

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

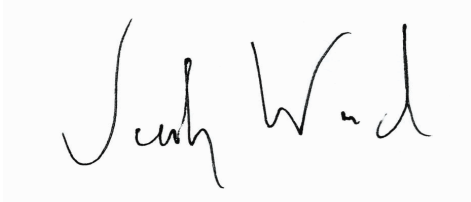
September 14, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Fanny B 01 Tank
Work Order #2309082

Enclosed are the results of analyses for samples received by Summit Scientific on 09/06/23 14:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small flourish at the end of the word "Wood".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN

Project Manager: Paul Henchan

Reported:
09/14/23 16:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST 0.5'	2309082-01	Soil	09/06/23 12:12	09/06/23 14:30
PWV FLOOR 6'	2309082-02	Soil	09/06/23 12:25	09/06/23 14:30
SEP DL 3'	2309082-03	Soil	09/06/23 12:34	09/06/23 14:30

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

Lab ID	Page 1 of 1
2309082	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: FANNY BOI TANK
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: FANNY BOI TANK	PO/Billing Codes: UWRWE-A2820-ABN
Sampler Name: Stanley Gilbert		Project Number:	Contact: Mike Montoya

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)
1	AST 0.5'	9/6/23	12:12	2			X			X			X	X	X	X		
2	PWV FLOOR 6'	I	12:25	I			I			I			I	I	I	I		
3	SEP DL 3'	I	12:34	I			I			I			I	I	I	I		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by:	Date/Time: 9/6/23 16:25	Received by: Summit North	Date/Time: 9/6/23 16:25	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: 52	Date/Time: 9/6/23 16:30	Received by:	Date/Time: 9/6/23 16:30	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 11.7	Corrected Temperature:	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2309082

Client: Fremont Client Project ID: Fanny Bol Tank

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

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

Temp (°C) 11.7 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"/>	on ICE
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 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 type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input 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

9/6/23
Date/Time

5555



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
09/14/23 16:55

AST 0.5'
2309082-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGI0166	09/07/23	09/08/23	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: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0167	09/07/23	09/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.7	102 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Paul Henchan

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09/14/23 16:55

AST 0.5'
2309082-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0335	09/13/23	09/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	54.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0217	65.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.261	0.0100	mg/L	1	BGI0226	09/11/23	09/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/06/23 12:12**

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

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

AST 0.5'
2309082-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.677	0.200	mg/kg dry	1	BGI0177	09/07/23	09/09/23	EPA 6020B	
Barium	47.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.92	0.400	"	"	"	"	"	"	
Lead	2.82	0.200	"	"	"	"	"	"	
Nickel	1.24	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.51	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.9	0.0526	mg/L dry	1	BGI0156	09/07/23	09/09/23	EPA 6020B	
Magnesium	8.54	0.0526	"	"	"	"	"	"	
Sodium	19.0	0.0526	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.885	0.00100	units	1	BGI0227	09/11/23	09/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Project Manager: Paul Henchan

Reported:
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AST 0.5'
2309082-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BGI0162	09/07/23	09/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.342	0.0100	mmhos/cm	1	BGI0184	09/08/23	09/08/23	EPA 120.1	

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

Date Sampled: **09/06/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.48		pH Units	1	BGI0185	09/08/23	09/08/23	EPA 9045D	

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Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
09/14/23 16:55

PWV FLOOR 6'
2309082-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGI0166	09/07/23	09/08/23	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: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0167	09/07/23	09/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.0	104 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Paul Henchan

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09/14/23 16:55

PWV FLOOR 6'
2309082-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0335	09/13/23	09/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0145	43.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0167	50.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.369	0.0100	mg/L	1	BGI0226	09/11/23	09/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Paul Henchan

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09/14/23 16:55

PWV FLOOR 6'
2309082-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.479	0.200	mg/kg dry	1	BGI0177	09/07/23	09/09/23	EPA 6020B	
Barium	47.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.42	0.400	"	"	"	"	"	"	
Lead	5.08	0.200	"	"	"	"	"	"	
Nickel	1.19	0.400	"	"	"	"	"	"	
Silver	0.0394	0.0200	"	"	"	"	"	"	
Zinc	7.74	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.4	0.0573	mg/L dry	1	BGI0156	09/07/23	09/09/23	EPA 6020B	
Magnesium	11.4	0.0573	"	"	"	"	"	"	
Sodium	41.3	0.0573	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.61	0.00100	units	1	BGI0227	09/11/23	09/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

