

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 24, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Jepsen 23-2
Work Order #2308203

Enclosed are the results of analyses for samples received by Summit Scientific on 08/09/23 16:30. 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 large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen 23-2

Project Number: UWRWE-A3172-ABN

Project Manager: Paul Henchan

Reported:
08/24/23 10:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3'	2308203-01	Soil	08/09/23 13:21	08/09/23 16:30
FL03 3'	2308203-02	Soil	08/09/23 13:23	08/09/23 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
2308203	

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: JEPSEN 23-2
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: JEPSEN 23-2	PO/Billing Codes: UWRWE-A3172-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)	TDS, Chloride, Sulfate
1	FLO1 3'	8/9/23	13:21	2			X			X			X	X	X	X			
2	FLO3 3'	8/9/23	13:23	2			X			X			X	X	X	X			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 8/9/23 16:30	Received by:	Date/Time: 8/9/23 16:30	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 10.1	Corrected Temperature:	IR gun #: 1	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2308203

Client: Framont Client Project ID: Jepsen 23-2

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

-

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

Temp (°C) 16.1

Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NO ICE
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 checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS
Custodian Printed Name

8/9/23
Date/Time

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen 23-2
Project Number: UWRWE-A3172-ABN
Project Manager: Paul Henchan

Reported:
08/24/23 10:31

FL01 3'
2308203-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGH0405	08/10/23	08/11/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0454	114 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0440	110 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGH0408	08/10/23	08/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.38	75.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL01 3'
2308203-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0465	08/11/23	08/12/23	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: **08/09/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	52.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.494	0.0100	mg/L	1	BGH0533	08/14/23	08/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Jepsen 23-2
Project Number: UWRWE-A3172-ABN
Project Manager: Paul Henchan

Reported:
08/24/23 10:31

FL01 3'
2308203-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.550	0.200	mg/kg dry	1	BGH0460	08/11/23	08/12/23	EPA 6020B	
Barium	35.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.20	0.400	"	"	"	"	"	"	
Lead	2.86	0.200	"	"	"	"	"	"	
Nickel	0.970	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.10	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0462	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.4	0.0551	mg/L dry	1	BGH0553	08/14/23	08/16/23	EPA 6020B	
Magnesium	26.7	0.0551	"	"	"	"	"	"	
Sodium	9.35	0.0551	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.337	0.00100	units	1	BGH0715	08/17/23	08/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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FL01 3'
2308203-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.8		%	1	BGH0525	08/14/23	08/14/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.258	0.0100	mmhos/cm	1	BGH0651	08/16/23	08/16/23	EPA 120.1	

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

Date Sampled: **08/09/23 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.65		pH Units	1	BGH0650	08/16/23	08/16/23	EPA 9045D	

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08/24/23 10:31

FL03 3'
2308203-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGH0405	08/10/23	08/11/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0446	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0408	08/10/23	08/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.20	73.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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08/24/23 10:31

FL03 3'
2308203-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0465	08/11/23	08/12/23	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: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0164	49.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.440	0.0100	mg/L	1	BGH0533	08/14/23	08/15/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Jepsen 23-2
Project Number: UWRWE-A3172-ABN
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FL03 3'
2308203-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.636	0.200	mg/kg dry	1	BGH0460	08/11/23	08/12/23	EPA 6020B	
Barium	43.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.72	0.400	"	"	"	"	"	"	
Lead	4.92	0.200	"	"	"	"	"	"	
Nickel	1.22	0.400	"	"	"	"	"	"	
Silver	0.0233	0.0200	"	"	"	"	"	"	
Zinc	5.90	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0462	08/11/23	08/11/23	EPA 7196A	

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

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.4	0.0583	mg/L dry	1	BGH0553	08/14/23	08/16/23	EPA 6020B	
Magnesium	53.1	0.0583	"	"	"	"	"	"	
Sodium	4.61	0.0583	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.120	0.00100	units	1	BGH0715	08/17/23	08/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Reported:
 08/24/23 10:31

FL03 3'
2308203-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BGH0525	08/14/23	08/14/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.141	0.0100	mmhos/cm	1	BGH0651	08/16/23	08/16/23	EPA 120.1	

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

Date Sampled: **08/09/23 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.68		pH Units	1	BGH0650	08/16/23	08/16/23	EPA 9045D	

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Project: Noble - Jepsen 23-2

Project Number: UWRWE-A3172-ABN
Project Manager: Paul Henchan

Reported:
08/24/23 10:31

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 BGH0405 - EPA 5030 Soil MS

Blank (BGH0405-BLK1)

Prepared & Analyzed: 08/10/23

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>	0.0478		"	0.0400		119	50-150				
<i>Surrogate: Toluene-d8</i>	0.0400		"	0.0400		100	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0437		"	0.0400		109	50-150				

LCS (BGH0405-BS1)

Prepared & Analyzed: 08/10/23

Benzene	0.121	0.0020	mg/kg	0.100		121	70-130				
Toluene	0.111	0.0050	"	0.100		111	70-130				
Ethylbenzene	0.118	0.0050	"	0.100		118	70-130				
m,p-Xylene	0.238	0.010	"	0.200		119	70-130				
o-Xylene	0.101	0.0050	"	0.100		101	70-130				
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130				
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130				
Naphthalene	0.0881	0.0038	"	0.100		88.1	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0428		"	0.0400		107	50-150				
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400		99.6	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0377		"	0.0400		94.2	50-150				

Matrix Spike (BGH0405-MS1)

Source: 2308181-01

Prepared & Analyzed: 08/10/23

Benzene	0.132	0.0020	mg/kg	0.100	ND	132	70-130				QM-07
Toluene	0.121	0.0050	"	0.100	ND	121	70-130				
Ethylbenzene	0.124	0.0050	"	0.100	ND	124	70-130				
m,p-Xylene	0.248	0.010	"	0.200	ND	124	70-130				
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130				
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.100	ND	115	70-130				
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130				
Naphthalene	0.0962	0.0038	"	0.100	ND	96.2	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0464		"	0.0400		116	50-150				
<i>Surrogate: Toluene-d8</i>	0.0407		"	0.0400		102	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0386		"	0.0400		96.6	50-150				

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Fremont Environmental
 PO Box 1289
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Project: Noble - Jepsen 23-2
 Project Number: UWRWE-A3172-ABN
 Project Manager: Paul Henchan

Reported:
 08/24/23 10:31

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 BGH0405 - EPA 5030 Soil MS

Matrix Spike Dup (BGH0405-MSD1)	Source: 2308181-01			Prepared & Analyzed: 08/10/23						
Benzene	0.123	0.0020	mg/kg	0.100	ND	123	70-130	6.52	30	
Toluene	0.114	0.0050	"	0.100	ND	114	70-130	5.94	30	
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130	5.71	30	
m,p-Xylene	0.236	0.010	"	0.200	ND	118	70-130	5.15	30	
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130	4.42	30	
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130	5.63	30	
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	4.83	30	
Naphthalene	0.0959	0.0038	"	0.100	ND	95.9	70-130	0.250	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0446</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>93.0</i>	<i>50-150</i>			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen 23-2
Project Number: UWRWE-A3172-ABN
Project Manager: Paul Henchan

Reported:
08/24/23 10:31

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 BGH0408 - EPA 3550A

Blank (BGH0408-BLK1)

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.0		"	12.5		88.0	30-150				

LCS (BGH0408-BS1)

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	398	50	mg/kg	500		79.6	70-130				
Surrogate: <i>o</i> -Terphenyl	10.6		"	12.5		84.6	30-150				

Matrix Spike (BGH0408-MS1)

Source: 2308181-01

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	402	50	mg/kg	500	6.28	79.2	70-130				
Surrogate: <i>o</i> -Terphenyl	10.6		"	12.5		84.7	30-150				

Matrix Spike Dup (BGH0408-MSD1)

Source: 2308181-01

Prepared: 08/10/23 Analyzed: 08/11/23

C10-C28 (DRO)	413	50	mg/kg	500	6.28	81.4	70-130	2.75	20		
Surrogate: <i>o</i> -Terphenyl	10.4		"	12.5		82.9	30-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen 23-2
Project Number: UWRWE-A3172-ABN
Project Manager: Paul Henchan

Reported:
08/24/23 10:31

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 BGH0465 - EPA 5030 Soil MS

Blank (BGH0465-BLK1)

Prepared: 08/11/23 Analyzed: 08/12/23

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>0.0199</i>		"	<i>0.0333</i>		<i>59.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0209</i>		"	<i>0.0333</i>		<i>62.6</i>	<i>40-150</i>			

LCS (BGH0465-BS1)

Prepared: 08/11/23 Analyzed: 08/12/23

Acenaphthene	0.0213	0.00500	mg/kg	0.0333		63.9	31-137			
Anthracene	0.0216	0.00500	"	0.0333		64.8	30-120			
Benzo (a) anthracene	0.0183	0.00500	"	0.0333		54.8	30-120			
Benzo (a) pyrene	0.0208	0.00500	"	0.0333		62.5	30-120			
Benzo (b) fluoranthene	0.0206	0.00500	"	0.0333		61.7	30-120			
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333		60.4	30-120			
Chrysene	0.0228	0.00500	"	0.0333		68.3	30-120			
Dibenz (a,h) anthracene	0.0218	0.00500	"	0.0333		65.4	30-120			
Fluoranthene	0.0212	0.00500	"	0.0333		63.7	30-120			
Fluorene	0.0214	0.00500	"	0.0333		64.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0218	0.00500	"	0.0333		65.3	30-120			
Pyrene	0.0248	0.00500	"	0.0333		74.5	35-142			
1-Methylnaphthalene	0.0183	0.00500	"	0.0333		54.9	35-142			
2-Methylnaphthalene	0.0221	0.00500	"	0.0333		66.3	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0228</i>		"	<i>0.0333</i>		<i>68.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0234</i>		"	<i>0.0333</i>		<i>70.2</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen 23-2
Project Number: UWRWE-A3172-ABN
Project Manager: Paul Henchan

Reported:
08/24/23 10:31

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 BGH0465 - EPA 5030 Soil MS

Matrix Spike (BGH0465-MS1)

Source: 2308180-01

Prepared: 08/11/23 Analyzed: 08/12/23

Acenaphthene	0.0150	0.00500	mg/kg	0.0333	ND	45.1	31-137			
Anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120			
Benzo (a) anthracene	0.0153	0.00500	"	0.0333	ND	45.9	30-120			
Benzo (a) pyrene	0.0156	0.00500	"	0.0333	ND	46.9	30-120			
Benzo (b) fluoranthene	0.0159	0.00500	"	0.0333	ND	47.6	30-120			
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.4	30-120			
Chrysene	0.0167	0.00500	"	0.0333	ND	50.0	30-120			
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.7	30-120			
Fluoranthene	0.0159	0.00500	"	0.0333	ND	47.8	30-120			
Fluorene	0.0162	0.00500	"	0.0333	ND	48.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0162	0.00500	"	0.0333	ND	48.7	30-120			
Pyrene	0.0176	0.00500	"	0.0333	ND	52.8	35-142			
1-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.8	15-130			
2-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	48.8	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0179		"	0.0333		53.8	40-150			
Surrogate: Fluoranthene-d10	0.0178		"	0.0333		53.3	40-150			

Matrix Spike Dup (BGH0465-MSD1)

Source: 2308180-01

Prepared: 08/11/23 Analyzed: 08/12/23

Acenaphthene	0.0133	0.00500	mg/kg	0.0333	ND	40.0	31-137	11.9	30
Anthracene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	7.60	30
Benzo (a) anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	3.51	30
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	7.57	30
Benzo (b) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.4	30-120	6.97	30
Benzo (k) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	1.86	30
Chrysene	0.0151	0.00500	"	0.0333	ND	45.4	30-120	9.70	30
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	14.8	30
Fluoranthene	0.0142	0.00500	"	0.0333	ND	42.5	30-120	11.8	30
Fluorene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	6.52	30
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	11.7	30
Pyrene	0.0142	0.00500	"	0.0333	ND	42.7	35-142	21.2	30
1-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	47.9	15-130	6.80	50
2-Methylnaphthalene	0.0152	0.00500	"	0.0333	ND	45.7	15-130	6.61	50
Surrogate: 2-Methylnaphthalene-d10	0.0137		"	0.0333		41.1	40-150		
Surrogate: Fluoranthene-d10	0.0149		"	0.0333		44.8	40-150		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen 23-2
 Project Number: UWRWE-A3172-ABN
 Project Manager: Paul Henchan

Reported:
 08/24/23 10:31

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 BGH0533 - EPA 3050B

Blank (BGH0533-BLK1)

Prepared: 08/14/23 Analyzed: 08/15/23

Boron ND 0.0100 mg/L

LCS (BGH0533-BS1)

Prepared: 08/14/23 Analyzed: 08/15/23

Boron 5.22 0.0100 mg/L 5.00 104 80-120

Duplicate (BGH0533-DUP1)

Source: 2308180-01

Prepared: 08/14/23 Analyzed: 08/15/23

Boron 0.273 0.0100 mg/L 0.319 15.3 20

Matrix Spike (BGH0533-MS1)

Source: 2308180-01

Prepared: 08/14/23 Analyzed: 08/15/23

Boron 5.22 0.0100 mg/L 5.00 0.319 98.1 75-125

Matrix Spike Dup (BGH0533-MSD1)

Source: 2308180-01

Prepared: 08/14/23 Analyzed: 08/15/23

Boron 5.38 0.0100 mg/L 5.00 0.319 101 75-125 3.03 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen 23-2
Project Number: UWRWE-A3172-ABN
Project Manager: Paul Henchan

Reported:
08/24/23 10:31

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0460 - EPA 3050B

Blank (BGH0460-BLK1)

Prepared: 08/11/23 Analyzed: 08/12/23

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 (BGH0460-BS1)

Prepared: 08/11/23 Analyzed: 08/12/23

Arsenic	34.5	0.200	mg/kg wet	40.0	86.3	80-120
Barium	37.6	0.400	"	40.0	94.0	80-120
Cadmium	1.86	0.200	"	2.00	93.1	80-120
Copper	32.9	0.400	"	40.0	82.2	80-120
Lead	18.4	0.200	"	20.0	92.2	80-120
Nickel	32.1	0.400	"	40.0	80.1	80-120
Silver	1.77	0.0200	"	2.00	88.4	80-120
Zinc	34.9	0.400	"	40.0	87.1	80-120

Duplicate (BGH0460-DUP1)

Source: 2306321-01RE1

Prepared: 08/11/23 Analyzed: 08/12/23

Arsenic	0.800	0.200	mg/kg wet	0.629	24.0	20	QR-01
Barium	30.0	0.400	"	25.0	17.9	20	
Cadmium	0.390	0.200	"	0.288	30.2	20	QR-01
Copper	4.07	0.400	"	3.79	7.12	20	
Lead	17.2	0.200	"	14.9	14.2	20	
Nickel	3.06	0.400	"	2.35	26.3	20	QR-01
Silver	0.0408	0.0200	"	0.0360	12.5	20	
Zinc	17.8	0.400	"	14.1	23.6	20	QR-04
Selenium	ND	0.260	"	ND		200	

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Jepsen 23-2
 Project Number: UWRWE-A3172-ABN
 Project Manager: Paul Henchan

Reported:
 08/24/23 10:31

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 BGH0460 - EPA 3050B

Matrix Spike (BGH0460-MS1)

Source: 2306321-01RE1 Prepared: 08/11/23 Analyzed: 08/12/23

Arsenic	8.33	0.200	mg/kg wet	40.0	0.629	19.3	75-125				QM-01
Barium	72.9	0.400	"	40.0	25.0	120	75-125				
Cadmium	2.27	0.200	"	2.00	0.288	98.9	75-125				
Copper	11.5	0.400	"	40.0	3.79	19.2	75-125				QM-01
Lead	33.3	0.200	"	20.0	14.9	92.2	75-125				
Nickel	10.2	0.400	"	40.0	2.35	19.7	75-125				QM-01
Silver	1.91	0.0200	"	2.00	0.0360	93.7	75-125				
Zinc	23.8	0.400	"	40.0	14.1	24.2	75-125				QM-01

Matrix Spike Dup (BGH0460-MSD1)

Source: 2306321-01RE1 Prepared: 08/11/23 Analyzed: 08/12/23

Arsenic	8.45	0.200	mg/kg wet	40.0	0.629	19.6	75-125	1.41	25		QM-01
Barium	77.8	0.400	"	40.0	25.0	132	75-125	6.46	25		QM-01
Cadmium	2.45	0.200	"	2.00	0.288	108	75-125	7.77	25		
Copper	11.5	0.400	"	40.0	3.79	19.3	75-125	0.362	25		QM-01
Lead	34.7	0.200	"	20.0	14.9	99.0	75-125	4.01	25		
Nickel	10.2	0.400	"	40.0	2.35	19.7	75-125	0.0117	25		QM-01
Silver	2.03	0.0200	"	2.00	0.0360	99.6	75-125	6.03	25		
Zinc	23.9	0.400	"	40.0	14.1	24.5	75-125	0.435	25		QM-01

Summit Scientific

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Project: Noble - Jepsen 23-2
 Project Number: UWRWE-A3172-ABN
 Project Manager: Paul Henchan

Reported:
 08/24/23 10:31

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGH0462 - 3060A Mod

Blank (BGH0462-BLK1)

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0462-BS1)

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent 25.8 0.30 mg/kg wet 25.0 103 80-120

Duplicate (BGH0462-DUP1)

Source: 2308038-08

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0462-MS1)

Source: 2308038-08

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent 31.6 0.30 mg/kg dry 31.2 ND 101 75-125

Matrix Spike Dup (BGH0462-MSD1)

Source: 2308038-08

Prepared & Analyzed: 08/11/23

Chromium, Hexavalent 32.6 0.30 mg/kg dry 31.2 ND 104 75-125 2.92 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
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Project: Noble - Jepsen 23-2
 Project Number: UWRWE-A3172-ABN
 Project Manager: Paul Henchan

Reported:
 08/24/23 10:31

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 BGH0553 - General Preparation

Blank (BGH0553-BLK1)

Prepared: 08/14/23 Analyzed: 08/16/23


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

LCS (BGH0553-BS1)

Prepared: 08/14/23 Analyzed: 08/16/23

Calcium	5.73	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	6.29	0.0500	"	5.00		126	70-130			
Sodium	6.29	0.0500	"	5.00		126	70-130			

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen 23-2

Project Number: UWRWE-A3172-ABN
 Project Manager: Paul Henchan

Reported:
 08/24/23 10:31

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

Summit Scientific

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

Batch BGH0525 - General Preparation


Duplicate (BGH0525-DUP1)

Source: 2308039-07

Prepared & Analyzed: 08/14/23

% Solids	87.9		%		91.2			3.62		20	
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Summit Scientific



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 Project Manager: Paul Henchan

Reported:
 08/24/23 10:31

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 BGH0651 - General Preparation

Blank (BGH0651-BLK1)

Prepared & Analyzed: 08/16/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0651-BS1)

Prepared & Analyzed: 08/16/23

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

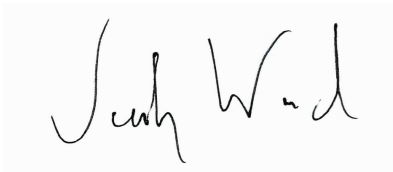
Duplicate (BGH0651-DUP1)

Source: 2308203-01

Prepared & Analyzed: 08/16/23

Specific Conductance (EC) 0.258 0.0100 mmhos/cm 0.258 0.0775 20

Summit Scientific



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Project Number: UWRWE-A3172-ABN
 Project Manager: Paul Henchan

Reported:
 08/24/23 10:31

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 BGH0650 - General Preparation

LCS (BGH0650-BS1)

Prepared & Analyzed: 08/16/23

pH	8.95	pH Units	9.18	97.5	95-105
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Duplicate (BGH0650-DUP1)

Source: 2308203-01

Prepared & Analyzed: 08/16/23

pH	7.65	pH Units	7.65	0.00	20
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Summit Scientific

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Fremont Environmental
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Project: Noble - Jepsen 23-2

Project Number: UWRWE-A3172-ABN
Project Manager: Paul Henchan

Reported:
08/24/23 10:31

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- 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