

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 23, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Ocoma C17-15  
Work Order #2409200

Enclosed are the results of analyses for samples received by Summit Scientific on 09/13/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ocoma C17-15

Project Number: UWRWE-A2638-ABN

Project Manager: Paul Henchan

**Reported:**  
09/23/24 08:43

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3FT	2409200-01	Soil	09/10/24 00:00	09/13/24 16:30
FL02 3FT	2409200-02	Soil	09/10/24 00:00	09/13/24 16:30

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2409200	

Client: Fremont Environmental, Inc.	Project Manager: Henehan	Send Data To:	Send Invoice To:
Address: 8305 6th St.,	E-Mail: Chevron Dist. List, PDC Dist. List, Civitas Dist. List, Fremont Dist. List	Company: Chevron	Project Name/Location:
City/State/Zip: Wellington, CO, 80549	reports@fremontenv.com, ethanb@fremontenv.com, paulh@fremontenv.com	AFE#:	PO/Billing Codes: UWRWE-A2638-A13N
Phone: 603-477-6907	Project Name: Noble - Ocoma C17-15	Contact: Mike Mantala	
Sampler Name: Ethan Black	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, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron		Metals (Table 915-1)
1	FLO1 3FT	9/10/24		2			X											
2	FLO2 3FT	I		1			X											
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <i>Ethan Black</i>	Date/Time: 9/13/24 1430	Received by: S2 - North Office	Date/Time: 9/13/24 1430	TAT Business Days	Field DO	Notes:
Relinquished by: <i>S2</i>	Date/Time: 9/13/24 1630	Received by: <i>[Signature]</i>	Date/Time: 9/13/24 1630	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 7.9	Corrected Temperature: 0	IR gun #:	HNO3 lot #:	Standard	Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2409200

Client: Fremont Client Project ID: Noble-Scama C17-15

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? <sup>(1)</sup> 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Answer
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS  
Custodian Printed Name

9/13/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ocoma C17-15  
Project Number: UWRWE-A2638-ABN  
Project Manager: Paul Henchan

**Reported:**  
09/23/24 08:43

**FL01 3FT**  
**2409200-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHI0471	09/15/24	09/15/24	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: **09/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0498	124 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHI0468	09/15/24	09/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.70	77.6 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**2409200-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHI0475	09/16/24	09/17/24	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: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0136	40.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHI0493	09/16/24	09/19/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Ocoma C17-15  
Project Number: UWRWE-A2638-ABN  
Project Manager: Paul Henchan

**Reported:**  
09/23/24 08:43

**FL01 3FT**  
**2409200-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.908	0.200	mg/kg dry	1	BHI0483	09/16/24	09/18/24	EPA 6020B
Barium	156	0.400	"	"	"	"	"	"
Cadmium	0.225	0.200	"	"	"	"	"	"
Copper	3.07	0.400	"	"	"	"	"	"
Lead	28.0	0.200	"	"	"	"	"	"
Nickel	2.12	0.400	"	"	"	"	"	"
Silver	0.0400	0.0200	"	"	"	"	"	"
Zinc	13.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0499	09/16/24	09/16/24	EPA 7196A	

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

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.4	0.0500	mg/L dry	1	BHI0565	09/17/24	09/19/24	EPA 6020B	
Magnesium	7.52	0.0500	"	"	"	"	"	"	
Sodium	3.97	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.136	0.00100	units	1	BHI0688	09/20/24	09/20/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Project Number: UWRWE-A2638-ABN  
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**Reported:**  
 09/23/24 08:43

**FL01 3FT**  
**2409200-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	88.9	%	1	BHI0497	09/16/24	09/18/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.162	0.0100	mmhos/cm	1	BHI0616	09/18/24	09/19/24	EPA 120.1	

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

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHI0617	09/18/24	09/19/24	EPA 9045D	

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Project: Noble - Ocoma C17-15  
Project Number: UWRWE-A2638-ABN  
Project Manager: Paul Henchan

**Reported:**  
09/23/24 08:43

**FL02 3FT**  
**2409200-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHI0471	09/15/24	09/16/24	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: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0418	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHI0468	09/15/24	09/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.1	88.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Ocoma C17-15  
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**Reported:**  
09/23/24 08:43

**FL02 3FT**  
**2409200-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHI0475	09/16/24	09/17/24	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: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0178	53.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0136	40.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHI0493	09/16/24	09/19/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Ocoma C17-15  
Project Number: UWRWE-A2638-ABN  
Project Manager: Paul Henchan

**Reported:**  
09/23/24 08:43

**FL02 3FT**  
**2409200-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.595	0.181	mg/kg dry	1	BHI0483	09/16/24	09/18/24	EPA 6020B	
Barium	34.7	0.362	"	"	"	"	"	"	
Cadmium	ND	0.181	"	"	"	"	"	"	
Copper	1.01	0.362	"	"	"	"	"	"	
Lead	3.10	0.181	"	"	"	"	"	"	
Nickel	1.37	0.362	"	"	"	"	"	"	
Silver	0.0188	0.0181	"	"	"	"	"	"	
Zinc	4.98	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0499	09/16/24	09/16/24	EPA 7196A	

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

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.4	0.0500	mg/L dry	1	BHI0565	09/17/24	09/19/24	EPA 6020B	
Magnesium	3.30	0.0500	"	"	"	"	"	"	
Sodium	64.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.30	0.00100	units	1	BHI0688	09/20/24	09/20/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Ocoma C17-15  
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**Reported:**  
 09/23/24 08:43

**FL02 3FT**  
**2409200-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.5		%	1	BHI0497	09/16/24	09/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.945	0.0100	mmhos/cm	1	BHI0616	09/18/24	09/19/24	EPA 120.1	

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

Date Sampled: **09/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.51		pH Units	1	BHI0617	09/18/24	09/19/24	EPA 9045D	

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09/23/24 08:43

### 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 BHI0471 - EPA 5030 Soil MS

##### Blank (BHI0471-BLK1)

Prepared & Analyzed: 09/15/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.1	50-150			

##### LCS (BHI0471-BS1)

Prepared & Analyzed: 09/15/24

Benzene	0.0970	0.0020	mg/kg	0.100		97.0	70-130			
Toluene	0.0952	0.0050	"	0.100		95.2	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.193	0.010	"	0.200		96.6	70-130			
o-Xylene	0.0942	0.0050	"	0.100		94.2	70-130			
1,2,4-Trimethylbenzene	0.0954	0.0050	"	0.100		95.4	70-130			
1,3,5-Trimethylbenzene	0.0978	0.0050	"	0.100		97.8	70-130			
Naphthalene	0.0844	0.0038	"	0.100		84.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

##### Matrix Spike (BHI0471-MS1)

Source: 2409176-01

Prepared & Analyzed: 09/15/24

Benzene	0.0939	0.0020	mg/kg	0.100	ND	93.9	70-130			
Toluene	0.0892	0.0050	"	0.100	ND	89.2	70-130			
Ethylbenzene	0.0884	0.0050	"	0.100	ND	88.4	70-130			
m,p-Xylene	0.168	0.010	"	0.200	ND	84.0	70-130			
o-Xylene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
1,2,4-Trimethylbenzene	0.0770	0.0050	"	0.100	ND	77.0	70-130			
1,3,5-Trimethylbenzene	0.0786	0.0050	"	0.100	ND	78.6	70-130			
Naphthalene	0.0926	0.0038	"	0.100	ND	92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0443		"	0.0400		111	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ocoma C17-15  
 Project Number: UWRWE-A2638-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 09/23/24 08:43

**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 BHI0471 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BHI0471-MSD1)</b>	<b>Source: 2409176-01</b>			<b>Prepared &amp; Analyzed: 09/15/24</b>						
Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130	13.1	30	
Toluene	0.101	0.0050	"	0.100	ND	101	70-130	12.8	30	
Ethylbenzene	0.0960	0.0050	"	0.100	ND	96.0	70-130	8.17	30	
m,p-Xylene	0.179	0.010	"	0.200	ND	89.4	70-130	6.23	30	
o-Xylene	0.0872	0.0050	"	0.100	ND	87.2	70-130	4.94	30	
1,2,4-Trimethylbenzene	0.0808	0.0050	"	0.100	ND	80.8	70-130	4.83	30	
1,3,5-Trimethylbenzene	0.0830	0.0050	"	0.100	ND	83.0	70-130	5.42	30	
Naphthalene	0.0938	0.0038	"	0.100	ND	93.8	70-130	1.22	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0519</i>		<i>"</i>	<i>0.0400</i>		<i>130</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0409</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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Project: Noble - Ocoma C17-15  
 Project Number: UWRWE-A2638-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 09/23/24 08:43

**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 BHI0468 - EPA 3550A**

**Blank (BHI0468-BLK1)**

Prepared & Analyzed: 09/15/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.6		"	12.5		109	30-150				

**LCS (BHI0468-BS1)**

Prepared & Analyzed: 09/15/24

C10-C28 (DRO)	528	50	mg/kg	500		106	70-130				
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		105	30-150				

**Matrix Spike (BHI0468-MS1)**

Source: 2409176-01

Prepared & Analyzed: 09/15/24

C10-C28 (DRO)	509	50	mg/kg	500	ND	102	70-130				
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.5		103	30-150				

**Matrix Spike Dup (BHI0468-MSD1)**

Source: 2409176-01

Prepared & Analyzed: 09/15/24

C10-C28 (DRO)	425	50	mg/kg	500	ND	85.1	70-130	17.9	20		
Surrogate: <i>o</i> -Terphenyl	14.1		"	12.5		113	30-150				

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Project: Noble - Ocoma C17-15  
Project Number: UWRWE-A2638-ABN  
Project Manager: Paul Henchan

**Reported:**  
09/23/24 08:43

**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 BHI0475 - EPA 5030 Soil MS**

**Blank (BHI0475-BLK1)**

Prepared & Analyzed: 09/16/24

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>0.0286</i>		<i>"</i>	<i>0.0333</i>		<i>85.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0312</i>		<i>"</i>	<i>0.0333</i>		<i>93.6</i>	<i>40-150</i>			

**LCS (BHI0475-BS1)**

Prepared & Analyzed: 09/16/24

Acenaphthene	0.0238	0.00500	mg/kg	0.0333	71.5	31-137				
Anthracene	0.0230	0.00500	"	0.0333	69.1	30-120				
Benzo (a) anthracene	0.0247	0.00500	"	0.0333	74.0	30-120				
Benzo (a) pyrene	0.0223	0.00500	"	0.0333	66.8	30-120				
Benzo (b) fluoranthene	0.0228	0.00500	"	0.0333	68.5	30-120				
Benzo (k) fluoranthene	0.0233	0.00500	"	0.0333	69.8	30-120				
Chrysene	0.0243	0.00500	"	0.0333	73.0	30-120				
Dibenz (a,h) anthracene	0.0238	0.00500	"	0.0333	71.4	30-120				
Fluoranthene	0.0242	0.00500	"	0.0333	72.7	30-120				
Fluorene	0.0241	0.00500	"	0.0333	72.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0151	0.00500	"	0.0333	45.4	30-120				
Pyrene	0.0247	0.00500	"	0.0333	74.1	35-142				
1-Methylnaphthalene	0.0250	0.00500	"	0.0333	75.1	35-142				
2-Methylnaphthalene	0.0240	0.00500	"	0.0333	71.9	35-142				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0236</i>		<i>"</i>	<i>0.0333</i>	<i>70.8</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0260</i>		<i>"</i>	<i>0.0333</i>	<i>78.1</i>	<i>40-150</i>				

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Ocoma C17-15  
Project Number: UWRWE-A2638-ABN  
Project Manager: Paul Henchan

**Reported:**  
09/23/24 08:43

**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 BHI0475 - EPA 5030 Soil MS**

<b>Matrix Spike (BHI0475-MS1)</b>	<b>Source: 2409193-14</b>			<b>Prepared &amp; Analyzed: 09/16/24</b>								
Acenaphthene	0.0260	0.00500	mg/kg	0.0333	ND	77.9	31-137					
Anthracene	0.0247	0.00500	"	0.0333	ND	74.0	30-120					
Benzo (a) anthracene	0.0310	0.00500	"	0.0333	ND	93.0	30-120					
Benzo (a) pyrene	0.0232	0.00500	"	0.0333	ND	69.7	30-120					
Benzo (b) fluoranthene	0.0395	0.00500	"	0.0333	ND	119	30-120					
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333	ND	90.2	30-120					
Chrysene	0.0339	0.00500	"	0.0333	ND	102	30-120					
Dibenz (a,h) anthracene	0.0159	0.00500	"	0.0333	ND	47.6	30-120					
Fluoranthene	0.0223	0.00500	"	0.0333	ND	66.9	30-120					
Fluorene	0.0389	0.00500	"	0.0333	0.0100	86.5	30-120					
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333	ND	54.0	30-120					
Pyrene	0.0678	0.00500	"	0.0333	0.0128	165	35-142					QM-01
1-Methylnaphthalene	0.0479	0.00500	"	0.0333	0.0245	70.0	15-130					
2-Methylnaphthalene	0.0406	0.00500	"	0.0333	0.0139	80.1	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0272</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>81.5</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0216</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>64.7</i>	<i>40-150</i>					

<b>Matrix Spike Dup (BHI0475-MSD1)</b>	<b>Source: 2409193-14</b>			<b>Prepared &amp; Analyzed: 09/16/24</b>								
Acenaphthene	0.0248	0.00500	mg/kg	0.0333	ND	74.4	31-137	4.60	30			
Anthracene	0.0238	0.00500	"	0.0333	ND	71.4	30-120	3.47	30			
Benzo (a) anthracene	0.0293	0.00500	"	0.0333	ND	87.8	30-120	5.66	30			
Benzo (a) pyrene	0.0228	0.00500	"	0.0333	ND	68.3	30-120	2.17	30			
Benzo (b) fluoranthene	0.0398	0.00500	"	0.0333	ND	119	30-120	0.697	30			
Benzo (k) fluoranthene	0.0291	0.00500	"	0.0333	ND	87.2	30-120	3.42	30			
Chrysene	0.0325	0.00500	"	0.0333	ND	97.4	30-120	4.43	30			
Dibenz (a,h) anthracene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	21.5	30			
Fluoranthene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	11.4	30			
Fluorene	0.0380	0.00500	"	0.0333	0.0100	83.8	30-120	2.37	30			
Indeno (1,2,3-cd) pyrene	0.0222	0.00500	"	0.0333	ND	66.7	30-120	21.0	30			
Pyrene	0.0702	0.00500	"	0.0333	0.0128	172	35-142	3.45	30			QM-01
1-Methylnaphthalene	0.0493	0.00500	"	0.0333	0.0245	74.4	15-130	2.98	50			
2-Methylnaphthalene	0.0404	0.00500	"	0.0333	0.0139	79.5	15-130	0.552	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0263</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>78.9</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0185</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>55.6</i>	<i>40-150</i>					

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ocoma C17-15  
 Project Number: UWRWE-A2638-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 09/23/24 08:43

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

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

**Batch BHI0493 - EPA 3050B**

**Blank (BHI0493-BLK1)**

Prepared: 09/16/24 Analyzed: 09/18/24

Boron ND 2.00 mg/L

**LCS (BHI0493-BS1)**

Prepared: 09/16/24 Analyzed: 09/18/24

Boron 4.90 2.00 mg/L 5.00 98.0 80-120

**Duplicate (BHI0493-DUP1)**

Source: 2409194-01

Prepared: 09/16/24 Analyzed: 09/18/24

Boron 1.13 2.00 mg/L 1.14 0.592 20

**Matrix Spike (BHI0493-MS1)**

Source: 2409194-01

Prepared: 09/16/24 Analyzed: 09/18/24

Boron 6.24 2.00 mg/L 5.00 1.14 102 75-125

**Matrix Spike Dup (BHI0493-MSD1)**

Source: 2409194-01

Prepared: 09/16/24 Analyzed: 09/18/24

Boron 6.56 2.00 mg/L 5.00 1.14 108 75-125 5.03 25

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Project: Noble - Ocoma C17-15  
Project Number: UWRWE-A2638-ABN  
Project Manager: Paul Henchan

**Reported:**  
09/23/24 08:43

**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 BHI0483 - EPA 3050B**

**Blank (BHI0483-BLK1)**

Prepared: 09/16/24 Analyzed: 09/18/24

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 (BHI0483-BS1)**

Prepared: 09/16/24 Analyzed: 09/19/24

Arsenic	39.2	0.200	mg/kg wet	37.9	103	80-120
Barium	38.5	0.400	"	37.9	102	80-120
Cadmium	1.90	0.200	"	1.89	100	80-120
Copper	39.1	0.400	"	37.9	103	80-120
Lead	19.7	0.200	"	18.9	104	80-120
Nickel	38.8	0.400	"	37.9	103	80-120
Silver	1.95	0.0200	"	1.89	103	80-120
Zinc	39.0	0.400	"	37.9	103	80-120
Selenium	3.66	0.260	"	3.79	96.5	80-120

**Duplicate (BHI0483-DUP1)**

Source: 2409193-01

Prepared: 09/16/24 Analyzed: 09/18/24

Arsenic	0.838	0.200	mg/kg dry	0.728	14.1	20	
Barium	26.2	0.400	"	21.4	19.9	20	
Cadmium	0.0147	0.200	"	0.0192	26.2	20	QR-01
Copper	1.27	0.400	"	1.49	16.4	20	
Lead	4.07	0.200	"	5.28	25.9	20	QR-04
Nickel	1.68	0.400	"	1.90	12.1	20	
Silver	0.421	0.0200	"	0.552	27.0	20	QR-04
Zinc	10.3	0.400	"	10.2	0.188	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Ocoma C17-15  
Project Number: UWRWE-A2638-ABN  
Project Manager: Paul Henchan

**Reported:**  
09/23/24 08:43

**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 BHI0483 - EPA 3050B**

<b>Matrix Spike (BHI0483-MS1)</b>	<b>Source: 2409193-01</b>			Prepared: 09/16/24		Analyzed: 09/18/24					
Arsenic	18.0	0.200	mg/kg dry	46.4	0.728	37.3	75-125				QM-05
Barium	76.9	0.400	"	46.4	21.4	120	75-125				
Cadmium	2.20	0.200	"	2.32	0.0192	94.0	75-125				
Copper	18.7	0.400	"	46.4	1.49	37.1	75-125				QM-05
Lead	26.1	0.200	"	23.2	5.28	89.5	75-125				
Nickel	19.0	0.400	"	46.4	1.90	36.9	75-125				QM-05
Silver	2.53	0.0200	"	2.32	0.552	85.4	75-125				
Zinc	25.5	0.400	"	46.4	10.2	32.8	75-125				QM-05
Selenium	4.94	0.260	"	4.64	ND	106	75-125				

<b>Matrix Spike Dup (BHI0483-MSD1)</b>	<b>Source: 2409193-01</b>			Prepared: 09/16/24		Analyzed: 09/18/24					
Arsenic	19.4	0.200	mg/kg dry	46.8	0.728	39.9	75-125	7.36	25		QM-05
Barium	69.2	0.400	"	46.8	21.4	102	75-125	10.5	25		
Cadmium	2.33	0.200	"	2.34	0.0192	98.7	75-125	5.62	25		
Copper	20.0	0.400	"	46.8	1.49	39.6	75-125	6.62	25		QM-05
Lead	26.9	0.200	"	23.4	5.28	92.4	75-125	3.16	25		
Nickel	20.3	0.400	"	46.8	1.90	39.4	75-125	6.62	25		QM-05
Silver	2.61	0.0200	"	2.34	0.552	88.0	75-125	2.98	25		
Zinc	27.6	0.400	"	46.8	10.2	37.0	75-125	7.95	25		QM-05
Selenium	5.12	0.260	"	4.68	ND	110	75-125	3.70	25		

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Project: Noble - Ocoma C17-15  
 Project Number: UWRWE-A2638-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 09/23/24 08:43

**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 BHI0499 - 3060A Mod**

**Blank (BHI0499-BLK1)**

Prepared & Analyzed: 09/16/24

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BHI0499-BS1)**

Prepared & Analyzed: 09/16/24

Chromium, Hexavalent      26.8      0.30 mg/kg wet      25.0      107      80-120

**Duplicate (BHI0499-DUP1)**

**Source: 2409101-01**

Prepared & Analyzed: 09/16/24

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BHI0499-MS1)**

**Source: 2409101-01**

Prepared & Analyzed: 09/16/24

Chromium, Hexavalent      30.3      0.30 mg/kg dry      29.6      ND      102      75-125

**Matrix Spike Dup (BHI0499-MSD1)**

**Source: 2409101-01**

Prepared & Analyzed: 09/16/24

Chromium, Hexavalent      30.0      0.30 mg/kg dry      29.6      ND      101      75-125      0.786      20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ocoma C17-15  
 Project Number: UWRWE-A2638-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 09/23/24 08:43

**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 BHI0565 - General Preparation**

**Blank (BHI0565-BLK1)**

Prepared: 09/17/24 Analyzed: 09/19/24

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

**LCS (BHI0565-BS1)**

Prepared: 09/17/24 Analyzed: 09/19/24

Calcium	5.77	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.15	0.0500	"	5.00		103	70-130			
Sodium	5.22	0.0500	"	5.00		104	70-130			

Summit Scientific

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Project: Noble - Ocoma C17-15  
 Project Number: UWRWE-A2638-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 09/23/24 08:43

**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 BHI0497 - General Preparation**

**Duplicate (BHI0497-DUP1)**

**Source: 2409194-01**

Prepared: 09/16/24 Analyzed: 09/18/24

% Solids	91.9		%		91.3			0.758	20	
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Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ocoma C17-15  
 Project Number: UWRWE-A2638-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 09/23/24 08:43

**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 BHI0616 - General Preparation**

**Blank (BHI0616-BLK1)**

Prepared: 09/18/24 Analyzed: 09/19/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHI0616-BS1)**

Prepared: 09/18/24 Analyzed: 09/19/24

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

**Duplicate (BHI0616-DUP1)**

Source: 2409199-01

Prepared: 09/18/24 Analyzed: 09/19/24

Specific Conductance (EC) 0.120 0.0100 mmhos/cm 0.120 0.00 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ocoma C17-15

Project Number: UWRWE-A2638-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 09/23/24 08:43

**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 BHI0617 - General Preparation**

**LCS (BHI0617-BS1)**

Prepared: 09/18/24 Analyzed: 09/19/24

pH	9.11	pH Units	9.18	99.2	95-105
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**Duplicate (BHI0617-DUP1)**

Source: 2409199-01

Prepared: 09/18/24 Analyzed: 09/19/24

pH	8.43	pH Units	8.47	0.473	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ocoma C17-15  
Project Number: UWRWE-A2638-ABN  
Project Manager: Paul Henchan

**Reported:**  
09/23/24 08:43

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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