil)**

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.8	0.0519	mg/L dry	1	BGD0099	04/04/23	04/08/23	EPA 6020B	
Magnesium	6.51	0.0519	"	"	"	"	"	"	
Sodium	14.2	0.0519	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.622	0.00100	units	1	BGD0250	04/08/23	04/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BGD0093	04/04/23	04/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.351	0.0100	mmhos/cm	1	BGD0121	04/05/23	04/05/23	EPA 120.1	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BGD0120	04/05/23	04/05/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**PWV Cen Floor 2 Ft
2303771-05 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0061	04/03/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0377	94.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0062	04/03/23	04/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.8	110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**PWV Cen Floor 2 Ft
2303771-05 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00797	0.00500	mg/kg	1	BGD0080	04/04/23	04/05/23	EPA 8270D SIM	
Anthracene	0.00770	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0120	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00808	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00928	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0219	0.00500	"	"	"	"	"	"	
Fluorene	0.00785	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0198	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0181	54.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.130	0.0100	mg/L	1	BGD0097	04/04/23	04/08/23	EPA 6020B	

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

Date Sampled: **03/22/23 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 - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**PWV Cen Floor 2 Ft
2303771-05 (Soil)**

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.8	0.0530	mg/L dry	1	BGD0099	04/04/23	04/08/23	EPA 6020B	
Magnesium	7.08	0.0530	"	"	"	"	"	"	
Sodium	17.6	0.0530	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.696	0.00100	units	1	BGD0250	04/08/23	04/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BGD0093	04/04/23	04/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.444	0.0100	mmhos/cm	1	BGD0121	04/05/23	04/05/23	EPA 120.1	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BGD0120	04/05/23	04/05/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**PWV E Floor 2 Ft
2303771-06 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0061	04/03/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0359	89.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0062	04/03/23	04/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.9	103 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**PWV E Floor 2 Ft
2303771-06 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0080	04/04/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	63.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0855	0.0100	mg/L	1	BGD0097	04/04/23	04/08/23	EPA 6020B	

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

Date Sampled: **03/22/23 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 - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**PWV E Floor 2 Ft
2303771-06 (Soil)**

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.8	0.0519	mg/L dry	1	BGD0099	04/04/23	04/08/23	EPA 6020B	
Magnesium	9.21	0.0519	"	"	"	"	"	"	
Sodium	17.4	0.0519	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.739	0.00100	units	1	BGD0250	04/08/23	04/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BGD0093	04/04/23	04/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.258	0.0100	mmhos/cm	1	BGD0121	04/05/23	04/05/23	EPA 120.1	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BGD0120	04/05/23	04/05/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

DL Trench E 2 Ft
2303771-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGD0061	04/03/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0358	89.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0062	04/03/23	04/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.92	47.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

DL Trench E 2 Ft
2303771-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0080	04/04/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0204	61.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.125	0.0100	mg/L	1	BGD0097	04/04/23	04/08/23	EPA 6020B	

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

Date Sampled: **03/22/23 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 - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

DL Trench E 2 Ft
2303771-07 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.5	0.0567	mg/L dry	1	BGD0099	04/04/23	04/08/23	EPA 6020B	
Magnesium	9.75	0.0567	"	"	"	"	"	"	
Sodium	21.2	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.681	0.00100	units	1	BGD0250	04/08/23	04/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BGD0093	04/04/23	04/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.578	0.0100	mmhos/cm	1	BGD0121	04/05/23	04/05/23	EPA 120.1	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.57		pH Units	1	BGD0120	04/05/23	04/05/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**DL Trench W 2 Ft
2303771-08 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0061	04/03/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0368	91.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0062	04/03/23	04/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.04	64.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

DL Trench W 2 Ft
2303771-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGD0080	04/04/23	04/05/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0233	69.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0232	69.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.124	0.0100	mg/L	1	BGD0097	04/04/23	04/08/23	EPA 6020B	

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

Date Sampled: **03/22/23 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 - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**DL Trench W 2 Ft
2303771-08 (Soil)**