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PWV FLOOR 6'
2309082-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3		%	1	BGI0162	09/07/23	09/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.594	0.0100	mmhos/cm	1	BGI0184	09/08/23	09/08/23	EPA 120.1	

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

Date Sampled: **09/06/23 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BGI0185	09/08/23	09/08/23	EPA 9045D	

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Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
09/14/23 16:55

SEP DL 3'
2309082-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGI0166	09/07/23	09/08/23	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: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0396	98.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGI0167	09/07/23	09/08/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.4	107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
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Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
09/14/23 16:55

SEP DL 3'
2309082-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0335	09/13/23	09/13/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0186	55.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.216	0.0100	mg/L	1	BGI0226	09/11/23	09/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
09/14/23 16:55

SEP DL 3'
2309082-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.587	0.200	mg/kg dry	1	BGI0177	09/07/23	09/09/23	EPA 6020B	
Barium	67.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.13	0.400	"	"	"	"	"	"	
Lead	5.59	0.200	"	"	"	"	"	"	
Nickel	1.52	0.400	"	"	"	"	"	"	
Silver	0.0409	0.0200	"	"	"	"	"	"	
Zinc	8.48	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0171	09/07/23	09/07/23	EPA 7196A	

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

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	136	0.0567	mg/L dry	1	BGI0156	09/07/23	09/09/23	EPA 6020B	
Magnesium	29.7	0.0567	"	"	"	"	"	"	
Sodium	38.9	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.788	0.00100	units	1	BGI0227	09/11/23	09/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

SEP DL 3'
2309082-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BGI0162	09/07/23	09/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.42	0.0100	mmhos/cm	1	BGI0184	09/08/23	09/08/23	EPA 120.1	

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

Date Sampled: **09/06/23 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.48		pH Units	1	BGI0185	09/08/23	09/08/23	EPA 9045D	

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Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
09/14/23 16:55

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 BGI0166 - EPA 5030 Soil MS

Blank (BGI0166-BLK1)

Prepared: 09/07/23 Analyzed: 09/08/23

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>	0.0369		"	0.0400		92.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		98.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0399		"	0.0400		99.7	50-150			

LCS (BGI0166-BS1)

Prepared: 09/07/23 Analyzed: 09/08/23

Benzene	0.100	0.0020	mg/kg	0.100		100	70-130			
Toluene	0.0979	0.0050	"	0.100		97.9	70-130			
Ethylbenzene	0.0985	0.0050	"	0.100		98.5	70-130			
m,p-Xylene	0.196	0.010	"	0.200		97.8	70-130			
o-Xylene	0.0975	0.0050	"	0.100		97.5	70-130			
1,2,4-Trimethylbenzene	0.0904	0.0050	"	0.100		90.4	70-130			
1,3,5-Trimethylbenzene	0.0941	0.0050	"	0.100		94.1	70-130			
Naphthalene	0.0752	0.0038	"	0.100		75.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0350		"	0.0400		87.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0374		"	0.0400		93.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0405		"	0.0400		101	50-150			

Matrix Spike (BGI0166-MS1)

Source: 2308661-02

Prepared: 09/07/23 Analyzed: 09/08/23

Benzene	0.0226	0.0020	mg/kg	0.100	ND	22.6	70-130			QM-05
Toluene	0.0147	0.0050	"	0.100	ND	14.7	70-130			QM-05
Ethylbenzene	0.0167	0.0050	"	0.100	ND	16.7	70-130			QM-05
m,p-Xylene	0.0479	0.010	"	0.200	0.00786	20.0	70-130			QM-05
o-Xylene	0.0283	0.0050	"	0.100	ND	28.3	70-130			QM-05
1,2,4-Trimethylbenzene	0.0170	0.0050	"	0.100	0.00522	11.8	70-130			QM-05
1,3,5-Trimethylbenzene	0.0131	0.0050	"	0.100	0.00369	9.39	70-130			QM-05
Naphthalene	0.0334	0.0038	"	0.100	ND	33.4	70-130			QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0536		"	0.0400		134	50-150			
<i>Surrogate: Toluene-d8</i>	0.0367		"	0.0400		91.6	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0333		"	0.0400		83.2	50-150			

