

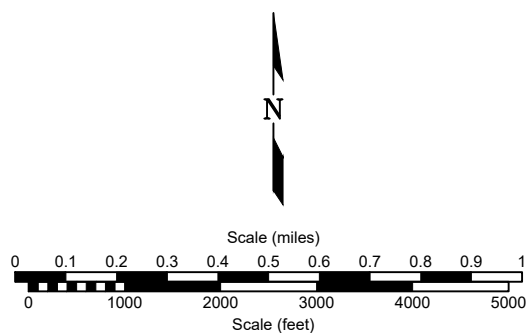
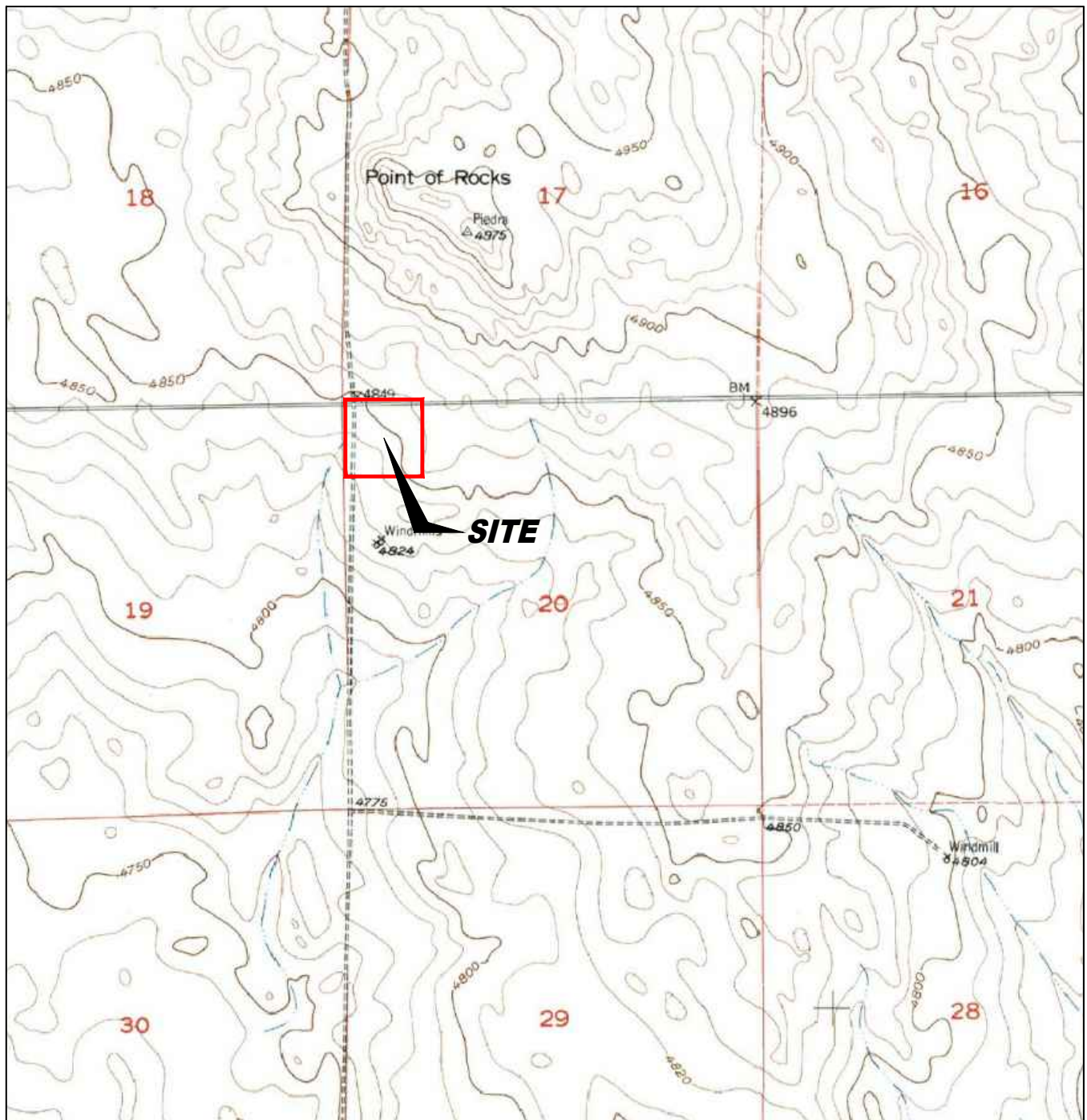
TABLE 1
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
WELLS RANCH AE20 (FLOW LINE), WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-037