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.3	0.0521	mg/L dry	1	BGD0099	04/04/23	04/08/23	EPA 6020B	
Magnesium	10.2	0.0521	"	"	"	"	"	"	
Sodium	10.8	0.0521	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.369	0.00100	units	1	BGD0250	04/08/23	04/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BGD0093	04/04/23	04/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.547	0.0100	mmhos/cm	1	BGD0121	04/05/23	04/05/23	EPA 120.1	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.48		pH Units	1	BGD0120	04/05/23	04/05/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

BKG 2 2 Ft
2303771-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.210	0.0100	mg/L	1	BGD0097	04/04/23	04/08/23	EPA 6020B	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.9	0.0524	mg/L dry	1	BGD0099	04/04/23	04/08/23	EPA 6020B	
Magnesium	14.5	0.0524	"	"	"	"	"	"	
Sodium	3.01	0.0524	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.111	0.00100	units	1	BGD0250	04/08/23	04/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.5		%	1	BGD0093	04/04/23	04/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.250	0.0100	mmhos/cm	1	BGD0121	04/05/23	04/05/23	EPA 120.1	

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

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

BKG 2 2 Ft
2303771-09 (Soil)

Summit Scientific

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	6.08		pH Units	1	BGD0120	04/05/23	04/05/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

BKG 3 2 Ft
2303771-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.213	0.0100	mg/L	1	BGD0097	04/04/23	04/08/23	EPA 6020B	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.2	0.0526	mg/L dry	1	BGD0099	04/04/23	04/08/23	EPA 6020B	
Magnesium	9.51	0.0526	"	"	"	"	"	"	
Sodium	4.26	0.0526	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.177	0.00100	units	1	BGD0250	04/08/23	04/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BGD0093	04/04/23	04/06/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.282	0.0100	mmhos/cm	1	BGD0121	04/05/23	04/05/23	EPA 120.1	

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

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

BKG 3 2 Ft
2303771-10 (Soil)

Summit Scientific

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.93		pH Units	1	BGD0120	04/05/23	04/05/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

Sep Riser Mid 2 Ft
2303771-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-04

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGD0170	04/06/23	04/07/23	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: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0372	93.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0411	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0172	04/06/23	04/10/23	EPA 8015M	I-04
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	I-04

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.6	109 %	30-150		"	"	"	"	I-04

PAH by EPA Method 8270D SIM

I-04

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**Sep Riser Mid 2 Ft
2303771-11 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

I-04

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0444	0.00500	mg/kg	1	BGD0152	04/06/23	04/06/23	EPA 8270D SIM	
Anthracene	0.101	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0818	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0549	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0736	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0306	0.00500	"	"	"	"	"	"	
Chrysene	0.0866	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.183	0.00500	"	"	"	"	"	"	
Fluorene	0.0731	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0442	0.00500	"	"	"	"	"	"	
Pyrene	0.143	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0127	0.00500	"	"	"	"	"	"	

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0235	70.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0571	0.0100	mg/L	1	BGD0239	04/08/23	04/12/23	EPA 6020B	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.8	0.0529	mg/L dry	1	BGD0341	04/11/23	04/17/23	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

**Sep Riser Mid 2 Ft
2303771-11 (Soil)**

Summit Scientific

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Magnesium	6.16	0.0529	mg/L dry	1	BGD0341	04/11/23	04/17/23	EPA 6020B	
Sodium	4.97	0.0529	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.235	0.00100	units	1	BGD0548	04/18/23	04/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BGD0200	04/07/23	04/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.186	0.0100	mmhos/cm	1	BGD0371	04/12/23	04/13/23	EPA 120.1	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BGD0372	04/12/23	04/13/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

BKG 5 2 Ft
2303771-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.143	0.0100	mg/L	1	BGD0239	04/08/23	04/12/23	EPA 6020B	

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.2	0.0539	mg/L dry	1	BGD0341	04/11/23	04/17/23	EPA 6020B	
Magnesium	6.77	0.0539	"	"	"	"	"	"	
Sodium	21.6	0.0539	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.792	0.00100	units	1	BGD0548	04/18/23	04/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BGD0200	04/07/23	04/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.537	0.0100	mmhos/cm	1	BGD0371	04/12/23	04/13/23	EPA 120.1	

