

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 21, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Wells Ranch USX AE T6N-R62W-S29 L02

Work Order #2410202

Enclosed are the results of analyses for samples received by Summit Scientific on 10/11/24 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 fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST09 - 0.5ft	2410202-01	Soil	10/10/24 00:00	10/11/24 16:30
AST10 - 0.5ft	2410202-02	Soil	10/10/24 00:00	10/11/24 16:30
AST11 - 0.5ft	2410202-03	Soil	10/10/24 00:00	10/11/24 16:30
AST12 - 0.5ft	2410202-04	Soil	10/10/24 00:00	10/11/24 16:30
AST13 - 0.5ft	2410202-05	Soil	10/10/24 00:00	10/11/24 16:30
AST14 - 0.5ft	2410202-06	Soil	10/10/24 00:00	10/11/24 16:30
AST15 - 0.5ft	2410202-07	Soil	10/10/24 00:00	10/11/24 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
2410202	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip:		AFE#:	
Phone: 303-261-6246	Project Name: Wells Ranch ASX AE TUN-R62W-529	PO/Billing Codes: WWRWE-A4187-ABN	
Sampler Name: Stanley Gilbert	Project Number:	Contact: Mike Montoya	

				Preservative				Matrix		Analysis Requested										Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD	
1	AST09-0.5Ft	10/10/24		2			X			X			X	X	X	X	X			
2	AST10-0.5Ft																			
3	AST11-0.5Ft																			
4	AST12-0.5Ft																			
5	AST13-0.5Ft																			
6	AST14-0.5Ft																			
7	AST15-0.5Ft																			
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time: 10/10/24 17:30	Received by: Summit North	Date/Time: 10/10/24 17:30	TAT Business Days	Field DO	Notes:
Relinquished by: 52	Date/Time: 10/11/24 1630	Received by:	Date/Time: 10/11/24 1630	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 0.1	Corrected Temperature:	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2410202Client: TremontClient Project ID: Wells Ranch USX AE T6N-R62W-529 ¹⁰²Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #:

☐ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	once
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

SN
Custodian Printed Name

10/11/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST09 - 0.5ft
2410202-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0501	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0503	10/14/24	10/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.49	75.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2410202-01 (Soil)

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PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0460	10/14/24	10/14/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0215	64.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0229	68.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST09 - 0.5ft
2410202-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.85	0.200	mg/kg dry	1	BHJ0723	10/17/24	10/19/24	EPA 6020B
Barium	42.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.52	0.400	"	"	"	"	"	"
Lead	3.21	0.200	"	"	"	"	"	"
Nickel	2.86	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0624	10/16/24	10/16/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.3	0.0500	mg/L dry	1	BHJ0583	10/15/24	10/18/24	EPA 6020B	
Magnesium	24.2	0.0500	"	"	"	"	"	"	
Sodium	23.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.573	0.00100	units	1	BHJ0758	10/18/24	10/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: UWRWE-A4187-ABN
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Reported:
10/21/24 10:15

AST09 - 0.5ft
2410202-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BHJ0572	10/15/24	10/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.01	0.0100	mmhos/cm	1	BHJ0584	10/15/24	10/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BHJ0585	10/15/24	10/16/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST10 - 0.5ft
2410202-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0501	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0433	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0503	10/14/24	10/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.61	76.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2410202-02 (Soil)

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PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0460	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0210	63.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0237	71.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

Reported:
10/21/24 10:15

AST10 - 0.5ft
2410202-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.68	0.200	mg/kg dry	1	BHJ0723	10/17/24	10/19/24	EPA 6020B
Barium	31.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.16	0.400	"	"	"	"	"	"
Lead	2.61	0.200	"	"	"	"	"	"
Nickel	2.62	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.94	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0624	10/16/24	10/16/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.6	0.0500	mg/L dry	1	BHJ0583	10/15/24	10/18/24	EPA 6020B	
Magnesium	20.2	0.0500	"	"	"	"	"	"	
Sodium	30.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.870	0.00100	units	1	BHJ0758	10/18/24	10/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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10/21/24 10:15

AST10 - 0.5ft
2410202-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BHJ0572	10/15/24	10/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.818	0.0100	mmhos/cm	1	BHJ0584	10/15/24	10/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BHJ0585	10/15/24	10/16/24	EPA 9045D	

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Reported:
10/21/24 10:15

AST11 - 0.5ft
2410202-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0501	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0503	10/14/24	10/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.47	67.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST11 - 0.5ft
2410202-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0460	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0231	69.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0250	75.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST11 - 0.5ft
2410202-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.27	0.200	mg/kg dry	1	BHJ0723	10/17/24	10/19/24	EPA 6020B
Barium	34.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.70	0.400	"	"	"	"	"	"
Lead	2.30	0.200	"	"	"	"	"	"
Nickel	2.65	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.36	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0624	10/16/24	10/16/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.5	0.0500	mg/L dry	1	BHJ0583	10/15/24	10/18/24	EPA 6020B	
Magnesium	3.08	0.0500	"	"	"	"	"	"	
Sodium	0.720	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0392	0.00100	units	1	BHJ0758	10/18/24	10/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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PO Box 1289
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Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST11 - 0.5ft
2410202-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BHJ0572	10/15/24	10/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.140	0.0100	mmhos/cm	1	BHJ0584	10/15/24	10/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.84		pH Units	1	BHJ0585	10/15/24	10/16/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST12 - 0.5ft
2410202-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0501	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0417	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0421	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0503	10/14/24	10/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.64	77.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST12 - 0.5ft
2410202-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0460	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	55.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0207	62.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST12 - 0.5ft
2410202-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.23	0.200	mg/kg dry	1	BHJ0723	10/17/24	10/19/24	EPA 6020B
Barium	25.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.57	0.400	"	"	"	"	"	"
Lead	2.15	0.200	"	"	"	"	"	"
Nickel	2.43	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	8.59	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0624	10/16/24	10/16/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.4	0.0500	mg/L dry	1	BHJ0583	10/15/24	10/18/24	EPA 6020B	
Magnesium	3.58	0.0500	"	"	"	"	"	"	
Sodium	0.558	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0284	0.00100	units	1	BHJ0758	10/18/24	10/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST12 - 0.5ft
2410202-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.5		%	1	BHJ0572	10/15/24	10/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.132	0.0100	mmhos/cm	1	BHJ0584	10/15/24	10/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.86		pH Units	1	BHJ0585	10/15/24	10/16/24	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST13 - 0.5ft
2410202-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0501	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0473	118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0503	10/14/24	10/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.23	73.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST13 - 0.5ft
2410202-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0460	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	64.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST13 - 0.5ft
2410202-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.58	0.200	mg/kg dry	1	BHJ0723	10/17/24	10/19/24	EPA 6020B
Barium	32.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.23	0.400	"	"	"	"	"	"
Lead	2.83	0.200	"	"	"	"	"	"
Nickel	2.95	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0624	10/16/24	10/16/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.3	0.0500	mg/L dry	1	BHJ0583	10/15/24	10/18/24	EPA 6020B	
Magnesium	1.91	0.0500	"	"	"	"	"	"	
Sodium	0.269	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0164	0.00100	units	1	BHJ0758	10/18/24	10/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST13 - 0.5ft
2410202-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BHJ0572	10/15/24	10/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.102	0.0100	mmhos/cm	1	BHJ0584	10/15/24	10/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.67		pH Units	1	BHJ0585	10/15/24	10/16/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST14 - 0.5ft
2410202-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0501	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0503	10/14/24	10/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.1	81.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST14 - 0.5ft
2410202-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0460	10/14/24	10/15/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00529	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00613	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00595	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00660	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0177	53.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST14 - 0.5ft
2410202-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.69	0.200	mg/kg dry	1	BHJ0723	10/17/24	10/19/24	EPA 6020B
Barium	29.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.78	0.400	"	"	"	"	"	"
Lead	3.29	0.200	"	"	"	"	"	"
Nickel	2.52	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.15	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0624	10/16/24	10/16/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.1	0.0500	mg/L dry	1	BHJ0583	10/15/24	10/18/24	EPA 6020B	
Magnesium	13.8	0.0500	"	"	"	"	"	"	
Sodium	18.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.620	0.00100	units	1	BHJ0758	10/18/24	10/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST14 - 0.5ft
2410202-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BHJ0572	10/15/24	10/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.560	0.0100	mmhos/cm	1	BHJ0584	10/15/24	10/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHJ0585	10/15/24	10/16/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST15 - 0.5ft
2410202-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0501	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0425	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0503	10/14/24	10/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.80	78.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST15 - 0.5ft
2410202-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0460	10/14/24	10/15/24	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: **10/10/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST15 - 0.5ft
2410202-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.59	0.200	mg/kg dry	1	BHJ0723	10/17/24	10/19/24	EPA 6020B
Barium	28.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.86	0.400	"	"	"	"	"	"
Lead	2.67	0.200	"	"	"	"	"	"
Nickel	2.95	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0624	10/16/24	10/16/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.6	0.0500	mg/L dry	1	BHJ0583	10/15/24	10/18/24	EPA 6020B	
Magnesium	2.60	0.0500	"	"	"	"	"	"	
Sodium	0.0835	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00470	0.00100	units	1	BHJ0758	10/18/24	10/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

AST15 - 0.5ft
2410202-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BHJ0572	10/15/24	10/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0178	0.0100	mmhos/cm	1	BHJ0584	10/15/24	10/16/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.70		pH Units	1	BHJ0585	10/15/24	10/16/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHJ0501 - EPA 5030 Soil MS

Blank (BHJ0501-BLK1)

Prepared & Analyzed: 10/14/24

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	0.0398		"	0.0400		99.5	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

LCS (BHJ0501-BS1)

Prepared & Analyzed: 10/14/24

Benzene	0.0824	0.0020	mg/kg	0.100		82.4	70-130			
Toluene	0.0856	0.0050	"	0.100		85.6	70-130			
Ethylbenzene	0.0886	0.0050	"	0.100		88.6	70-130			
m,p-Xylene	0.173	0.010	"	0.200		86.4	70-130			
o-Xylene	0.0876	0.0050	"	0.100		87.6	70-130			
1,2,4-Trimethylbenzene	0.0874	0.0050	"	0.100		87.4	70-130			
1,3,5-Trimethylbenzene	0.0857	0.0050	"	0.100		85.7	70-130			
Naphthalene	0.0866	0.0038	"	0.100		86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

Matrix Spike (BHJ0501-MS1)

Source: 2410189-01

Prepared & Analyzed: 10/14/24

Benzene	0.0963	0.0020	mg/kg	0.100	ND	96.3	70-130			
Toluene	0.103	0.0050	"	0.100	ND	103	70-130			
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
m,p-Xylene	0.206	0.010	"	0.200	ND	103	70-130			
o-Xylene	0.0991	0.0050	"	0.100	ND	99.1	70-130			
1,2,4-Trimethylbenzene	0.0995	0.0050	"	0.100	ND	99.5	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
Naphthalene	0.0820	0.0038	"	0.100	ND	82.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0382		"	0.0400		95.6	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.7	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

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

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

Batch BHJ0501 - EPA 5030 Soil MS

Matrix Spike Dup (BHJ0501-MSD1)	Source: 2410189-01			Prepared: 10/14/24 Analyzed: 10/15/24						
Benzene	0.0931	0.0020	mg/kg	0.100	ND	93.1	70-130	3.39	30	
Toluene	0.0969	0.0050	"	0.100	ND	96.9	70-130	5.83	30	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	3.03	30	
m,p-Xylene	0.199	0.010	"	0.200	ND	99.6	70-130	3.43	30	
o-Xylene	0.100	0.0050	"	0.100	ND	100	70-130	1.14	30	
1,2,4-Trimethylbenzene	0.0918	0.0050	"	0.100	ND	91.8	70-130	8.00	30	
1,3,5-Trimethylbenzene	0.0922	0.0050	"	0.100	ND	92.2	70-130	9.69	30	
Naphthalene	0.0796	0.0038	"	0.100	ND	79.6	70-130	3.01	30	
Surrogate: 1,2-Dichloroethane-d4	0.0482		"	0.0400		121	50-150			
Surrogate: Toluene-d8	0.0482		"	0.0400		121	50-150			
Surrogate: 4-Bromofluorobenzene	0.0506		"	0.0400		126	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHJ0503 - EPA 3550A

Blank (BHJ0503-BLK1)

Prepared & Analyzed: 10/14/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.5		"	12.5		91.7	30-150			

LCS (BHJ0503-BS1)

Prepared & Analyzed: 10/14/24

C10-C28 (DRO)	485	50	mg/kg	500		97.0	70-130			
Surrogate: o-Terphenyl	11.7		"	12.5		93.8	30-150			

Matrix Spike (BHJ0503-MS1)

Source: 2410189-01

Prepared: 10/14/24 Analyzed: 10/15/24

C10-C28 (DRO)	491	50	mg/kg	500	27.9	92.5	70-130			
Surrogate: o-Terphenyl	10.9		"	12.5		87.5	30-150			

Matrix Spike Dup (BHJ0503-MSD1)

Source: 2410189-01

Prepared: 10/14/24 Analyzed: 10/15/24

C10-C28 (DRO)	442	50	mg/kg	500	27.9	82.8	70-130	10.4	20	
Surrogate: o-Terphenyl	10.5		"	12.5		83.7	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHJ0460 - EPA 5030 Soil MS

Blank (BHJ0460-BLK1)

Prepared & Analyzed: 10/14/24

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	"

Surrogate: 2-Methylnaphthalene-d10	0.0243	"	0.0333	72.8	40-150
Surrogate: Fluoranthene-d10	0.0248	"	0.0333	74.5	40-150

LCS (BHJ0460-BS1)

Prepared & Analyzed: 10/14/24

Acenaphthene	0.0259	0.00500	mg/kg	0.0333	77.6	31-137
Anthracene	0.0276	0.00500	"	0.0333	82.7	30-120
Benzo (a) anthracene	0.0269	0.00500	"	0.0333	80.7	30-120
Benzo (a) pyrene	0.0249	0.00500	"	0.0333	74.8	30-120
Benzo (b) fluoranthene	0.0253	0.00500	"	0.0333	76.0	30-120
Benzo (k) fluoranthene	0.0264	0.00500	"	0.0333	79.3	30-120
Chrysene	0.0277	0.00500	"	0.0333	83.2	30-120
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0333	60.3	30-120
Fluoranthene	0.0257	0.00500	"	0.0333	77.0	30-120
Fluorene	0.0265	0.00500	"	0.0333	79.4	30-120
Indeno (1,2,3-cd) pyrene	0.0256	0.00500	"	0.0333	76.8	30-120
Pyrene	0.0265	0.00500	"	0.0333	79.5	35-142
1-Methylnaphthalene	0.0232	0.00500	"	0.0333	69.6	35-142
2-Methylnaphthalene	0.0248	0.00500	"	0.0333	74.4	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0262	"	0.0333	78.5	40-150
Surrogate: Fluoranthene-d10	0.0274	"	0.0333	82.2	40-150

Summit Scientific

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Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHJ0460 - EPA 5030 Soil MS

Matrix Spike (BHJ0460-MS1)

Source: 2410186-01

Prepared & Analyzed: 10/14/24

Acenaphthene	0.0181	0.00500	mg/kg	0.0333	ND	54.2	31-137		
Anthracene	0.0193	0.00500	"	0.0333	ND	57.9	30-120		
Benzo (a) anthracene	0.0192	0.00500	"	0.0333	ND	57.5	30-120		
Benzo (a) pyrene	0.0168	0.00500	"	0.0333	ND	50.3	30-120		
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.3	30-120		
Benzo (k) fluoranthene	0.0183	0.00500	"	0.0333	ND	55.0	30-120		
Chrysene	0.0190	0.00500	"	0.0333	ND	56.9	30-120		
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.0	30-120		
Fluoranthene	0.0181	0.00500	"	0.0333	ND	54.2	30-120		
Fluorene	0.0192	0.00500	"	0.0333	ND	57.5	30-120		
Indeno (1,2,3-cd) pyrene	0.0168	0.00500	"	0.0333	ND	50.4	30-120		
Pyrene	0.0188	0.00500	"	0.0333	ND	56.5	35-142		
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.7	15-130		
2-Methylnaphthalene	0.0162	0.00500	"	0.0333	ND	48.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0170		"	0.0333		51.0	40-150		
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.3	40-150		

Matrix Spike Dup (BHJ0460-MSD1)

Source: 2410186-01

Prepared & Analyzed: 10/14/24

Acenaphthene	0.0196	0.00500	mg/kg	0.0333	ND	58.8	31-137	8.00	30
Anthracene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	5.20	30
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	3.87	30
Benzo (a) pyrene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	1.35	30
Benzo (b) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	2.19	30
Benzo (k) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.5	30-120	2.82	30
Chrysene	0.0197	0.00500	"	0.0333	ND	59.1	30-120	3.78	30
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	42.8	30-120	4.30	30
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	8.17	30
Fluorene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	5.91	30
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	6.01	30
Pyrene	0.0212	0.00500	"	0.0333	ND	63.5	35-142	11.8	30
1-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.1	15-130	12.9	50
2-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.4	15-130	14.9	50
Surrogate: 2-Methylnaphthalene-d10	0.0197		"	0.0333		59.0	40-150		
Surrogate: Fluoranthene-d10	0.0211		"	0.0333		63.3	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

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

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

Batch BHJ0675 - EPA 3050B

Blank (BHJ0675-BLK1)

Prepared: 10/17/24 Analyzed: 10/18/24

Boron ND 2.00 mg/L

LCS (BHJ0675-BS1)

Prepared: 10/17/24 Analyzed: 10/18/24

Boron 5.31 2.00 mg/L 5.00 106 80-120

Duplicate (BHJ0675-DUP1)

Source: 2410202-01

Prepared: 10/17/24 Analyzed: 10/18/24

Boron 0.365 2.00 mg/L 0.393 7.53 20

Matrix Spike (BHJ0675-MS1)

Source: 2410202-01

Prepared: 10/17/24 Analyzed: 10/18/24

Boron 5.35 2.00 mg/L 5.02 0.393 98.7 75-125

Matrix Spike Dup (BHJ0675-MSD1)

Source: 2410202-01

Prepared: 10/17/24 Analyzed: 10/18/24

Boron 5.69 2.00 mg/L 5.02 0.393 105 75-125 6.19 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0723 - EPA 3050B

Blank (BHJ0723-BLK1)

Prepared: 10/17/24 Analyzed: 10/19/24

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 (BHJ0723-BS1)

Prepared: 10/17/24 Analyzed: 10/19/24

Arsenic	34.4	0.200	mg/kg wet	38.5	89.4	80-120
Barium	33.4	0.400	"	38.5	87.0	80-120
Cadmium	1.66	0.200	"	1.92	86.4	80-120
Copper	39.0	0.400	"	38.5	102	80-120
Lead	16.8	0.200	"	19.2	87.2	80-120
Nickel	38.3	0.400	"	38.5	99.6	80-120
Silver	1.70	0.0200	"	1.92	88.4	80-120
Zinc	38.6	0.400	"	38.5	100	80-120
Selenium	3.45	0.260	"	3.85	89.6	80-120

Duplicate (BHJ0723-DUP1)

Source: 2410197-01

Prepared: 10/17/24 Analyzed: 10/19/24

Arsenic	3.09	0.200	mg/kg dry	3.17	2.50	20
Barium	103	0.400	"	107	4.17	20
Cadmium	0.574	0.200	"	0.580	1.12	20
Copper	8.47	0.400	"	8.19	3.25	20
Lead	17.6	0.200	"	16.5	6.56	20
Nickel	6.62	0.400	"	6.40	3.41	20
Silver	0.0808	0.0200	"	0.0827	2.39	20
Zinc	34.3	0.400	"	33.5	2.42	20
Selenium	0.783	0.260	"	0.628	22.0	20

QR-01

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0723 - EPA 3050B

Matrix Spike (BHJ0723-MS1)			Source: 2410197-01		Prepared: 10/17/24 Analyzed: 10/19/24					
Arsenic	37.8	0.200	mg/kg dry	44.5	3.17	77.8	75-125			
Barium	134	0.400	"	44.5	107	61.4	75-125			QM-05
Cadmium	2.58	0.200	"	2.22	0.580	89.7	75-125			
Copper	28.4	0.400	"	44.5	8.19	45.3	75-125			QM-05
Lead	34.6	0.200	"	22.2	16.5	81.3	75-125			
Nickel	26.7	0.400	"	44.5	6.40	45.5	75-125			QM-05
Silver	2.07	0.0200	"	2.22	0.0827	89.4	75-125			
Zinc	53.9	0.400	"	44.5	33.5	46.0	75-125			QM-05
Selenium	5.07	0.260	"	4.45	0.628	99.8	75-125			

Matrix Spike Dup (BHJ0723-MSD1)			Source: 2410197-01		Prepared: 10/17/24 Analyzed: 10/19/24					
Arsenic	37.0	0.200	mg/kg dry	42.4	3.17	79.9	75-125	1.98	25	
Barium	131	0.400	"	42.4	107	56.9	75-125	2.38	25	QM-05
Cadmium	2.50	0.200	"	2.12	0.580	90.8	75-125	2.83	25	
Copper	26.6	0.400	"	42.4	8.19	43.5	75-125	6.26	25	QM-05
Lead	34.2	0.200	"	21.2	16.5	83.6	75-125	1.04	25	
Nickel	25.1	0.400	"	42.4	6.40	44.2	75-125	5.94	25	QM-05
Silver	1.97	0.0200	"	2.12	0.0827	88.8	75-125	5.27	25	
Zinc	52.4	0.400	"	42.4	33.5	44.6	75-125	2.90	25	QM-05
Selenium	4.60	0.260	"	4.24	0.628	93.8	75-125	9.60	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHJ0624 - 3060A Mod

Blank (BHJ0624-BLK1)

Prepared & Analyzed: 10/16/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHJ0624-BS1)

Prepared & Analyzed: 10/16/24

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BHJ0624-DUP1)

Source: 2410202-01

Prepared & Analyzed: 10/16/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHJ0624-MS1)

Source: 2410202-01

Prepared & Analyzed: 10/16/24

Chromium, Hexavalent 27.1 0.30 mg/kg dry 26.2 ND 104 75-125

Matrix Spike Dup (BHJ0624-MSD1)

Source: 2410202-01

Prepared & Analyzed: 10/16/24

Chromium, Hexavalent 26.7 0.30 mg/kg dry 26.2 ND 102 75-125 1.36 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02
Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BHJ0583 - General Preparation

Blank (BHJ0583-BLK1)

Prepared: 10/15/24 Analyzed: 10/17/24

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

LCS (BHJ0583-BS1)

Prepared: 10/15/24 Analyzed: 10/17/24

Calcium	5.33	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.11	0.0500	"	5.00	102	70-130
Sodium	5.11	0.0500	"	5.00	102	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02	
PO Box 1289	Project Number: UWRWE-A4187-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	10/21/24 10:15

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

Summit Scientific

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

Batch BHJ0572 - General Preparation

Duplicate (BHJ0572-DUP1)	Source: 2410176-91		Prepared: 10/15/24 Analyzed: 10/16/24		
% Solids	97.7	%	96.8	0.889	20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

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

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

Batch BHJ0584 - General Preparation

Blank (BHJ0584-BLK1)

Prepared: 10/15/24 Analyzed: 10/16/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ0584-BS1)

Prepared: 10/15/24 Analyzed: 10/16/24

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

Duplicate (BHJ0584-DUP1)

Source: 2410190-01

Prepared: 10/15/24 Analyzed: 10/16/24

Specific Conductance (EC) 0.116 0.0100 mmhos/cm 0.116 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

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

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

Batch BHJ0585 - General Preparation

LCS (BHJ0585-BS1)

Prepared: 10/15/24 Analyzed: 10/16/24

pH	9.16	pH Units	9.18	99.8	95-105
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Duplicate (BHJ0585-DUP1)

Source: 2410190-01

Prepared: 10/15/24 Analyzed: 10/16/24

pH	8.94	pH Units	9.01	0.780	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE T6N-R62W-S29 L02

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:15

Notes and Definitions

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.
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