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
TP-N 3 Ft	4/7/2022	3	8.08	0.274	0.669	0.178
TP-S 5 Ft	4/7/2022	5	7.65	0.783	2.44	0.357
TP-Mid 4 Ft	4/7/2022	4	8.07	0.368	0.818	0.236
TP-E 2 Ft	4/7/2022	2	8.02	0.452	0.231	0.1
BKG-1 1 Ft	4/7/2022	1	8.3	0.336	1.11	0.535
N. Ex. N Wall 3 Ft	4/13/2022	3	7.64	0.383	0.475	0.059
N. Ex. E Wall 2 Ft	4/13/2022	2	7.71	1.54	1.12	0.109
N. Ex. Mid 2 Ft	4/13/2022	2	7.95	0.23	0.24	0.0913
N. Ex. W Wall 3 Ft	4/13/2022	3	7.95	0.196	0.176	0.072
E Pit N Wall 5 Ft	4/13/2022	5	7.82	1.16	1.95	0.149
E Pit S Wall 5 Ft	4/13/2022	5	8.08	0.355	1.42	0.158
E Pit E Wall 5 Ft	4/13/2022	5	7.92	0.59	1.95	0.155
E Pit W Wall 5 Ft	4/13/2022	5	7.99	0.46	1.83	0.15
E Pit Floor 7 Ft	4/13/2022	7	7.6	0.783	1.76	0.161
W Pit N Wall 5 Ft	4/13/2022	5	7.69	4.13	21.5	1.6
W Pit S Wall 5 Ft	4/13/2022	5	7.79	5.78	48.8	1.27
W Pit E Wall 5 Ft	4/13/2022	5	7.89	2.41	3.54	0.148
W Pit W Wall 5 Ft	4/13/2022	5	7.7	7.35	10.6	0.466
W Pit Floor 7 Ft	4/13/2022	7	7.79	0.868	1.94	0.179
E PIT-N WALL 6FT	04/21/2022	6	8.77	0.211	0.0711	0.215
METER-FLOOR 3FT	04/21/2022	3	8.67	0.175	0.0292	0.2
METER-W WALL 2FT	04/21/2022	2	8.53	0.177	0.0201	0.171
W PIT-W WALL 6FT	04/21/2022	6	8.61	0.354	0.0626	0.235
BKG E-N 6FT	03/01/2023	6	8.09	NA	NA	NA
BKG E-S 6FT	03/01/2023	6	7.89	NA	NA	NA
BKG N 6FT	03/01/2023	6	8.52	NA	NA	NA

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BKG S 6FT	03/01/2023	6	6.21	NA	NA	NA
BKG W 6FT	03/01/2023	6	7.96	NA	NA	NA
BKG-A 3FT	08/08/2024	3	8.81	0.162	0.083	NA
BKG-A 5FT	08/08/2024	5	8.45	0.498	1.19	NA
BKG-A 7FT	08/08/2024	7	8.02	3.11	3.76	NA
BKG-B 3FT	08/08/2024	3	7.33	1.64	1.97	NA
BKG-B 5FT	08/08/2024	5	7.69	1.31	0.551	NA
BKG-B 6FT	08/08/2024	6	8.28	0.62	0.293	NA
BKG-B 7FT	08/08/2024	7	7.41	0.969	2.75	NA
BKG-C 3FT	08/08/2024	3	7.34	0.102	0.0214	NA
BKG-C 5FT	08/08/2024	5	6.02	0.3	0.0372	NA
BKG-C 6FT	08/08/2024	6	6.73	0.428	0.301	NA
BKG-C 7FT	08/08/2024	7	8.12	0.6	0.196	NA
BKG-D 3FT	08/08/2024	3	8.16	0.122	0.104	NA
BKG-D 5FT	08/08/2024	5	8.35	0.19	0.264	NA
BKG-D 6FT	08/08/2024	6	9.2	0.113	0.29	NA
BKG-D 7FT	08/08/2024	7	8.71	0.191	0.419	NA
BKG-E 3FT	08/08/2024	3	8.35	0.654	0.729	NA
BKG-E 5FT	08/08/2024	5	8.85	0.265	0.568	NA
BKG-E 6FT	08/08/2024	6	8.78	0.3	0.532	NA
BKG-E 7FT	08/08/2024	7	8.86	0.283	0.771	NA

Bold faced values exceed the ECMC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)




