

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 23, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Patriot Tank Battery
Work Order #2301329

Enclosed are the results of analyses for samples received by Summit Scientific on 01/17/23 16:30. 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 - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-N Surf	2301329-01	Soil	01/16/23 00:00	01/17/23 16:30
AST-S Surf	2301329-02	Soil	01/16/23 00:00	01/17/23 16:30
SEP 1 Surf	2301329-03	Soil	01/16/23 00:00	01/17/23 16:30
SEP 2 Surf	2301329-04	Soil	01/16/23 00:00	01/17/23 16:30
PVW Floor 5 ft	2301329-05	Soil	01/16/23 00:00	01/17/23 16:30
BKG 3 ft	2301329-06	Soil	01/16/23 00:00	01/17/23 16:30

Summit Scientific

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Summit Scientific

2301329

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 : Dan

Phone:

Project Name: Noble - Patriot Tank Battery

Sampler Name:

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-N SURF.	1/16/23		2			X			X			X	X	X						
2	AST-S SURF																				
3	SEP 1 SURF																				
4	SEP 2 SURF																				
5	PWV Floor SFT																				
6	BKG SFT																				
7																					
8																					
9																					
10																					

Relinquished by: EJH/Block	Date/Time: 1/17/23 1600	Received by: S ₂	Date/Time: 1/17/23 1600	Turn Around Time (Check)	Notes:
Relinquished by: S ₂	Date/Time: 1/17/23 1630	Received by: [Signature]	Date/Time: 1/17/23 1630	Same Day _____ 72 hours	Standard <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours _____	
				48 hours _____	
				Sample Integrity:	
				Temperature Upon Receipt: 8.0	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2301329

Client: Fremont Client Project ID: Noble Patriot 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) 8.0 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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.

[Signature]
Custodian Printed Name

1-17-23 1430
Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

AST-N Surf
2301329-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGA0425	01/18/23	01/19/23	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: **01/16/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0476	119 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGA0427	01/18/23	01/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	15.0	120 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

AST-N Surf
2301329-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0456	01/19/23	01/20/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0217	65.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0281	84.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0800	0.0100	mg/L	1	BGA0476	01/19/23	01/21/23	EPA 6020B	

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

Date Sampled: **01/16/23 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 - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

AST-N Surf
2301329-01 (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	15.4	0.0536	mg/L dry	1	BGA0487	01/19/23	01/21/23	EPA 6020B	
Magnesium	8.00	0.0536	"	"	"	"	"	"	
Sodium	10.7	0.0536	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.551	0.00100	units	1	BGA0545	01/23/23	01/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BGA0495	01/20/23	01/20/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.421	0.0100	mmhos/cm	1	BGA0505	01/20/23	01/20/23	EPA 120.1	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.18		pH Units	1	BGA0504	01/20/23	01/20/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

AST-S Surf
2301329-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGA0425	01/18/23	01/19/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0471	118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0382	95.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0426	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0427	01/18/23	01/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.7	125 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

AST-S Surf
2301329-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0456	01/19/23	01/20/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0228	68.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0284	85.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0750	0.0100	mg/L	1	BGA0476	01/19/23	01/21/23	EPA 6020B	

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

Date Sampled: **01/16/23 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 - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

AST-S Surf
2301329-02 (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	33.9	0.0534	mg/L dry	1	BGA0487	01/19/23	01/21/23	EPA 6020B	
Magnesium	4.10	0.0534	"	"	"	"	"	"	
Sodium	6.02	0.0534	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.260	0.00100	units	1	BGA0545	01/23/23	01/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.6		%	1	BGA0495	01/20/23	01/20/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.308	0.0100	mmhos/cm	1	BGA0505	01/20/23	01/20/23	EPA 120.1	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.46		pH Units	1	BGA0504	01/20/23	01/20/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

SEP 1 Surf
2301329-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGA0425	01/18/23	01/19/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0438	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0377	94.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0427	01/18/23	01/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.9	119 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
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Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

SEP 1 Surf
2301329-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0456	01/19/23	01/20/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0252	75.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0295	88.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0872	0.0100	mg/L	1	BGA0476	01/19/23	01/21/23	EPA 6020B	

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

Date Sampled: **01/16/23 00:00**

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

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

SEP 1 Surf
2301329-03 (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	12.3	0.0542	mg/L dry	1	BGA0487	01/19/23	01/21/23	EPA 6020B	
Magnesium	3.04	0.0542	"	"	"	"	"	"	
Sodium	4.34	0.0542	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.287	0.00100	units	1	BGA0545	01/23/23	01/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.2		%	1	BGA0495	01/20/23	01/20/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.378	0.0100	mmhos/cm	1	BGA0505	01/20/23	01/20/23	EPA 120.1	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.89		pH Units	1	BGA0504	01/20/23	01/20/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

SEP 2 Surf
2301329-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGA0425	01/18/23	01/19/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0444	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0383	95.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0427	01/18/23	01/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.3	122 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

SEP 2 Surf
2301329-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0456	01/19/23	01/20/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0268	80.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0340	102 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.129	0.0100	mg/L	1	BGA0476	01/19/23	01/21/23	EPA 6020B	

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

Date Sampled: **01/16/23 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 - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

SEP 2 Surf
2301329-04 (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	13.8	0.0562	mg/L dry	1	BGA0487	01/19/23	01/21/23	EPA 6020B	
Magnesium	3.18	0.0562	"	"	"	"	"	"	
Sodium	2.01	0.0562	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.127	0.00100	units	1	BGA0545	01/23/23	01/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BGA0495	01/20/23	01/20/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.364	0.0100	mmhos/cm	1	BGA0505	01/20/23	01/20/23	EPA 120.1	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BGA0504	01/20/23	01/20/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

**PVW Floor 5 ft
2301329-05 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGA0425	01/18/23	01/19/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0455	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0383	95.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0427	01/18/23	01/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/23 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 - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

PVW Floor 5 ft
2301329-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0456	01/19/23	01/20/23	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: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0278	83.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0355	107 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0808	0.0100	mg/L	1	BGA0476	01/19/23	01/21/23	EPA 6020B	

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

Date Sampled: **01/16/23 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 - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

**PVW Floor 5 ft
 2301329-05 (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	10.1	0.0524	mg/L dry	1	BGA0487	01/19/23	01/21/23	EPA 6020B	
Magnesium	2.05	0.0524	"	"	"	"	"	"	
Sodium	1.33	0.0524	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0998	0.00100	units	1	BGA0545	01/23/23	01/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BGA0495	01/20/23	01/20/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.391	0.0100	mmhos/cm	1	BGA0505	01/20/23	01/20/23	EPA 120.1	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BGA0504	01/20/23	01/20/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

BKG 3 ft
2301329-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.127	0.0100	mg/L	1	BGA0476	01/19/23	01/21/23	EPA 6020B	

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	9.97	0.0535	mg/L dry	1	BGA0487	01/19/23	01/21/23	EPA 6020B	
Magnesium	2.70	0.0535	"	"	"	"	"	"	
Sodium	3.35	0.0535	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.243	0.00100	units	1	BGA0545	01/23/23	01/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BGA0495	01/20/23	01/20/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.546	0.0100	mmhos/cm	1	BGA0505	01/20/23	01/20/23	EPA 120.1	

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

BKG 3 ft
2301329-06 (Soil)

Summit Scientific

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

Date Sampled: **01/16/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.88		pH Units	1	BGA0504	01/20/23	01/20/23	EPA 9045D	

Summit Scientific

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





Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

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 BGA0425 - EPA 5030 Soil MS

Blank (BGA0425-BLK1)

Prepared: 01/18/23 Analyzed: 01/19/23

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>	0.0473		"	0.0400		118	50-150			
<i>Surrogate: Toluene-d8</i>	0.0384		"	0.0400		96.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0418		"	0.0400		104	50-150			

LCS (BGA0425-BS1)

Prepared: 01/18/23 Analyzed: 01/19/23

Benzene	0.112	0.0020	mg/kg	0.125		90.0	70-130			
Toluene	0.156	0.0050	"	0.125		125	70-130			
Ethylbenzene	0.148	0.0050	"	0.125		119	70-130			
m,p-Xylene	0.290	0.010	"	0.250		116	70-130			
o-Xylene	0.146	0.0050	"	0.125		117	70-130			
1,2,4-Trimethylbenzene	0.0909	0.0050	"	0.125		72.7	70-130			
1,3,5-Trimethylbenzene	0.0912	0.0050	"	0.125		73.0	70-130			
Naphthalene	0.0995	0.0038	"	0.125		79.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0410		"	0.0400		103	50-150			
<i>Surrogate: Toluene-d8</i>	0.0440		"	0.0400		110	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0420		"	0.0400		105	50-150			

Matrix Spike (BGA0425-MS1)

Source: 2301326-01

Prepared: 01/18/23 Analyzed: 01/19/23

Benzene	0.105	0.0020	mg/kg	0.125	ND	83.9	70-130			
Toluene	0.111	0.0050	"	0.125	ND	88.4	70-130			
Ethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130			
m,p-Xylene	0.270	0.010	"	0.250	ND	108	70-130			
o-Xylene	0.134	0.0050	"	0.125	ND	107	70-130			
1,2,4-Trimethylbenzene	0.158	0.0050	"	0.125	ND	127	70-130			
1,3,5-Trimethylbenzene	0.158	0.0050	"	0.125	ND	127	70-130			
Naphthalene	0.162	0.0038	"	0.125	ND	130	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0480		"	0.0400		120	50-150			
<i>Surrogate: Toluene-d8</i>	0.0377		"	0.0400		94.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0383		"	0.0400		95.8	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGA0425 - EPA 5030 Soil MS

Matrix Spike Dup (BGA0425-MSD1)	Source: 2301326-01			Prepared: 01/18/23 Analyzed: 01/19/23						
Benzene	0.104	0.0020	mg/kg	0.125	ND	83.5	70-130	0.459	30	
Toluene	0.110	0.0050	"	0.125	ND	88.1	70-130	0.408	30	
Ethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130	0.125	30	
m,p-Xylene	0.273	0.010	"	0.250	ND	109	70-130	0.840	30	
o-Xylene	0.134	0.0050	"	0.125	ND	107	70-130	0.201	30	
1,2,4-Trimethylbenzene	0.160	0.0050	"	0.125	ND	128	70-130	0.905	30	
1,3,5-Trimethylbenzene	0.160	0.0050	"	0.125	ND	128	70-130	1.26	30	
Naphthalene	0.137	0.0038	"	0.125	ND	109	70-130	17.0	30	
Surrogate: 1,2-Dichloroethane-d4	0.0486		"	0.0400		122	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

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 BGA0427 - EPA 3550A

Blank (BGA0427-BLK1)

Prepared & Analyzed: 01/18/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	15.9		"	12.5		127		30-150			

LCS (BGA0427-BS1)

Prepared & Analyzed: 01/18/23

C10-C28 (DRO)	437	50	mg/kg	500		87.4		70-130			
Surrogate: <i>o</i> -Terphenyl	16.4		"	12.5		131		30-150			

Matrix Spike (BGA0427-MS1)

Source: 2301326-01

Prepared & Analyzed: 01/18/23

C10-C28 (DRO)	436	50	mg/kg	500	12.9	84.5		70-130			
Surrogate: <i>o</i> -Terphenyl	15.0		"	12.5		120		30-150			

Matrix Spike Dup (BGA0427-MSD1)

Source: 2301326-01

Prepared & Analyzed: 01/18/23

C10-C28 (DRO)	450	50	mg/kg	500	12.9	87.3		70-130	3.16	20	
Surrogate: <i>o</i> -Terphenyl	16.8		"	12.5		134		30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGA0456 - EPA 5030 Soil MS

Blank (BGA0456-BLK1)

Prepared & Analyzed: 01/19/23

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>0.0265</i>		"	<i>0.0333</i>		<i>79.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0331</i>		"	<i>0.0333</i>		<i>99.4</i>	<i>40-150</i>			

LCS (BGA0456-BS1)

Prepared & Analyzed: 01/19/23

Acenaphthene	0.0332	0.00500	mg/kg	0.0333		99.5	31-137			
Anthracene	0.0343	0.00500	"	0.0333		103	30-120			
Benzo (a) anthracene	0.0304	0.00500	"	0.0333		91.3	30-120			
Benzo (a) pyrene	0.0301	0.00500	"	0.0333		90.2	30-120			
Benzo (b) fluoranthene	0.0299	0.00500	"	0.0333		89.6	30-120			
Benzo (k) fluoranthene	0.0324	0.00500	"	0.0333		97.3	30-120			
Chrysene	0.0313	0.00500	"	0.0333		93.8	30-120			
Dibenz (a,h) anthracene	0.0270	0.00500	"	0.0333		81.0	30-120			
Fluoranthene	0.0341	0.00500	"	0.0333		102	30-120			
Fluorene	0.0342	0.00500	"	0.0333		103	30-120			
Indeno (1,2,3-cd) pyrene	0.0302	0.00500	"	0.0333		90.7	30-120			
Pyrene	0.0309	0.00500	"	0.0333		92.6	35-142			
1-Methylnaphthalene	0.0277	0.00500	"	0.0333		83.0	35-142			
2-Methylnaphthalene	0.0278	0.00500	"	0.0333		83.3	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0309</i>		"	<i>0.0333</i>		<i>92.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0359</i>		"	<i>0.0333</i>		<i>108</i>	<i>40-150</i>			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

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 BGA0456 - EPA 5030 Soil MS

Matrix Spike (BGA0456-MS1)

Source: 2301297-03

Prepared & Analyzed: 01/19/23

Acenaphthene	0.0239	0.00500	mg/kg	0.0333	ND	71.7	31-137			
Anthracene	0.0244	0.00500	"	0.0333	ND	73.2	30-120			
Benzo (a) anthracene	0.0224	0.00500	"	0.0333	ND	67.1	30-120			
Benzo (a) pyrene	0.0211	0.00500	"	0.0333	ND	63.3	30-120			
Benzo (b) fluoranthene	0.0223	0.00500	"	0.0333	ND	66.8	30-120			
Benzo (k) fluoranthene	0.0224	0.00500	"	0.0333	ND	67.2	30-120			
Chrysene	0.0223	0.00500	"	0.0333	ND	66.8	30-120			
Dibenz (a,h) anthracene	0.0203	0.00500	"	0.0333	ND	60.8	30-120			
Fluoranthene	0.0239	0.00500	"	0.0333	ND	71.8	30-120			
Fluorene	0.0242	0.00500	"	0.0333	ND	72.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0222	0.00500	"	0.0333	ND	66.6	30-120			
Pyrene	0.0219	0.00500	"	0.0333	ND	65.7	35-142			
1-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.6	15-130			
2-Methylnaphthalene	0.0237	0.00500	"	0.0333	ND	71.1	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>72.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0245</i>		<i>"</i>	<i>0.0333</i>		<i>73.5</i>	<i>40-150</i>			

Matrix Spike Dup (BGA0456-MSD1)

Source: 2301297-03

Prepared & Analyzed: 01/19/23

Acenaphthene	0.0261	0.00500	mg/kg	0.0333	ND	78.4	31-137	8.93	30	
Anthracene	0.0281	0.00500	"	0.0333	ND	84.3	30-120	14.1	30	
Benzo (a) anthracene	0.0256	0.00500	"	0.0333	ND	76.7	30-120	13.3	30	
Benzo (a) pyrene	0.0241	0.00500	"	0.0333	ND	72.2	30-120	13.1	30	
Benzo (b) fluoranthene	0.0249	0.00500	"	0.0333	ND	74.8	30-120	11.4	30	
Benzo (k) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.5	30-120	7.50	30	
Chrysene	0.0248	0.00500	"	0.0333	ND	74.4	30-120	10.8	30	
Dibenz (a,h) anthracene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	11.2	30	
Fluoranthene	0.0300	0.00500	"	0.0333	ND	89.9	30-120	22.4	30	
Fluorene	0.0282	0.00500	"	0.0333	ND	84.5	30-120	15.0	30	
Indeno (1,2,3-cd) pyrene	0.0252	0.00500	"	0.0333	ND	75.5	30-120	12.5	30	
Pyrene	0.0252	0.00500	"	0.0333	ND	75.5	35-142	13.8	30	
1-Methylnaphthalene	0.0280	0.00500	"	0.0333	ND	83.9	15-130	17.3	50	
2-Methylnaphthalene	0.0259	0.00500	"	0.0333	ND	77.8	15-130	9.03	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0277</i>		<i>"</i>	<i>0.0333</i>		<i>83.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0296</i>		<i>"</i>	<i>0.0333</i>		<i>88.7</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

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

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

Batch BGA0476 - EPA 3050B

Blank (BGA0476-BLK1)

Prepared: 01/19/23 Analyzed: 01/21/23

Boron ND 0.0100 mg/L

LCS (BGA0476-BS1)

Prepared: 01/19/23 Analyzed: 01/21/23

Boron 4.93 0.0100 mg/L 5.00 98.7 80-120

Duplicate (BGA0476-DUP1)

Source: 2301323-01

Prepared: 01/19/23 Analyzed: 01/21/23

Boron 0.456 0.0100 mg/L 0.412 10.0 20

Matrix Spike (BGA0476-MS1)

Source: 2301323-01

Prepared: 01/19/23 Analyzed: 01/21/23

Boron 6.02 0.0100 mg/L 5.00 0.412 112 75-125

Matrix Spike Dup (BGA0476-MSD1)

Source: 2301323-01

Prepared: 01/19/23 Analyzed: 01/21/23

Boron 5.30 0.0100 mg/L 5.00 0.412 97.8 75-125 12.7 25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

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 BGA0487 - General Preparation

Blank (BGA0487-BLK1)

Prepared: 01/19/23 Analyzed: 01/20/23

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

LCS (BGA0487-BS1)

Prepared: 01/19/23 Analyzed: 01/20/23

Calcium	4.61	0.0500	mg/L wet	5.00	92.3	70-130				
Magnesium	5.13	0.0500	"	5.00	103	70-130				
Sodium	5.02	0.0500	"	5.00	100	70-130				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

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

Summit Scientific

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

Batch BGA0495 - General Preparation

Duplicate (BGA0495-DUP1)

Source: 2301328-01

Prepared & Analyzed: 01/20/23

% Solids	85.3		%		88.1			3.29	20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

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

Summit Scientific

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

Batch BGA0505 - General Preparation

Blank (BGA0505-BLK1)

Prepared & Analyzed: 01/20/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGA0505-BS1)

Prepared & Analyzed: 01/20/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.9 95-105

Duplicate (BGA0505-DUP1)

Source: 2301287-01

Prepared & Analyzed: 01/20/23

Specific Conductance (EC) 1.66 0.0100 mmhos/cm 1.67 0.780 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/23/23 16:01

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

Summit Scientific

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

Batch BGA0504 - General Preparation

LCS (BGA0504-BS1)

Prepared & Analyzed: 01/20/23

pH	9.04	pH Units	9.18	98.5	95-105
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Duplicate (BGA0504-DUP1)

Source: 2301287-01

Prepared & Analyzed: 01/20/23

pH	7.76	pH Units	7.71	0.646	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Patriot Tank Battery

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/23/23 16:01

Notes and Definitions

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