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

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

BKG 5 2 Ft
2303771-12 (Soil)

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

Date Sampled: **03/22/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.68		pH Units	1	BGD0372	04/12/23	04/13/23	EPA 9045D	

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Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGD0061 - EPA 5030 Soil MS

Blank (BGD0061-BLK1)

Prepared: 04/03/23 Analyzed: 04/04/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0398		"	0.0400		99.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0401		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0410		"	0.0400		103	50-150			

LCS (BGD0061-BS1)

Prepared: 04/03/23 Analyzed: 04/04/23

Benzene	0.0820	0.0020	mg/kg	0.100		82.0	70-130			
Toluene	0.0847	0.0050	"	0.100		84.7	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.194	0.010	"	0.200		96.8	70-130			
o-Xylene	0.0961	0.0050	"	0.100		96.1	70-130			
1,2,4-Trimethylbenzene	0.0975	0.0050	"	0.100		97.5	70-130			
1,3,5-Trimethylbenzene	0.0995	0.0050	"	0.100		99.5	70-130			
Naphthalene	0.0979	0.0038	"	0.100		97.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0324		"	0.0400		80.9	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		97.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0395		"	0.0400		98.8	50-150			

Matrix Spike (BGD0061-MS1)

Source: 2303767-01

Prepared: 04/03/23 Analyzed: 04/04/23

Benzene	0.0823	0.0020	mg/kg	0.100	ND	82.3	70-130			
Toluene	0.0861	0.0050	"	0.100	ND	86.1	70-130			
Ethylbenzene	0.0988	0.0050	"	0.100	ND	98.8	70-130			
m,p-Xylene	0.189	0.010	"	0.200	ND	94.5	70-130			
o-Xylene	0.0963	0.0050	"	0.100	ND	96.3	70-130			
1,2,4-Trimethylbenzene	0.0973	0.0050	"	0.100	ND	97.3	70-130			
1,3,5-Trimethylbenzene	0.0982	0.0050	"	0.100	ND	98.2	70-130			
Naphthalene	0.106	0.0038	"	0.100	ND	106	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0344		"	0.0400		86.1	50-150			
<i>Surrogate: Toluene-d8</i>	0.0399		"	0.0400		99.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0392		"	0.0400		97.9	50-150			

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Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGD0061 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0061-MSD1)

Source: 2303767-01

Prepared: 04/03/23 Analyzed: 04/04/23

Benzene	0.0784	0.0020	mg/kg	0.100	ND	78.4	70-130	4.89	30
Toluene	0.0823	0.0050	"	0.100	ND	82.3	70-130	4.53	30
Ethylbenzene	0.0976	0.0050	"	0.100	ND	97.6	70-130	1.19	30
m,p-Xylene	0.185	0.010	"	0.200	ND	92.3	70-130	2.30	30
o-Xylene	0.0937	0.0050	"	0.100	ND	93.7	70-130	2.72	30
1,2,4-Trimethylbenzene	0.0953	0.0050	"	0.100	ND	95.3	70-130	2.06	30
1,3,5-Trimethylbenzene	0.0964	0.0050	"	0.100	ND	96.4	70-130	1.91	30
Naphthalene	0.104	0.0038	"	0.100	ND	104	70-130	1.34	30
Surrogate: 1,2-Dichloroethane-d4	0.0340		"	0.0400		85.1	50-150		
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150		
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	50-150		

Batch BGD0170 - EPA 5030 Soil MS

Blank (BGD0170-BLK1)

Prepared & Analyzed: 04/06/23

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	0.0397		"	0.0400		99.2	50-150		
Surrogate: Toluene-d8	0.0402		"	0.0400		101	50-150		
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	50-150		

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PO Box 1289
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Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

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

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

Batch BGD0170 - EPA 5030 Soil MS

LCS (BGD0170-BS1)

Prepared & Analyzed: 04/06/23

Benzene	0.0823	0.0020	mg/kg	0.100		82.3	70-130			
Toluene	0.0843	0.0050	"	0.100		84.3	70-130			
Ethylbenzene	0.0995	0.0050	"	0.100		99.5	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.6	70-130			
o-Xylene	0.0948	0.0050	"	0.100		94.8	70-130			
1,2,4-Trimethylbenzene	0.0950	0.0050	"	0.100		95.0	70-130			
1,3,5-Trimethylbenzene	0.0964	0.0050	"	0.100		96.4	70-130			
Naphthalene	0.0922	0.0038	"	0.100		92.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0319</i>		"	<i>0.0400</i>		<i>79.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		"	<i>0.0400</i>		<i>98.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		"	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

Matrix Spike (BGD0170-MS1)

Source: 2304027-01

Prepared & Analyzed: 04/06/23

Benzene	0.0776	0.0020	mg/kg	0.100	ND	77.6	70-130			
Toluene	0.0812	0.0050	"	0.100	ND	81.2	70-130			
Ethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130			
m,p-Xylene	0.186	0.010	"	0.200	ND	92.9	70-130			
o-Xylene	0.0928	0.0050	"	0.100	ND	92.8	70-130			
1,2,4-Trimethylbenzene	0.0931	0.0050	"	0.100	ND	93.1	70-130			
1,3,5-Trimethylbenzene	0.0949	0.0050	"	0.100	ND	94.9	70-130			
Naphthalene	0.0954	0.0038	"	0.100	ND	95.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0320</i>		"	<i>0.0400</i>		<i>80.1</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		"	<i>0.0400</i>		<i>97.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		"	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			

Matrix Spike Dup (BGD0170-MSD1)

Source: 2304027-01

Prepared & Analyzed: 04/06/23

Benzene	0.0809	0.0020	mg/kg	0.100	ND	80.9	70-130	4.09	30	
Toluene	0.0829	0.0050	"	0.100	ND	82.9	70-130	2.12	30	
Ethylbenzene	0.0958	0.0050	"	0.100	ND	95.8	70-130	1.03	30	
m,p-Xylene	0.184	0.010	"	0.200	ND	91.8	70-130	1.23	30	
o-Xylene	0.0926	0.0050	"	0.100	ND	92.6	70-130	0.194	30	
1,2,4-Trimethylbenzene	0.0920	0.0050	"	0.100	ND	92.0	70-130	1.17	30	
1,3,5-Trimethylbenzene	0.0932	0.0050	"	0.100	ND	93.2	70-130	1.79	30	
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130	9.49	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0343</i>		"	<i>0.0400</i>		<i>85.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		"	<i>0.0400</i>		<i>98.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		"	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGD0062 - EPA 3550A

Blank (BGD0062-BLK1)

Prepared: 04/03/23 Analyzed: 04/05/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.2		"	12.5		114		30-150			

LCS (BGD0062-BS1)

Prepared: 04/03/23 Analyzed: 04/05/23

C10-C28 (DRO)	505	50	mg/kg	500		101		70-130			
Surrogate: <i>o</i> -Terphenyl	14.3		"	12.5		115		30-150			

Matrix Spike (BGD0062-MS1)

Source: 2303767-01

Prepared: 04/03/23 Analyzed: 04/05/23

C10-C28 (DRO)	507	50	mg/kg	500	34.0	94.6		70-130			
Surrogate: <i>o</i> -Terphenyl	14.3		"	12.5		115		30-150			

Matrix Spike Dup (BGD0062-MSD1)

Source: 2303767-01

Prepared: 04/03/23 Analyzed: 04/05/23

C10-C28 (DRO)	516	50	mg/kg	500	34.0	96.5		70-130	1.85	20	
Surrogate: <i>o</i> -Terphenyl	13.8		"	12.5		110		30-150			

Batch BGD0172 - EPA 3550A

Blank (BGD0172-BLK1)

Prepared: 04/06/23 Analyzed: 04/09/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		105		30-150			

LCS (BGD0172-BS1)

Prepared: 04/06/23 Analyzed: 04/09/23

C10-C28 (DRO)	543	50	mg/kg	500		109		70-130			
Surrogate: <i>o</i> -Terphenyl	13.7		"	12.5		110		30-150			

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 Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGD0172 - EPA 3550A

Matrix Spike (BGD0172-MS1)

Source: 2304027-01

Prepared: 04/06/23 Analyzed: 04/10/23

C10-C28 (DRO)	498	50	mg/kg	500	17.9	95.9	70-130			
Surrogate: o-Terphenyl	14.4		"	12.5		115	30-150			

Matrix Spike Dup (BGD0172-MSD1)

Source: 2304027-01

Prepared: 04/06/23 Analyzed: 04/10/23

C10-C28 (DRO)	452	50	mg/kg	500	17.9	86.8	70-130	9.60	20	
Surrogate: o-Terphenyl	13.0		"	12.5		104	30-150			

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Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0080 - EPA 5030 Soil MS

Blank (BGD0080-BLK1)

Prepared: 04/04/23 Analyzed: 04/05/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0269</i>		"	<i>0.0333</i>		<i>80.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0344</i>		"	<i>0.0333</i>		<i>103</i>	<i>40-150</i>			

LCS (BGD0080-BS1)

Prepared: 04/04/23 Analyzed: 04/05/23

Acenaphthene	0.0308	0.00500	mg/kg	0.0333	92.3	31-137
Anthracene	0.0304	0.00500	"	0.0333	91.2	30-120
Benzo (a) anthracene	0.0324	0.00500	"	0.0333	97.2	30-120
Benzo (a) pyrene	0.0273	0.00500	"	0.0333	81.8	30-120
Benzo (b) fluoranthene	0.0267	0.00500	"	0.0333	80.1	30-120
Benzo (k) fluoranthene	0.0268	0.00500	"	0.0333	80.4	30-120
Chrysene	0.0256	0.00500	"	0.0333	76.8	30-120
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333	74.1	30-120
Fluoranthene	0.0298	0.00500	"	0.0333	89.3	30-120
Fluorene	0.0304	0.00500	"	0.0333	91.2	30-120
Indeno (1,2,3-cd) pyrene	0.0260	0.00500	"	0.0333	78.0	30-120
Pyrene	0.0287	0.00500	"	0.0333	86.1	35-142
1-Methylnaphthalene	0.0325	0.00500	"	0.0333	97.4	35-142
2-Methylnaphthalene	0.0319	0.00500	"	0.0333	95.8	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0312</i>		"	<i>0.0333</i>	<i>93.5</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0328</i>		"	<i>0.0333</i>	<i>98.5</i>	<i>40-150</i>

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PO Box 1289
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Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0080 - EPA 5030 Soil MS

Matrix Spike (BGD0080-MS1)	Source: 2303762-01			Prepared: 04/04/23 Analyzed: 04/05/23						
Acenaphthene	0.0196	0.00500	mg/kg	0.0333	ND	58.7	31-137			
Anthracene	0.0188	0.00500	"	0.0333	ND	56.4	30-120			
Benzo (a) anthracene	0.0196	0.00500	"	0.0333	ND	58.9	30-120			
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.6	30-120			
Benzo (b) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.4	30-120			
Benzo (k) fluoranthene	0.0159	0.00500	"	0.0333	ND	47.6	30-120			
Chrysene	0.0155	0.00500	"	0.0333	ND	46.6	30-120			
Dibenz (a,h) anthracene	0.0163	0.00500	"	0.0333	ND	48.8	30-120			
Fluoranthene	0.0184	0.00500	"	0.0333	ND	55.2	30-120			
Fluorene	0.0190	0.00500	"	0.0333	ND	57.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.4	30-120			
Pyrene	0.0171	0.00500	"	0.0333	ND	51.3	35-142			
1-Methylnaphthalene	0.0221	0.00500	"	0.0333	ND	66.3	15-130			
2-Methylnaphthalene	0.0181	0.00500	"	0.0333	ND	54.2	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0236</i>		<i>"</i>	<i>0.0333</i>		<i>70.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0201</i>		<i>"</i>	<i>0.0333</i>		<i>60.2</i>	<i>40-150</i>			

Matrix Spike Dup (BGD0080-MSD1)	Source: 2303762-01			Prepared: 04/04/23 Analyzed: 04/05/23						
Acenaphthene	0.0206	0.00500	mg/kg	0.0333	ND	61.8	31-137	5.17	30	
Anthracene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	12.5	30	
Benzo (a) anthracene	0.0215	0.00500	"	0.0333	ND	64.4	30-120	8.94	30	
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	8.48	30	
Benzo (b) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	11.1	30	
Benzo (k) fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	7.52	30	
Chrysene	0.0165	0.00500	"	0.0333	ND	49.5	30-120	5.92	30	
Dibenz (a,h) anthracene	0.0169	0.00500	"	0.0333	ND	50.7	30-120	3.83	30	
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	12.9	30	
Fluorene	0.0201	0.00500	"	0.0333	ND	60.4	30-120	5.85	30	
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	11.2	30	
Pyrene	0.0185	0.00500	"	0.0333	ND	55.4	35-142	7.66	30	
1-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.5	15-130	7.49	50	
2-Methylnaphthalene	0.0155	0.00500	"	0.0333	ND	46.5	15-130	15.4	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0216</i>		<i>"</i>	<i>0.0333</i>		<i>64.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0227</i>		<i>"</i>	<i>0.0333</i>		<i>68.2</i>	<i>40-150</i>			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0152 - EPA 5030 Soil MS

Blank (BGD0152-BLK1)

Prepared & Analyzed: 04/06/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0397</i>		"	<i>0.0333</i>		<i>119</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0309</i>		"	<i>0.0333</i>		<i>92.6</i>		<i>40-150</i>		

LCS (BGD0152-BS1)

Prepared & Analyzed: 04/06/23

Acenaphthene	0.0341	0.00500	mg/kg	0.0333		102		31-137		
Anthracene	0.0367	0.00500	"	0.0333		110		30-120		
Benzo (a) anthracene	0.0339	0.00500	"	0.0333		102		30-120		
Benzo (a) pyrene	0.0336	0.00500	"	0.0333		101		30-120		
Benzo (b) fluoranthene	0.0370	0.00500	"	0.0333		111		30-120		
Benzo (k) fluoranthene	0.0360	0.00500	"	0.0333		108		30-120		
Chrysene	0.0275	0.00500	"	0.0333		82.6		30-120		
Dibenz (a,h) anthracene	0.0267	0.00500	"	0.0333		80.2		30-120		
Fluoranthene	0.0368	0.00500	"	0.0333		110		30-120		
Fluorene	0.0345	0.00500	"	0.0333		103		30-120		
Indeno (1,2,3-cd) pyrene	0.0255	0.00500	"	0.0333		76.4		30-120		
Pyrene	0.0360	0.00500	"	0.0333		108		35-142		
1-Methylnaphthalene	0.0365	0.00500	"	0.0333		109		35-142		
2-Methylnaphthalene	0.0379	0.00500	"	0.0333		114		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0390</i>		"	<i>0.0333</i>		<i>117</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0354</i>		"	<i>0.0333</i>		<i>106</i>		<i>40-150</i>		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0152 - EPA 5030 Soil MS

Matrix Spike (BGD0152-MS1)	Source: 2304016-01			Prepared & Analyzed: 04/06/23							
Acenaphthene	0.0240	0.00500	mg/kg	0.0333	ND	72.1	31-137				
Anthracene	0.0280	0.00500	"	0.0333	ND	83.9	30-120				
Benzo (a) anthracene	0.0258	0.00500	"	0.0333	ND	77.4	30-120				
Benzo (a) pyrene	0.0255	0.00500	"	0.0333	ND	76.5	30-120				
Benzo (b) fluoranthene	0.0263	0.00500	"	0.0333	ND	78.8	30-120				
Benzo (k) fluoranthene	0.0285	0.00500	"	0.0333	ND	85.4	30-120				
Chrysene	0.0221	0.00500	"	0.0333	ND	66.4	30-120				
Dibenz (a,h) anthracene	0.0209	0.00500	"	0.0333	ND	62.7	30-120				
Fluoranthene	0.0276	0.00500	"	0.0333	ND	82.7	30-120				
Fluorene	0.0271	0.00500	"	0.0333	ND	81.4	30-120				
Indeno (1,2,3-cd) pyrene	0.0196	0.00500	"	0.0333	ND	58.8	30-120				
Pyrene	0.0306	0.00500	"	0.0333	ND	91.8	35-142				
1-Methylnaphthalene	0.0310	0.00500	"	0.0333	ND	92.9	15-130				
2-Methylnaphthalene	0.0344	0.00500	"	0.0333	ND	103	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0318</i>		<i>"</i>	<i>0.0333</i>		<i>95.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0299</i>		<i>"</i>	<i>0.0333</i>		<i>89.8</i>	<i>40-150</i>				

Matrix Spike Dup (BGD0152-MSD1)	Source: 2304016-01			Prepared & Analyzed: 04/06/23							
Acenaphthene	0.0310	0.00500	mg/kg	0.0333	ND	93.1	31-137	25.4	30		
Anthracene	0.0326	0.00500	"	0.0333	ND	97.8	30-120	15.3	30		
Benzo (a) anthracene	0.0303	0.00500	"	0.0333	ND	90.8	30-120	16.0	30		
Benzo (a) pyrene	0.0308	0.00500	"	0.0333	ND	92.5	30-120	18.9	30		
Benzo (b) fluoranthene	0.0313	0.00500	"	0.0333	ND	93.8	30-120	17.4	30		
Benzo (k) fluoranthene	0.0327	0.00500	"	0.0333	ND	98.0	30-120	13.7	30		
Chrysene	0.0251	0.00500	"	0.0333	ND	75.3	30-120	12.6	30		
Dibenz (a,h) anthracene	0.0260	0.00500	"	0.0333	ND	77.9	30-120	21.7	30		
Fluoranthene	0.0314	0.00500	"	0.0333	ND	94.2	30-120	13.0	30		
Fluorene	0.0347	0.00500	"	0.0333	ND	104	30-120	24.5	30		
Indeno (1,2,3-cd) pyrene	0.0256	0.00500	"	0.0333	ND	76.8	30-120	26.5	30		
Pyrene	0.0347	0.00500	"	0.0333	ND	104	35-142	12.6	30		
1-Methylnaphthalene	0.0345	0.00500	"	0.0333	ND	104	15-130	10.9	50		
2-Methylnaphthalene	0.0374	0.00500	"	0.0333	ND	112	15-130	8.36	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0347</i>		<i>"</i>	<i>0.0333</i>		<i>104</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0340</i>		<i>"</i>	<i>0.0333</i>		<i>102</i>	<i>40-150</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

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

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

Batch BGD0097 - EPA 3050B

Blank (BGD0097-BLK1)				Prepared: 04/04/23 Analyzed: 04/08/23							
Boron	ND	0.0100	mg/L								
LCS (BGD0097-BS1)				Prepared: 04/04/23 Analyzed: 04/08/23							
Boron	4.81	0.0100	mg/L	5.00	96.3	80-120					
Duplicate (BGD0097-DUP1)				Source: 2303771-01		Prepared: 04/04/23 Analyzed: 04/08/23					
Boron	0.0760	0.0100	mg/L	0.0812	6.64	20					
Matrix Spike (BGD0097-MS1)				Source: 2303771-01		Prepared: 04/04/23 Analyzed: 04/08/23					
Boron	4.94	0.0100	mg/L	5.00	0.0812	97.2	75-125				
Matrix Spike Dup (BGD0097-MSD1)				Source: 2303771-01		Prepared: 04/04/23 Analyzed: 04/08/23					
Boron	5.09	0.0100	mg/L	5.00	0.0812	100	75-125	2.92	25		

Batch BGD0239 - EPA 3050B

Blank (BGD0239-BLK1)				Prepared: 04/08/23 Analyzed: 04/12/23							
Boron	ND	0.0100	mg/L								
LCS (BGD0239-BS1)				Prepared: 04/08/23 Analyzed: 04/12/23							
Boron	4.86	0.0100	mg/L	5.00	97.3	80-120					
Duplicate (BGD0239-DUP1)				Source: 2303771-11		Prepared: 04/08/23 Analyzed: 04/12/23					
Boron	0.0634	0.0100	mg/L	0.0571	10.4	20					
Matrix Spike (BGD0239-MS1)				Source: 2303771-11		Prepared: 04/08/23 Analyzed: 04/12/23					
Boron	4.76	0.0100	mg/L	5.00	0.0571	94.1	75-125				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

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

Summit Scientific

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

Batch BGD0239 - EPA 3050B

Matrix Spike Dup (BGD0239-MSD1)

Source: 2303771-11

Prepared: 04/08/23 Analyzed: 04/12/23

Boron	4.77	0.0100	mg/L	5.00	0.0571	94.2	75-125	0.169	25	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

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

Summit Scientific

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

Batch BGD0099 - General Preparation

Blank (BGD0099-BLK1)

Prepared: 04/04/23 Analyzed: 04/08/23

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

LCS (BGD0099-BS1)

Prepared: 04/04/23 Analyzed: 04/08/23

Calcium	5.81	0.0500	mg/L wet	5.00	116	70-130
Magnesium	5.11	0.0500	"	5.00	102	70-130
Sodium	5.29	0.0500	"	5.00	106	70-130

Batch BGD0341 - General Preparation

Blank (BGD0341-BLK1)

Prepared: 04/11/23 Analyzed: 04/17/23

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

LCS (BGD0341-BS1)

Prepared: 04/11/23 Analyzed: 04/17/23

Calcium	5.31	0.0500	mg/L wet	5.00	106	70-130
Magnesium	4.95	0.0500	"	5.00	99.0	70-130
Sodium	5.08	0.0500	"	5.00	102	70-130

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

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

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

Batch BGD0093 - General Preparation

Duplicate (BGD0093-DUP1)		Source: 2303769-01		Prepared: 04/04/23 Analyzed: 04/06/23	
% Solids	92.4		%	92.6	0.208 20

Batch BGD0200 - General Preparation

Duplicate (BGD0200-DUP1)		Source: 2303542-01		Prepared & Analyzed: 04/07/23	
% Solids	90.7		%	90.7	0.0163 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

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

Summit Scientific

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

Batch BGD0121 - General Preparation

Blank (BGD0121-BLK1)

Prepared & Analyzed: 04/05/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGD0121-BS1)

Prepared & Analyzed: 04/05/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.5 95-105

Duplicate (BGD0121-DUP1)

Source: 2303767-01

Prepared & Analyzed: 04/05/23

Specific Conductance (EC) 0.570 0.0100 mmhos/cm 0.568 0.228 20

Batch BGD0371 - General Preparation

Blank (BGD0371-BLK1)

Prepared: 04/12/23 Analyzed: 04/13/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGD0371-BS1)

Prepared: 04/12/23 Analyzed: 04/13/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BGD0371-DUP1)

Source: 2303542-01

Prepared: 04/12/23 Analyzed: 04/13/23

Specific Conductance (EC) 0.722 0.0100 mmhos/cm 0.730 1.17 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 04/18/23 11:16

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

Summit Scientific

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

Batch BGD0120 - General Preparation

LCS (BGD0120-BS1)

Prepared & Analyzed: 04/05/23

pH	9.03		pH Units	9.18		98.4	95-105		
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Duplicate (BGD0120-DUP1)

Source: 2303767-01

Prepared & Analyzed: 04/05/23

pH	7.61		pH Units			7.59		0.263	20
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Batch BGD0372 - General Preparation

LCS (BGD0372-BS1)

Prepared: 04/12/23 Analyzed: 04/13/23

pH	9.05		pH Units	9.18		98.6	95-105		
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Duplicate (BGD0372-DUP1)

Source: 2303542-01

Prepared: 04/12/23 Analyzed: 04/13/23

pH	7.90		pH Units			7.92		0.253	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Hanscome Balboa Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/18/23 11:16

Notes and Definitions

I-04 Sample was analyzed out of recommended holding time per clients request.

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