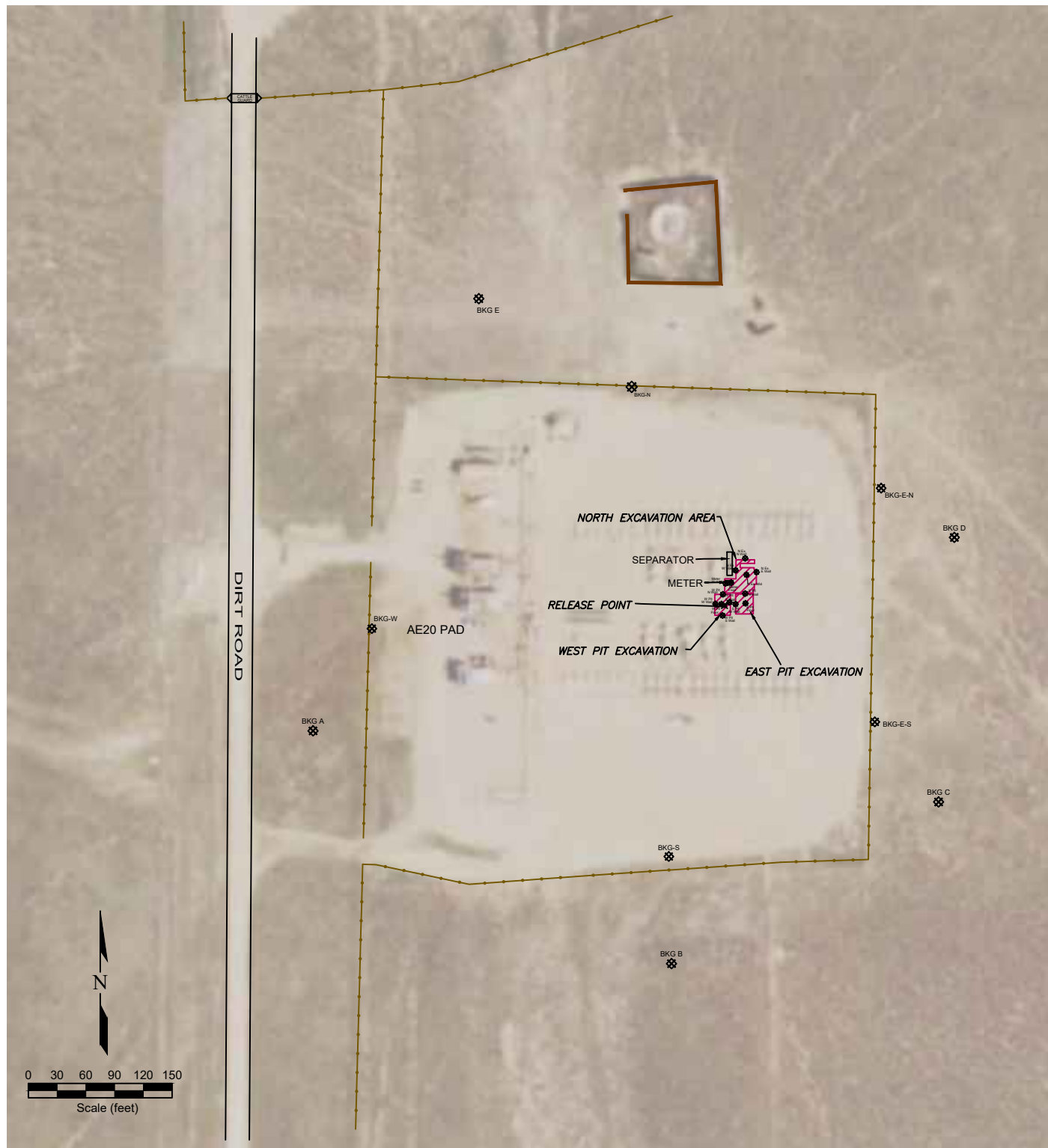
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1

SITE LOCATION MAP

NOBLE ENERGY, INC.
WELLS RANCH AE20 FLOW LINE
 SWNW Sec. 20 T6N, R62W, 6th PM
 Weld County, Colorado
 40.473371°, -104.354575°

Project No. C022-037	Prepared by TA	Drawn by TA	
Date 8/28/24	Reviewed by EB	Filename 22037T	



LEGEND

- | | | |
|----------------------|----------------------|------------------|
| RELEASE POINT | EXCAVATED AREAS | CONTAINMENT WALL |
| SOIL SAMPLE LOCATION | EXTENT OF EXCAVATION | FENCE LINE |

Figure 2
SITE MAP

NOBLE ENERGY, INC.
WELLS RANCH AE20 FLOW LINE
 SWNW Sec. 20 T6N, R62W, 6th PM
 Weld County, Colorado
 40.473371°, -104.354575°

Project No.
C022-037

Prepared by

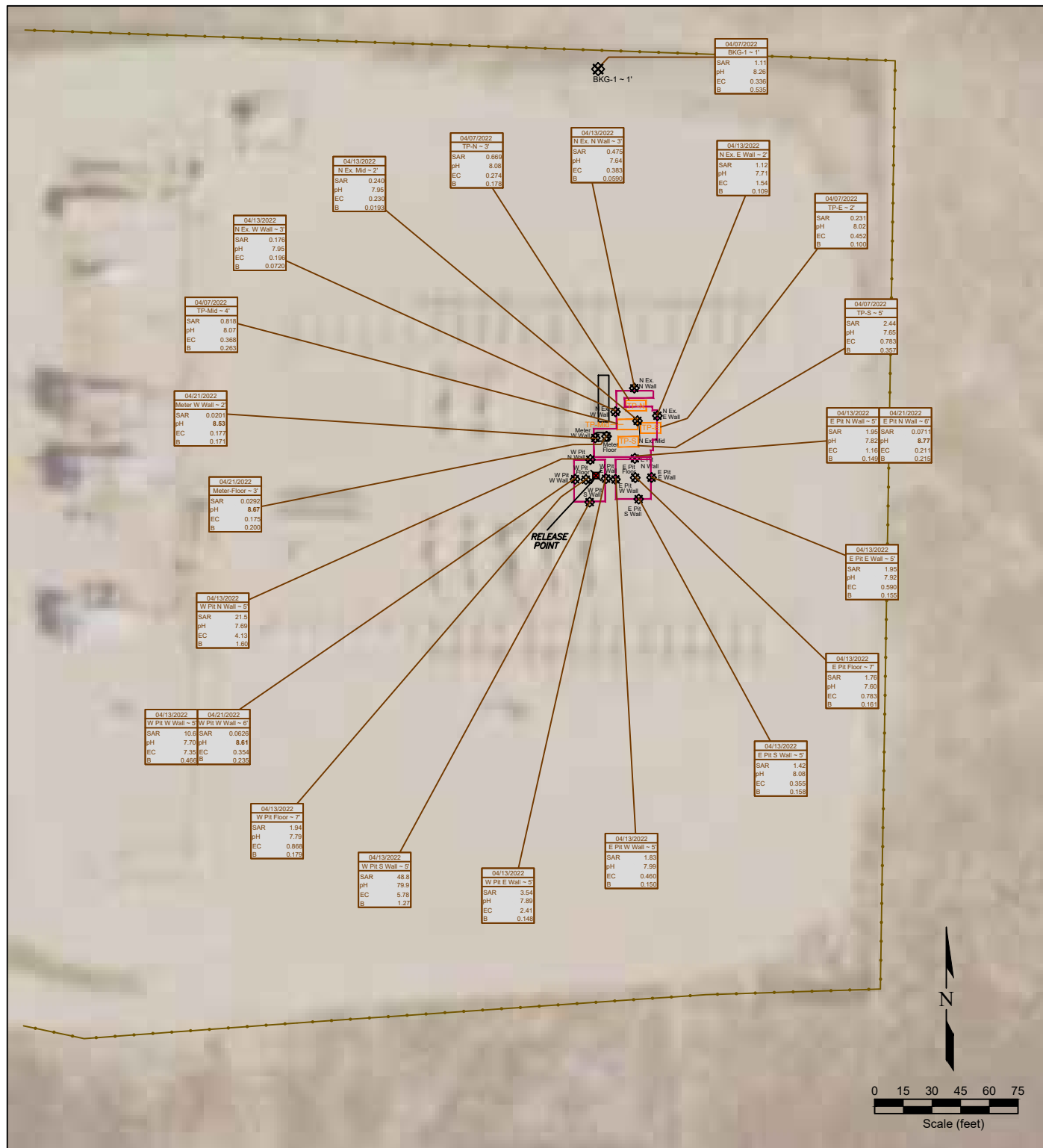
Drawn by
TA

Date
8/28/24

Reviewed by
EB

Filename
22037Q1





DATE SAMPLED	SAMPLE ID & DEPTH (ft)
04/07/2022	TP-N ~ 3'
SAR	0.668
pH	8.08
EC	0.274
B	0.178

Project No.
C022-037

Date
8/28/24

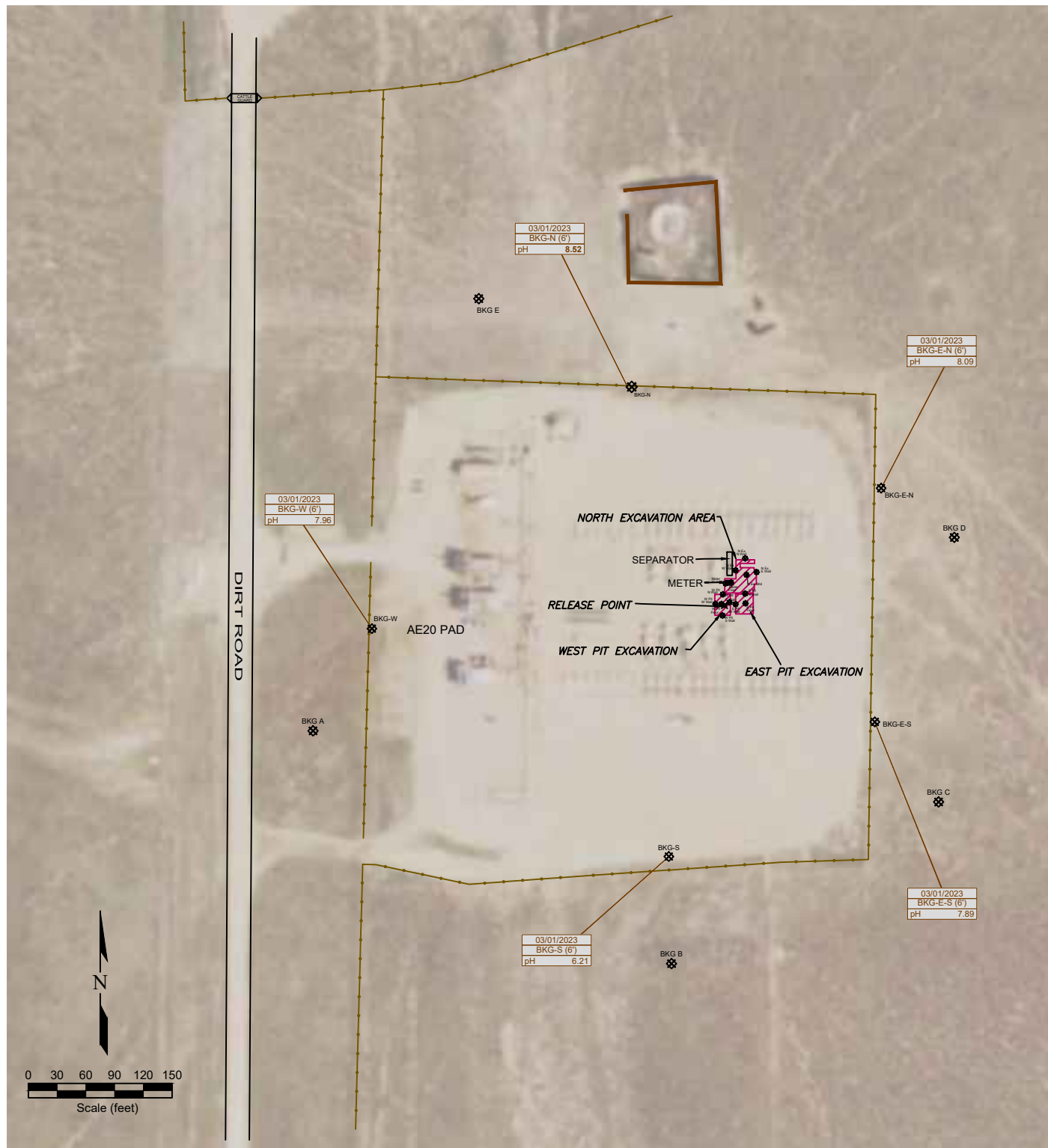
Prepared by
EB

Reviewed by
EB

Drawn by
TA

Filename
20037QQ





LEGEND

✱ RELEASE POINT
✱ SOIL SAMPLE LOCATION

EXCAVATED AREAS
EXTENT OF EXCAVATION

CONTAINMENT WALL
FENCE LINE

03/01/2023 DATE SAMPLED
BKG-W (6') SAMPLE ID & DEPTH (ft)
pH 7.96 pH (pH units)

Figure 4
pH SOIL CHEMISTRY MAP
March 1, 2023
NOBLE ENERGY, INC.
WELLS RANCH AE20 FLOW LINE
SWNW Sec. 20 T6N, R62W, 6th PM
Weld County, Colorado
40.473371°, -104.354575°