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Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

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

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

Batch BGI0166 - EPA 5030 Soil MS

Matrix Spike Dup (BGI0166-MSD1)	Source: 2308661-02			Prepared: 09/07/23 Analyzed: 09/08/23						
Benzene	0.0262	0.0020	mg/kg	0.100	ND	26.2	70-130	15.0	30	QM-05
Toluene	0.0157	0.0050	"	0.100	ND	15.7	70-130	6.52	30	QM-05
Ethylbenzene	0.0174	0.0050	"	0.100	ND	17.4	70-130	4.40	30	QM-05
m,p-Xylene	0.0515	0.010	"	0.200	0.00786	21.8	70-130	7.30	30	QM-05
o-Xylene	0.0295	0.0050	"	0.100	ND	29.5	70-130	4.36	30	QM-05
1,2,4-Trimethylbenzene	0.0162	0.0050	"	0.100	0.00522	11.0	70-130	4.70	30	QM-05
1,3,5-Trimethylbenzene	0.0142	0.0050	"	0.100	0.00369	10.5	70-130	7.93	30	QM-05
Naphthalene	0.0217	0.0038	"	0.100	ND	21.7	70-130	42.4	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0470		"	0.0400		118	50-150			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0331		"	0.0400		82.8	50-150			

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Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

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 BGI0167 - EPA 3550A

Blank (BGI0167-BLK1)

Prepared & Analyzed: 09/07/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5	107		30-150				

LCS (BGI0167-BS1)

Prepared & Analyzed: 09/07/23

C10-C28 (DRO)	452	50	mg/kg	500	90.4		70-130				
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5	98.5		30-150				

Matrix Spike (BGI0167-MS1)

Source: 2308661-02

Prepared & Analyzed: 09/07/23

C10-C28 (DRO)	994	50	mg/kg	500	1300	NR	70-130				QM-05
Surrogate: <i>o</i> -Terphenyl	9.65		"	12.5		77.2	30-150				

Matrix Spike Dup (BGI0167-MSD1)

Source: 2308661-02

Prepared & Analyzed: 09/07/23

C10-C28 (DRO)	1610	50	mg/kg	500	1300	61.5	70-130	47.4	20		QM-05
Surrogate: <i>o</i> -Terphenyl	9.78		"	12.5		78.2	30-150				

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Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
09/14/23 16:55

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BGI0335 - EPA 5030 Soil MS

Blank (BGI0335-BLK1)

Prepared & Analyzed: 09/13/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0217		"	0.0333		65.1	40-150			
Surrogate: Fluoranthene-d10	0.0257		"	0.0333		77.1	40-150			

LCS (BGI0335-BS1)

Prepared & Analyzed: 09/13/23

Acenaphthene	0.0293	0.00500	mg/kg	0.0333		88.0	31-137			
Anthracene	0.0290	0.00500	"	0.0333		87.1	30-120			
Benzo (a) anthracene	0.0280	0.00500	"	0.0333		83.9	30-120			
Benzo (a) pyrene	0.0283	0.00500	"	0.0333		84.8	30-120			
Benzo (b) fluoranthene	0.0279	0.00500	"	0.0333		83.8	30-120			
Benzo (k) fluoranthene	0.0300	0.00500	"	0.0333		89.9	30-120			
Chrysene	0.0292	0.00500	"	0.0333		87.6	30-120			
Dibenz (a,h) anthracene	0.0250	0.00500	"	0.0333		75.1	30-120			
Fluoranthene	0.0286	0.00500	"	0.0333		85.8	30-120			
Fluorene	0.0288	0.00500	"	0.0333		86.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0315	0.00500	"	0.0333		94.5	30-120			
Pyrene	0.0300	0.00500	"	0.0333		89.9	35-142			
1-Methylnaphthalene	0.0249	0.00500	"	0.0333		74.6	35-142			
2-Methylnaphthalene	0.0314	0.00500	"	0.0333		94.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0264		"	0.0333		79.1	40-150			
Surrogate: Fluoranthene-d10	0.0296		"	0.0333		88.7	40-150			

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Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
09/14/23 16:55

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 BGI0335 - EPA 5030 Soil MS

Matrix Spike (BGI0335-MS1)	Source: 2309081-01			Prepared & Analyzed: 09/13/23							
Acenaphthene	0.0190	0.00500	mg/kg	0.0333	ND	56.9	31-137				
Anthracene	0.0192	0.00500	"	0.0333	ND	57.5	30-120				
Benzo (a) anthracene	0.0184	0.00500	"	0.0333	ND	55.3	30-120				
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	54.0	30-120				
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.3	30-120				
Benzo (k) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.2	30-120				
Chrysene	0.0182	0.00500	"	0.0333	ND	54.7	30-120				
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.2	30-120				
Fluoranthene	0.0189	0.00500	"	0.0333	ND	56.8	30-120				
Fluorene	0.0201	0.00500	"	0.0333	ND	60.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0193	0.00500	"	0.0333	ND	57.8	30-120				
Pyrene	0.0203	0.00500	"	0.0333	ND	60.8	35-142				
1-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.1	15-130				
2-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.7	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0171</i>		<i>"</i>	<i>0.0333</i>		<i>51.4</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0193</i>		<i>"</i>	<i>0.0333</i>		<i>57.9</i>	<i>40-150</i>				

Matrix Spike Dup (BGI0335-MSD1)	Source: 2309081-01			Prepared & Analyzed: 09/13/23							
Acenaphthene	0.0171	0.00500	mg/kg	0.0333	ND	51.2	31-137	10.4	30		
Anthracene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	25.3	30		
Benzo (a) anthracene	0.0136	0.00500	"	0.0333	ND	40.9	30-120	29.9	30		
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.2	30-120	26.8	30		
Benzo (b) fluoranthene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	25.9	30		
Benzo (k) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.1	30-120	26.8	30		
Chrysene	0.0137	0.00500	"	0.0333	ND	41.1	30-120	28.4	30		
Dibenz (a,h) anthracene	0.0161	0.00500	"	0.0333	ND	48.2	30-120	15.6	30		
Fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	10.8	30		
Fluorene	0.0179	0.00500	"	0.0333	ND	53.6	30-120	11.5	30		
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	29.3	30		
Pyrene	0.0150	0.00500	"	0.0333	ND	44.9	35-142	30.0	30		
1-Methylnaphthalene	0.0143	0.00500	"	0.0333	ND	43.0	15-130	24.7	50		
2-Methylnaphthalene	0.0136	0.00500	"	0.0333	ND	40.7	15-130	38.0	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0139</i>		<i>"</i>	<i>0.0333</i>		<i>41.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0141</i>		<i>"</i>	<i>0.0333</i>		<i>42.3</i>	<i>40-150</i>				

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

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 BGI0226 - EPA 3050B

Blank (BGI0226-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

Boron ND 0.0100 mg/L

LCS (BGI0226-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Boron 5.14 0.0100 mg/L 5.00 103 80-120

Duplicate (BGI0226-DUP1)

Source: 2309029-01

Prepared: 09/11/23 Analyzed: 09/12/23

Boron 0.292 0.0100 mg/L 0.343 16.3 20

Matrix Spike (BGI0226-MS1)

Source: 2309029-01

Prepared: 09/11/23 Analyzed: 09/12/23

Boron 6.22 0.0100 mg/L 5.00 0.343 118 75-125

Matrix Spike Dup (BGI0226-MSD1)

Source: 2309029-01

Prepared: 09/11/23 Analyzed: 09/12/23

Boron 6.16 0.0100 mg/L 5.00 0.343 116 75-125 1.03 25

Summit Scientific

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Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
09/14/23 16:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0177 - EPA 3050B

Blank (BGI0177-BLK1)

Prepared: 09/07/23 Analyzed: 09/09/23

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

LCS (BGI0177-BS1)

Prepared: 09/07/23 Analyzed: 09/09/23

Arsenic	39.3	0.200	mg/kg wet	40.0		98.2	80-120
Barium	38.5	0.400	"	40.0		96.2	80-120
Cadmium	1.93	0.200	"	2.00		96.5	80-120
Copper	36.5	0.400	"	40.0		91.2	80-120
Lead	19.5	0.200	"	20.0		97.7	80-120
Nickel	39.6	0.400	"	40.0		99.0	80-120
Silver	1.96	0.0200	"	2.00		97.9	80-120
Zinc	40.1	0.400	"	40.0		100	80-120

LCS (BGI0177-BS2)

Prepared: 09/07/23 Analyzed: 09/09/23

Arsenic	41.8	0.200	mg/kg wet	40.0		104	80-120
Barium	39.9	0.400	"	40.0		99.9	80-120
Cadmium	2.02	0.200	"	2.00		101	80-120
Copper	38.6	0.400	"	40.0		96.5	80-120
Lead	20.4	0.200	"	20.0		102	80-120
Nickel	41.8	0.400	"	40.0		104	80-120
Silver	2.03	0.0200	"	2.00		102	80-120
Zinc	42.2	0.400	"	40.0		106	80-120

Summit Scientific

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Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
09/14/23 16:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0177 - EPA 3050B

LCS (BGI0177-BS3)

Prepared: 09/07/23 Analyzed: 09/09/23

Arsenic	39.5	0.200	mg/kg wet	40.0		98.8	80-120			
Barium	39.2	0.400	"	40.0		98.1	80-120			
Cadmium	1.98	0.200	"	2.00		98.8	80-120			
Copper	36.5	0.400	"	40.0		91.1	80-120			
Lead	19.9	0.200	"	20.0		99.6	80-120			
Nickel	40.0	0.400	"	40.0		100	80-120			
Silver	1.99	0.0200	"	2.00		99.4	80-120			
Zinc	40.2	0.400	"	40.0		100	80-120			

LCS (BGI0177-BS4)

Prepared: 09/07/23 Analyzed: 09/09/23

Arsenic	40.5	0.200	mg/kg wet	40.0		101	80-120			
Barium	39.6	0.400	"	40.0		99.1	80-120			
Cadmium	2.04	0.200	"	2.00		102	80-120			
Copper	37.1	0.400	"	40.0		92.9	80-120			
Lead	20.3	0.200	"	20.0		101	80-120			
Nickel	40.6	0.400	"	40.0		101	80-120			
Silver	2.01	0.0200	"	2.00		101	80-120			
Zinc	40.8	0.400	"	40.0		102	80-120			

Duplicate (BGI0177-DUP1)

Source: 2309076-01

Prepared: 09/07/23 Analyzed: 09/09/23

Arsenic	0.419	0.200	mg/kg dry		0.437		4.14	20		
Barium	38.4	0.400	"		40.9		6.19	20		
Cadmium	0.0373	0.200	"		0.0340		9.15	20		
Copper	0.826	0.400	"		0.923		11.1	20		
Lead	8.92	0.200	"		3.19		94.7	20		QR-04
Nickel	0.639	0.400	"		0.766		18.0	20		
Silver	0.0168	0.0200	"		0.0182		8.00	20		
Zinc	4.44	0.400	"		5.07		13.1	20		
Selenium	ND	0.260	"		ND			200		

Summit Scientific

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Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0177 - EPA 3050B

Matrix Spike (BGI0177-MS1)

Source: 2309076-01

Prepared: 09/07/23 Analyzed: 09/09/23

Arsenic	20.8	0.200	mg/kg dry	46.6	0.437	43.7	75-125				QM-07
Barium	80.0	0.400	"	46.6	40.9	83.9	75-125				
Cadmium	2.28	0.200	"	2.33	0.0340	96.2	75-125				
Copper	20.0	0.400	"	46.6	0.923	40.8	75-125				QM-07
Lead	24.7	0.200	"	23.3	3.19	92.1	75-125				
Nickel	21.4	0.400	"	46.6	0.766	44.3	75-125				QM-07
Silver	2.28	0.0200	"	2.33	0.0182	96.8	75-125				
Zinc	25.1	0.400	"	46.6	5.07	43.0	75-125				QM-07

Matrix Spike Dup (BGI0177-MSD1)

Source: 2309076-01

Prepared: 09/07/23 Analyzed: 09/09/23

Arsenic	21.3	0.200	mg/kg dry	46.6	0.437	44.6	75-125	2.16	25		QM-07
Barium	78.7	0.400	"	46.6	40.9	81.2	75-125	1.59	25		
Cadmium	2.29	0.200	"	2.33	0.0340	96.7	75-125	0.511	25		
Copper	20.2	0.400	"	46.6	0.923	41.3	75-125	1.20	25		QM-07
Lead	24.5	0.200	"	23.3	3.19	91.5	75-125	0.560	25		
Nickel	21.5	0.400	"	46.6	0.766	44.5	75-125	0.578	25		QM-07
Silver	2.27	0.0200	"	2.33	0.0182	96.5	75-125	0.328	25		
Zinc	25.3	0.400	"	46.6	5.07	43.3	75-125	0.628	25		QM-07

Summit Scientific

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Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGI0171 - 3060A Mod

Blank (BGI0171-BLK1)

Prepared & Analyzed: 09/07/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0171-BS1)

Prepared & Analyzed: 09/07/23

Chromium, Hexavalent 24.0 0.30 mg/kg wet 25.0 96.2 80-120

Duplicate (BGI0171-DUP1)

Source: 2308661-02

Prepared & Analyzed: 09/07/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0171-MS1)

Source: 2308661-02

Prepared & Analyzed: 09/07/23

Chromium, Hexavalent 27.2 0.30 mg/kg dry 29.5 ND 92.2 75-125

Matrix Spike Dup (BGI0171-MSD1)

Source: 2308661-02

Prepared & Analyzed: 09/07/23

Chromium, Hexavalent 27.0 0.30 mg/kg dry 29.5 ND 91.6 75-125 0.653 20

Summit Scientific

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Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

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 BGI0156 - General Preparation

Blank (BGI0156-BLK1)

Prepared: 09/07/23 Analyzed: 09/09/23

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

LCS (BGI0156-BS1)

Prepared: 09/07/23 Analyzed: 09/09/23

Calcium	4.79	0.0500	mg/L wet	5.00	95.9	70-130				
Magnesium	4.69	0.0500	"	5.00	93.8	70-130				
Sodium	4.73	0.0500	"	5.00	94.6	70-130				

Summit Scientific

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Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

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 BGI0162 - General Preparation


Duplicate (BGI0162-DUP1)

Source: 2309079-01

Prepared & Analyzed: 09/07/23

% Solids	89.9		%		89.8			0.0490	20	
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Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

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 BGI0184 - General Preparation

Blank (BGI0184-BLK1)

Prepared & Analyzed: 09/08/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0184-BS1)

Prepared & Analyzed: 09/08/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

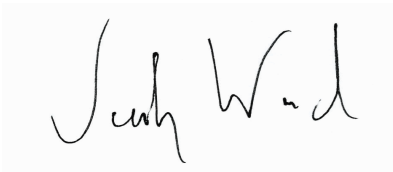
Duplicate (BGI0184-DUP1)

Source: 2308661-02

Prepared & Analyzed: 09/08/23

Specific Conductance (EC) 0.274 0.0100 mmhos/cm 0.274 0.00 20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 09/14/23 16:55

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 BGI0185 - General Preparation

LCS (BGI0185-BS1)

Prepared & Analyzed: 09/08/23

pH 9.09 pH Units 9.18 99.0 95-105

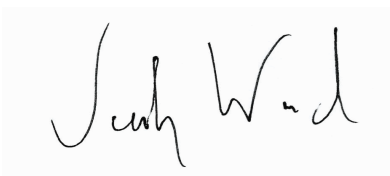
Duplicate (BGI0185-DUP1)

Source: 2308661-02

Prepared & Analyzed: 09/08/23

pH 7.85 pH Units 7.83 0.255 20

Summit Scientific



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Project Manager: Paul Henchan

Reported:
09/14/23 16:55

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference