

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 20, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Easton

Work Order #2212236

Enclosed are the results of analyses for samples received by Summit Scientific on 12/12/22 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3 ft	2212236-01	Soil	12/12/22 00:00	12/12/22 16:30
FL02 3 ft	2212236-02	Soil	12/12/22 00:00	12/12/22 16:30
FL05 4 ft	2212236-03	Soil	12/12/22 00:00	12/12/22 16:30

Summit Scientific

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Summit Scientific

2212236

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 - Easton

Sampler Name: FES

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	FLO1 3FT	12/12/22		2			X			X			X	X	X					
2	FLO2 3FT			1			↓			↓			↓	↓	↓					
3	FLO5 4FT	↓		1			↓			↓			↓	↓	↓					
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/12/22 1630</u>	Received by: <u>S2</u>	Date/Time: <u>12/12/22 1630</u>	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: <u>7.0</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by: <u>S2</u>	Date/Time: <u>12/12/22 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/12/22 1630</u>		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2212236

Client: Noble / Fremont Client Project ID: Easton

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

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

Temp (°C) Thermometer #

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

Jack Brar
Custodian Printed Name

12/12/22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL01 3 ft
2212236-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0346	12/14/22	12/15/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0349	12/14/22	12/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.1	97.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL01 3 ft
2212236-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0315	12/13/22	12/13/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0310	93.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.25	0.0100	mg/L	1	BFL0338	12/13/22	12/14/22	EPA 6020B	

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

Date Sampled: **12/12/22 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 - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

FL01 3 ft
2212236-01 (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	44.8	0.0555	mg/L dry	1	BFL0441	12/17/22	12/19/22	EPA 6020B	
Magnesium	16.3	0.0555	"	"	"	"	"	"	
Sodium	21.5	0.0555	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.699	0.00100	units	1	BFL0509	12/20/22	12/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.0		%	1	BFL0440	12/17/22	12/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.569	0.0100	mmhos/cm	1	BFL0453	12/18/22	12/18/22	EPA 120.1	

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

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BFL0454	12/18/22	12/18/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL02 3 ft
2212236-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0346	12/14/22	12/15/22	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: **12/12/22 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	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0349	12/14/22	12/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.5	116 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL02 3 ft
2212236-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0315	12/13/22	12/13/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	48.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0271	81.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.376	0.0100	mg/L	1	BFL0338	12/13/22	12/14/22	EPA 6020B	

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

Date Sampled: **12/12/22 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 - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL02 3 ft
2212236-02 (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	38.3	0.0587	mg/L dry	1	BFL0441	12/17/22	12/19/22	EPA 6020B	
Magnesium	37.2	0.0587	"	"	"	"	"	"	
Sodium	15.9	0.0587	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.439	0.00100	units	1	BFL0509	12/20/22	12/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BFL0440	12/17/22	12/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.510	0.0100	mmhos/cm	1	BFL0453	12/18/22	12/18/22	EPA 120.1	

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

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BFL0454	12/18/22	12/18/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

FL05 4 ft
2212236-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0346	12/14/22	12/15/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0349	12/14/22	12/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.1	129 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

FL05 4 ft
2212236-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0315	12/13/22	12/13/22	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: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0169	50.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0287	86.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.512	0.0100	mg/L	1	BFL0338	12/13/22	12/14/22	EPA 6020B	

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

Date Sampled: **12/12/22 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 - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

FL05 4 ft
2212236-03 (Soil)

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	63.5	0.0578	mg/L dry	1	BFL0441	12/17/22	12/19/22	EPA 6020B	
Magnesium	15.1	0.0578	"	"	"	"	"	"	
Sodium	12.0	0.0578	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.351	0.00100	units	1	BFL0509	12/20/22	12/20/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BFL0440	12/17/22	12/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.492	0.0100	mmhos/cm	1	BFL0453	12/18/22	12/18/22	EPA 120.1	

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

Date Sampled: **12/12/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BFL0454	12/18/22	12/18/22	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

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 BFL0346 - EPA 5030 Soil MS

Blank (BFL0346-BLK1)

Prepared & Analyzed: 12/14/22

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>	0.0382		"	0.0400		95.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		97.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0401		"	0.0400		100	50-150			

LCS (BFL0346-BS1)

Prepared & Analyzed: 12/14/22

Benzene	0.124	0.0020	mg/kg	0.125		99.3	70-130			
Toluene	0.141	0.0050	"	0.125		113	70-130			
Ethylbenzene	0.162	0.0050	"	0.125		130	70-130			
m,p-Xylene	0.314	0.010	"	0.250		126	70-130			
o-Xylene	0.146	0.0050	"	0.125		117	70-130			
1,2,4-Trimethylbenzene	0.153	0.0050	"	0.125		123	70-130			
1,3,5-Trimethylbenzene	0.163	0.0050	"	0.125		130	70-130			
Naphthalene	0.115	0.0038	"	0.125		91.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0357		"	0.0400		89.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0396		"	0.0400		99.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0375		"	0.0400		93.8	50-150			

Matrix Spike (BFL0346-MS1)

Source: 2212212-01

Prepared & Analyzed: 12/14/22

Benzene	0.124	0.0020	mg/kg	0.125	ND	99.0	70-130			
Toluene	0.143	0.0050	"	0.125	ND	114	70-130			
Ethylbenzene	0.162	0.0050	"	0.125	ND	130	70-130			
m,p-Xylene	0.318	0.010	"	0.250	ND	127	70-130			
o-Xylene	0.147	0.0050	"	0.125	ND	117	70-130			
1,2,4-Trimethylbenzene	0.160	0.0050	"	0.125	ND	128	70-130			
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125	ND	124	70-130			
Naphthalene	0.149	0.0038	"	0.125	ND	119	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0391		"	0.0400		97.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0394		"	0.0400		98.5	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0385		"	0.0400		96.2	50-150			

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Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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 BFL0346 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0346-MSD1)	Source: 2212212-01			Prepared & Analyzed: 12/14/22						
Benzene	0.120	0.0020	mg/kg	0.125	ND	96.0	70-130	3.08	30	
Toluene	0.140	0.0050	"	0.125	ND	112	70-130	2.15	30	
Ethylbenzene	0.154	0.0050	"	0.125	ND	123	70-130	4.86	30	
m,p-Xylene	0.304	0.010	"	0.250	ND	122	70-130	4.58	30	
o-Xylene	0.143	0.0050	"	0.125	ND	115	70-130	2.38	30	
1,2,4-Trimethylbenzene	0.152	0.0050	"	0.125	ND	122	70-130	4.68	30	
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.125	ND	125	70-130	0.289	30	
Naphthalene	0.144	0.0038	"	0.125	ND	115	70-130	3.99	30	
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.6	50-150			

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Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
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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 BFL0349 - EPA 3550A

Blank (BFL0349-BLK1)

Prepared & Analyzed: 12/14/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	17.4		"	12.5		139		30-150			

LCS (BFL0349-BS1)

Prepared & Analyzed: 12/14/22

C10-C28 (DRO)	501	50	mg/kg	500		100		70-130			
Surrogate: <i>o</i> -Terphenyl	16.2		"	12.5		130		30-150			

Matrix Spike (BFL0349-MS1)

Source: 2212212-01

Prepared & Analyzed: 12/14/22

C10-C28 (DRO)	479	50	mg/kg	500	15.2	92.7		70-130			
Surrogate: <i>o</i> -Terphenyl	9.76		"	12.5		78.0		30-150			

Matrix Spike Dup (BFL0349-MSD1)

Source: 2212212-01

Prepared & Analyzed: 12/14/22

C10-C28 (DRO)	452	50	mg/kg	500	15.2	87.3		70-130	5.89	20	
Surrogate: <i>o</i> -Terphenyl	8.40		"	12.5		67.2		30-150			

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Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

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 BFL0315 - EPA 5030 Soil MS

Blank (BFL0315-BLK1)

Prepared & Analyzed: 12/13/22

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>0.0232</i>		"	<i>0.0333</i>		<i>69.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0316</i>		"	<i>0.0333</i>		<i>94.7</i>	<i>40-150</i>			

LCS (BFL0315-BS1)

Prepared & Analyzed: 12/13/22

Acenaphthene	0.0346	0.00500	mg/kg	0.0333	104	31-137
Anthracene	0.0345	0.00500	"	0.0333	104	30-120
Benzo (a) anthracene	0.0351	0.00500	"	0.0333	105	30-120
Benzo (a) pyrene	0.0357	0.00500	"	0.0333	107	30-120
Benzo (b) fluoranthene	0.0358	0.00500	"	0.0333	107	30-120
Benzo (k) fluoranthene	0.0353	0.00500	"	0.0333	106	30-120
Chrysene	0.0372	0.00500	"	0.0333	112	30-120
Dibenz (a,h) anthracene	0.0315	0.00500	"	0.0333	94.6	30-120
Fluoranthene	0.0347	0.00500	"	0.0333	104	30-120
Fluorene	0.0341	0.00500	"	0.0333	102	30-120
Indeno (1,2,3-cd) pyrene	0.0276	0.00500	"	0.0333	82.9	30-120
Pyrene	0.0370	0.00500	"	0.0333	111	35-142
1-Methylnaphthalene	0.0303	0.00500	"	0.0333	91.0	35-142
2-Methylnaphthalene	0.0314	0.00500	"	0.0333	94.3	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0290</i>		"	<i>0.0333</i>	<i>87.1</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0362</i>		"	<i>0.0333</i>	<i>109</i>	<i>40-150</i>

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BFL0315 - EPA 5030 Soil MS

Matrix Spike (BFL0315-MS1)	Source: 2212236-01			Prepared & Analyzed: 12/13/22							
Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	63.9	31-137				
Anthracene	0.0212	0.00500	"	0.0333	ND	63.5	30-120				
Benzo (a) anthracene	0.0215	0.00500	"	0.0333	0.00129	60.8	30-120				
Benzo (a) pyrene	0.0189	0.00500	"	0.0333	ND	56.8	30-120				
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	0.00114	54.7	30-120				
Benzo (k) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.3	30-120				
Chrysene	0.0232	0.00500	"	0.0333	0.000966	66.8	30-120				
Dibenz (a,h) anthracene	0.0159	0.00500	"	0.0333	ND	47.6	30-120				
Fluoranthene	0.0252	0.00500	"	0.0333	0.00153	71.1	30-120				
Fluorene	0.0213	0.00500	"	0.0333	ND	63.9	30-120				
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.6	30-120				
Pyrene	0.0239	0.00500	"	0.0333	0.000647	69.6	35-142				
1-Methylnaphthalene	0.0221	0.00500	"	0.0333	ND	66.2	15-130				
2-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.7	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0196</i>		"	<i>0.0333</i>		<i>58.9</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0248</i>		"	<i>0.0333</i>		<i>74.3</i>	<i>40-150</i>				

Matrix Spike Dup (BFL0315-MSD1)	Source: 2212236-01			Prepared & Analyzed: 12/13/22							
Acenaphthene	0.0226	0.00500	mg/kg	0.0333	ND	67.9	31-137	6.05	30		
Anthracene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	7.02	30		
Benzo (a) anthracene	0.0235	0.00500	"	0.0333	0.00129	66.6	30-120	8.61	30		
Benzo (a) pyrene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	10.2	30		
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	0.00114	58.9	30-120	7.11	30		
Benzo (k) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.3	30-120	8.46	30		
Chrysene	0.0241	0.00500	"	0.0333	0.000966	69.3	30-120	3.55	30		
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	4.62	30		
Fluoranthene	0.0290	0.00500	"	0.0333	0.00153	82.5	30-120	14.0	30		
Fluorene	0.0226	0.00500	"	0.0333	ND	67.9	30-120	6.07	30		
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333	ND	57.2	30-120	1.01	30		
Pyrene	0.0221	0.00500	"	0.0333	0.000647	64.4	35-142	7.55	30		
1-Methylnaphthalene	0.0237	0.00500	"	0.0333	ND	71.0	15-130	7.01	50		
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.6	15-130	5.90	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0237</i>		"	<i>0.0333</i>		<i>71.0</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0282</i>		"	<i>0.0333</i>		<i>84.7</i>	<i>40-150</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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 BFL0338 - EPA 3050B

Blank (BFL0338-BLK1)

Prepared: 12/13/22 Analyzed: 12/14/22

Boron ND 0.0100 mg/L

LCS (BFL0338-BS1)

Prepared: 12/13/22 Analyzed: 12/14/22

Boron 5.38 0.0100 mg/L 5.00 108 80-120

Duplicate (BFL0338-DUP1)

Source: 2212212-01

Prepared: 12/13/22 Analyzed: 12/14/22

Boron 0.318 0.0100 mg/L 0.286 10.6 20

Matrix Spike (BFL0338-MS1)

Source: 2212212-01

Prepared: 12/13/22 Analyzed: 12/14/22

Boron 5.28 0.0100 mg/L 5.00 0.286 99.8 75-125

Matrix Spike Dup (BFL0338-MSD1)

Source: 2212212-01

Prepared: 12/13/22 Analyzed: 12/14/22

Boron 5.52 0.0100 mg/L 5.00 0.286 105 75-125 4.53 25

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 PO Box 1289
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Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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 BFL0441 - General Preparation

Blank (BFL0441-BLK1)

Prepared: 12/17/22 Analyzed: 12/19/22

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

LCS (BFL0441-BS1)

Prepared: 12/17/22 Analyzed: 12/19/22

Calcium	4.19	0.0500	mg/L wet	5.00		83.7	70-130			
Magnesium	4.46	0.0500	"	5.00		89.1	70-130			
Sodium	4.13	0.0500	"	5.00		82.5	70-130			

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Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

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

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

Batch BFL0440 - General Preparation

Duplicate (BFL0440-DUP1)

Source: 2212234-01

Prepared & Analyzed: 12/17/22

% Solids	94.0		%		94.6			0.656		20	
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Fremont Environmental
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Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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

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

Batch BFL0453 - General Preparation

Blank (BFL0453-BLK1)

Prepared & Analyzed: 12/18/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFL0453-BS1)

Prepared & Analyzed: 12/18/22

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BFL0453-DUP1)

Source: 2212234-01

Prepared & Analyzed: 12/18/22

Specific Conductance (EC) 0.336 0.0100 mmhos/cm 0.331 1.62 20

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Fremont Environmental
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Project: Noble - Easton

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/20/22 16:36

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 BFL0454 - General Preparation

LCS (BFL0454-BS1)

Prepared & Analyzed: 12/18/22

pH	8.99	pH Units	9.18	97.9	95-105
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Duplicate (BFL0454-DUP1)

Source: 2212234-01

Prepared & Analyzed: 12/18/22

pH	7.97	pH Units	7.87	1.26	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Easton

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/20/22 16:36

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