Project No.
C022-037

Prepared by
TA

Drawn by
TA

Date
8/28/24

Reviewed by
EB

Filename
22037Q1



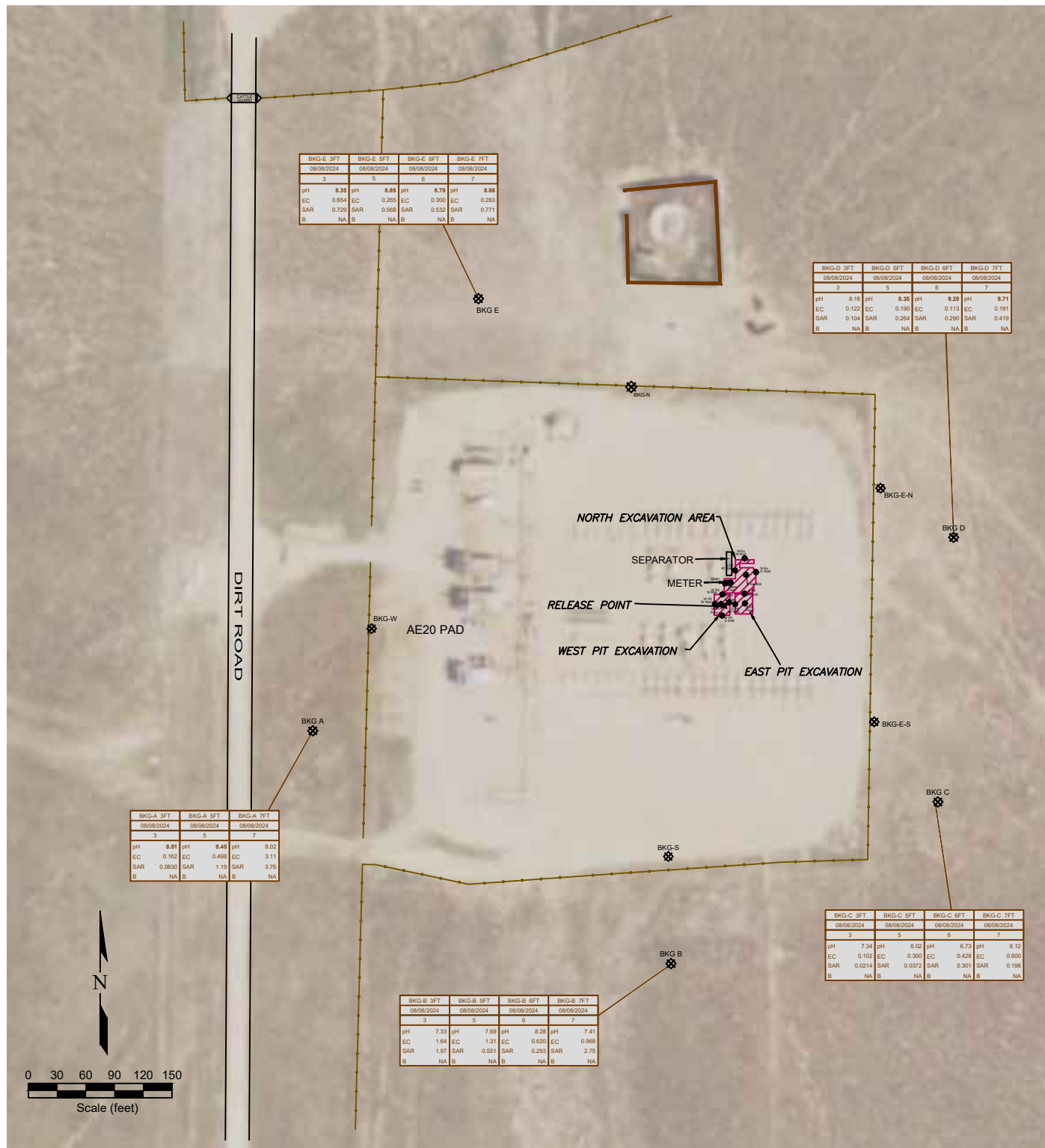


Figure 5
BACKGROUND SAMPLE SOIL CHEMISTRY MAP
 August 8, 2024
NOBLE ENERGY, INC.
WELLS RANCH AE20 FLOW LINE
 SWNW Sec. 20 T6N, R62W, 6th PM
 Weld County, Colorado
 40.473371°, -104.354575°

Project No.
C022-037

Date
8/28/24

Prepared by

Reviewed by
EB

Drawn by
TA

Filename
22037Q1



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 15, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Wells Ranch AE20

Work Order #2408105

Enclosed are the results of analyses for samples received by Summit Scientific on 08/12/24 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, written in a professional style.

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG-A 3FT	2408105-01	Soil	08/08/24 00:00	08/12/24 16:30
BKG-A 5FT	2408105-02	Soil	08/08/24 00:00	08/12/24 16:30
BKG-A 7FT	2408105-03	Soil	08/08/24 00:00	08/12/24 16:30
BKG-B 3FT	2408105-04	Soil	08/08/24 00:00	08/12/24 16:30
BKG-B 5FT	2408105-05	Soil	08/08/24 00:00	08/12/24 16:30
BKG-B 6FT	2408105-06	Soil	08/08/24 00:00	08/12/24 16:30
BKG-B 7FT	2408105-07	Soil	08/08/24 00:00	08/12/24 16:30
BKG-C 3FT	2408105-08	Soil	08/08/24 00:00	08/12/24 16:30
BKG-C 5FT	2408105-09	Soil	08/08/24 00:00	08/12/24 16:30
BKG-C 6FT	2408105-10	Soil	08/08/24 00:00	08/12/24 16:30
BKG-C 7FT	2408105-11	Soil	08/08/24 00:00	08/12/24 16:30
BKG-D 3FT	2408105-12	Soil	08/08/24 00:00	08/12/24 16:30
BKG-D 5FT	2408105-13	Soil	08/08/24 00:00	08/12/24 16:30
BKG-D 6FT	2408105-14	Soil	08/08/24 00:00	08/12/24 16:30
BKG-D 7FT	2408105-15	Soil	08/08/24 00:00	08/12/24 16:30
BKG-E 3FT	2408105-16	Soil	08/08/24 00:00	08/12/24 16:30
BKG-E 5FT	2408105-17	Soil	08/08/24 00:00	08/12/24 16:30
BKG-E 6FT	2408105-18	Soil	08/08/24 00:00	08/12/24 16:30
BKG-E 7FT	2408105-19	Soil	08/08/24 00:00	08/12/24 16:30

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 2
2408105.1	

Send Data To:		Send Invoice To:
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: Chevron
Address: 8305 6th St.,	E-Mail: Chevron Dist. List, PDC Dist. List, Civitas Dist. List	Project Name/Location:
City/State/Zip: Wellington, CO, 80549	Fremont Dist. List (@fremontenv.com) paulH, ethanB, nickL, mikeG, jeffG, chrisL, stanG, aaronO	AFE#:
Phone: 603-477-6907	Project Name: Noble - Wells Ranch AEZG	PO/Billing Codes:
Sampler Name: Ethan Black	Project Number:	Contact: Dan Peterson

					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, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Barium	Metals (Table 915-1)	TDS, Chloride, Sulfate		
1	BKG-A 3FT	8/8/24								X						X				
2	BKG-A 5FT																			
3	BKG-A 7FT																			
4	BKG-B 3FT																			
5	BKG-B 5FT																			
6	BKG-B 6FT																			
7	BKG-B 7FT																			
8	BKG-C 3FT																			
9	BKG-C 5FT																			
10	BKG-C 6FT																			
11	BKG-C 7FT																			
12	BKG-D 3FT																			
13	BKG-D 5FT																			
14	BKG-D 6FT																			
15	BKG-D 7FT																			

Relinquished by: <i>Ethan Black</i>	Date/Time: 8/8/24 1024	Received by: S2 - North Office	Date/Time: 8/12/24 1026	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: S2	Date/Time: 8/12/24 1030	Received by: <i>[Signature]</i>	Date/Time: 8/12/24 1030	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 9.1	Corrected Temperature: 9	IR gun #: 1	HNO3 lot #:			

SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2408105.2	

Send Data To:		Send Invoice To:
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: Chevron
Address: 8305 6th St.,	E-Mail: Chevron Dist. List, PDC Dist. List, Civitas Dist. List	Project Name/Location:
City/State/Zip: Wellington, CO, 80549	Fremont Dist. List (@fremontenv.com) paulH, ethanB, nickL, mikeG, jeffG, christL, stanG, aaronO	AFE#:
Phone: 603-477-6907	Project Name: Noble - Wells Ranch AEZO	PO/Billing Codes:
Sampler Name: Ethan Black	Project Number:	Contact: Dan Peterson

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, <u>Boron</u>		Metals (Table 915-1)	TDS, Chloride, Sulfate
1	BKG - E 3FT	8/8/24		1			X			X					X				
2	BKG - E 5 FT	1		1			X			X					X				
3	BKG - E 6 FT	1		1			X			X					X				
4	BKG - E 7FT	1		1			X			X					X				
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>Ethan Black</i>	Date/Time: 8/12/24 1026	Received by: S2 - North Office	Date/Time: 8/12/24 1026	TAT Business Days	Field DO	Notes:
Relinquished by: S2	Date/Time: 8/22/24 11030	Received by: <i>[Signature]</i>	Date/Time: 8/22/24 11030	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 9.1	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2408105

Client: Fremont Client Project ID: Niederwells Ranch, AE20Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil ☒ Solid ☐ Water ☐ Other ☐Temp (°C) 9.1Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
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): <u>not in certified container - bags</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS

Custodian Printed Name

8/12/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-A 3FT
2408105-01 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	43.7	0.0500	mg/L dry	1	BHH0326	08/13/24	08/14/24	EPA 6020B	
Magnesium	8.22	0.0500	"	"	"	"	"	"	
Sodium	2.28	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.0830	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.2		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.162	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.81		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-A 5FT
2408105-02 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	108	0.0500	mg/L dry	1	BHH0326	08/13/24	08/14/24	EPA 6020B	
Magnesium	21.5	0.0500	"	"	"	"	"	"	
Sodium	51.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.19	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.498	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-A 7FT
2408105-03 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	306	0.0500	mg/L dry	1	BHH0326	08/13/24	08/14/24	EPA 6020B	
Magnesium	176	0.0500	"	"	"	"	"	"	
Sodium	333	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.76	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.2		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.11	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-B 3FT
2408105-04 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	184	0.0500	mg/L dry	1	BHH0326	08/13/24	08/14/24	EPA 6020B	
Magnesium	27.2	0.0500	"	"	"	"	"	"	
Sodium	108	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.97	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.0		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.64	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.33		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-B 5FT
2408105-05 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	186	0.0500	mg/L dry	1	BHH0326	08/13/24	08/14/24	EPA 6020B	
Magnesium	25.2	0.0500	"	"	"	"	"	"	
Sodium	30.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.551	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	99.3		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.31	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20
Project Number: [none]
Project Manager: Paul Henahan

Reported:
08/15/24 09:22

BKG-B 6FT
2408105-06 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	87.8	0.0500	mg/L dry	1	BHH0326	08/13/24	08/14/24	EPA 6020B	
Magnesium	20.1	0.0500	"	"	"	"	"	"	
Sodium	11.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.293	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.9		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.620	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-B 7FT
2408105-07 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.5	0.0500	mg/L dry	1	BHH0326	08/13/24	08/14/24	EPA 6020B	
Magnesium	10.9	0.0500	"	"	"	"	"	"	
Sodium	91.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.75	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.969	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.41		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-C 3FT
2408105-08 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	74.3	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	12.0	0.0500	"	"	"	"	"	"	
Sodium	0.753	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0214	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.102	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.34		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-C 5FT
2408105-09 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.4	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	4.88	0.0500	"	"	"	"	"	"	
Sodium	0.769	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0372	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.7		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.300	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.02		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-C 6FT
2408105-10 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.4	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	4.08	0.0500	"	"	"	"	"	"	
Sodium	6.57	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.301	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.428	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.73		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-C 7FT
2408105-11 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.2	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	5.58	0.0500	"	"	"	"	"	"	
Sodium	5.94	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.196	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.2		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.600	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-D 3FT
2408105-12 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	164	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	23.7	0.0500	"	"	"	"	"	"	
Sodium	5.39	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.104	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.122	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-D 5FT
2408105-13 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	65.2	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	4.00	0.0500	"	"	"	"	"	"	
Sodium	8.12	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.264	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.0		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.190	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.35		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henahan

Reported:
08/15/24 09:22

BKG-D 6FT
2408105-14 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	31.7	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	2.65	0.0500	"	"	"	"	"	"	
Sodium	6.32	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.290	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.3		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.113	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.20		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-D 7FT
2408105-15 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.5	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	3.25	0.0500	"	"	"	"	"	"	
Sodium	7.73	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.419	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.191	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.71		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-E 3FT
2408105-16 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	64.6	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	24.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.729	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.6		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.654	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-E 5FT
2408105-17 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.4	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	9.38	0.0500	"	"	"	"	"	"	
Sodium	12.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.568	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.9		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.265	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.85		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henahan

Reported:
08/15/24 09:22

BKG-E 6FT
2408105-18 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.3	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	9.95	0.0500	"	"	"	"	"	"	
Sodium	11.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.532	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.1		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.300	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.78		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20
Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

BKG-E 7FT
2408105-19 (Soil)

Summit Scientific

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.3	0.0500	mg/L dry	1	BHH0326	08/13/24	08/15/24	EPA 6020B	
Magnesium	7.79	0.0500	"	"	"	"	"	"	
Sodium	16.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.771	0.00100	units	1	BHH0390	08/15/24	08/15/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.6		%	1	BHH0317	08/13/24	08/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.283	0.0100	mmhos/cm	1	BHH0328	08/13/24	08/14/24	EPA 120.1	

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

Date Sampled: **08/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.86		pH Units	1	BHH0327	08/13/24	08/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

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

Summit Scientific

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

Batch BHH0326 - General Preparation

Blank (BHH0326-BLK1)

Prepared: 08/13/24 Analyzed: 08/14/24

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

LCS (BHH0326-BS1)

Prepared: 08/13/24 Analyzed: 08/14/24

Calcium	5.55	0.0500	mg/L wet	5.00	111	70-130
Magnesium	5.35	0.0500	"	5.00	107	70-130
Sodium	5.32	0.0500	"	5.00	106	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Wells Ranch AE20	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/15/24 09:22

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 BHH0317 - General Preparation

Duplicate (BHH0317-DUP1)	Source: 2408105-01	Prepared & Analyzed: 08/13/24
% Solids	87.7	% 91.2 4.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

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 BHH0328 - General Preparation

Blank (BHH0328-BLK1)

Prepared: 08/13/24 Analyzed: 08/14/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHH0328-BS1)

Prepared: 08/13/24 Analyzed: 08/14/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BHH0328-DUP1)

Source: 2408105-01

Prepared: 08/13/24 Analyzed: 08/14/24

Specific Conductance (EC) 0.160 0.0100 mmhos/cm 0.162 1.12 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

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

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

Batch BHH0327 - General Preparation

LCS (BHH0327-BS1)

Prepared: 08/13/24 Analyzed: 08/14/24

pH	9.19	pH Units	9.18	100	95-105
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Duplicate (BHH0327-DUP1)

Source: 2408105-01

Prepared: 08/13/24 Analyzed: 08/14/24

pH	8.81	pH Units	8.81	0.00	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/15/24 09:22

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference