

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 18, 2025

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Degenhart USX AE 66N62W 17NWNW

Work Order #2501425

Enclosed are the results of analyses for samples received by Summit Scientific on 01/29/25 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 "Amanda Stilwell". The signature is fluid and cursive, with the first name being more prominent.

Amanda Stilwell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273

Project Manager: Paul Henchan

Reported:
02/18/25 16:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01 - 3.0ft	2501425-01	Soil	01/29/25 16:30	01/29/25 16:30
N01 - 2.0ft	2501425-02	Soil	01/29/25 16:30	01/29/25 16:30
S01 - 2.0ft	2501425-03	Soil	01/29/25 16:30	01/29/25 16:30
E01 - 2.0ft	2501425-04	Soil	01/29/25 16:30	01/29/25 16:30
W01 - 2.0ft	2501425-05	Soil	01/29/25 16:30	01/29/25 16:30

Summit Scientific

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

Lab ID	Page	of
2501425		

Client: Fremont		Project Manager: Paul Henehan		Send Invoice To:	
Address:		E-Mail: Dist. List		Company: Chevron/Noble	
City/State/Zip:		Joshua Belanger Fremont, CO		Project Name/Location:	
Phone: 813-514-7730		Project Name: Degenhart USX AE 66N42W 17NW1/4		AFB#:	
Sampler Name: Joshua Belanger		Project Number: C023-273		PO/Billing Codes: UWRWE-A3303-ABN	
				Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Air-Canister #	Other	Full TABLE 915-1 (Soil)	Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil									
1	B01-3.0ft	1/29		2			X							X					
2	N01-2.0ft	↓		↓															
3	S01-2.0ft	↓		↓															
4	E01-2.0ft	↓		↓															
5	N01-2.0ft	↓		↓															
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>J Belanger</i>	Date/Time: 1/29 1315	Received by: Summit North	Date/Time: 1/29 1315	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <i>SL</i>	Date/Time: 12925 1650	Received by: <i>[Signature]</i>	Date/Time: 12925 1650	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 0.0	Corrected Temperature: 0	IR gun #: 7	HNO3 lot #:	Standard	Field Turb.	

S₂

S2 Work Order# 2501425

Sample Receipt Checklist

Client: Tremont Client Project ID: Degenhart USX AE (W11 W2W 17N14/NW)

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

Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 6.0 Thermometer # 1

Bottle ware (Circle all that apply) Glass/Jar/Voa/Amber/Poly/Other

	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.	-			on site
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours?	-			same day
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, Total Residual Chlorine (TRC)		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	-	✓		no sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	✓			
Were samples provided in appropriate bottle ware?	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are any samples/bottles preserved (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		✓		
Additional Comments (if any):				

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

Control Form #: SRC-001

AS
Custodian Printed Name

1/29/25
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

B01 - 3.0ft
2501425-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BIA1380	01/29/25	01/29/25	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: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0443	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1383	01/29/25	01/30/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	12.5	100 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2501425-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0015	02/03/25	02/08/25	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: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0206	61.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0236	70.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1391	01/30/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

B01 - 3.0ft
2501425-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.39	0.200	mg/kg dry	1	BIA1397	01/30/25	01/31/25	EPA 6020B	
Barium	64.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.86	0.400	"	"	"	"	"	"	
Lead	3.95	0.200	"	"	"	"	"	"	
Nickel	3.19	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1401	01/30/25	01/30/25	EPA 7196A	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	33.6	0.0500	mg/L dry	1	BIA1381	01/29/25	01/30/25	EPA 6020B	
Magnesium	4.18	0.0500	"	"	"	"	"	"	
Sodium	2.45	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.106	0.00100	units	1	BIB0039	02/03/25	02/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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2501425-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BIA1395	01/30/25	01/30/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.109	0.0100	mmhos/cm	1	BIA1385	01/29/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BIA1386	01/29/25	01/30/25	EPA 9045D	

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Reported:
02/18/25 16:46

N01 - 2.0ft
2501425-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1380	01/29/25	01/29/25	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: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0445	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1383	01/29/25	01/30/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.4	91.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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N01 - 2.0ft
2501425-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0015	02/03/25	02/14/25	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: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0181	54.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1391	01/30/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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02/18/25 16:46

N01 - 2.0ft
2501425-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.41	0.200	mg/kg dry	1	BIA1397	01/30/25	01/31/25	EPA 6020B
Barium	57.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.38	0.400	"	"	"	"	"	"
Lead	6.27	0.200	"	"	"	"	"	"
Nickel	4.44	0.400	"	"	"	"	"	"
Silver	0.0449	0.0200	"	"	"	"	"	"
Zinc	18.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1401	01/30/25	01/30/25	EPA 7196A	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.1	0.0500	mg/L dry	1	BIA1381	01/29/25	01/30/25	EPA 6020B	
Magnesium	4.98	0.0500	"	"	"	"	"	"	
Sodium	33.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.45	0.00100	units	1	BIB0039	02/03/25	02/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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N01 - 2.0ft
2501425-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BIA1395	01/30/25	01/30/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.298	0.0100	mmhos/cm	1	BIA1385	01/29/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BIA1386	01/29/25	01/30/25	EPA 9045D	

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02/18/25 16:46

S01 - 2.0ft
2501425-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BIA1380	01/29/25	01/29/25	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: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0481	120 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1383	01/29/25	01/30/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	8.82	70.6 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

S01 - 2.0ft
2501425-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0015	02/03/25	02/08/25	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: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1391	01/30/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/29/25 16:30**

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

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

S01 - 2.0ft
2501425-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.07	0.200	mg/kg dry	1	BIA1397	01/30/25	01/31/25	EPA 6020B	
Barium	64.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.19	0.400	"	"	"	"	"	"	
Lead	5.30	0.200	"	"	"	"	"	"	
Nickel	3.99	0.400	"	"	"	"	"	"	
Silver	0.0229	0.0200	"	"	"	"	"	"	
Zinc	14.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1401	01/30/25	01/30/25	EPA 7196A	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.6	0.0500	mg/L dry	1	BIA1381	01/29/25	01/30/25	EPA 6020B	
Magnesium	3.20	0.0500	"	"	"	"	"	"	
Sodium	0.775	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0248	0.00100	units	1	BIB0039	02/03/25	02/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

S01 - 2.0ft
2501425-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BIA1395	01/30/25	01/30/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0958	0.0100	mmhos/cm	1	BIA1385	01/29/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.67		pH Units	1	BIA1386	01/29/25	01/30/25	EPA 9045D	

Summit Scientific

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Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

E01 - 2.0ft
2501425-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1380	01/29/25	01/29/25	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: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0443	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1383	01/29/25	01/30/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.6	101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Project: Noble - Degenhart USX AE 66N62W 17NWNW
Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

E01 - 2.0ft
2501425-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0015	02/03/25	02/08/25	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: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0153	46.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0191	57.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1391	01/30/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/29/25 16:30**

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

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

E01 - 2.0ft
2501425-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.67	0.200	mg/kg dry	1	BIA1397	01/30/25	01/31/25	EPA 6020B	
Barium	84.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.38	0.400	"	"	"	"	"	"	
Lead	5.64	0.200	"	"	"	"	"	"	
Nickel	4.72	0.400	"	"	"	"	"	"	
Silver	0.0211	0.0200	"	"	"	"	"	"	
Zinc	16.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1401	01/30/25	01/30/25	EPA 7196A	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.8	0.0500	mg/L dry	1	BIA1381	01/29/25	01/30/25	EPA 6020B	
Magnesium	4.88	0.0500	"	"	"	"	"	"	
Sodium	12.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.566	0.00100	units	1	BIB0039	02/03/25	02/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

**E01 - 2.0ft
 2501425-04 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.1		%	1	BIA1395	01/30/25	01/30/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.170	0.0100	mmhos/cm	1	BIA1385	01/29/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BIA1386	01/29/25	01/30/25	EPA 9045D	

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Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

W01 - 2.0ft
2501425-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BIA1380	01/29/25	01/29/25	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: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0438	110 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1383	01/29/25	01/30/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.9	95.5 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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 02/18/25 16:46

W01 - 2.0ft
2501425-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0015	02/03/25	02/08/25	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: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0227	68.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1391	01/30/25	01/30/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

W01 - 2.0ft
2501425-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.85	0.200	mg/kg dry	1	BIA1397	01/30/25	01/31/25	EPA 6020B	
Barium	72.4	0.400	"	"	"	"	"	"	
Cadmium	0.204	0.200	"	"	"	"	"	"	
Copper	5.00	0.400	"	"	"	"	"	"	
Lead	7.07	0.200	"	"	"	"	"	"	
Nickel	4.25	0.400	"	"	"	"	"	"	
Silver	0.0474	0.0200	"	"	"	"	"	"	
Zinc	18.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1401	01/30/25	01/30/25	EPA 7196A	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.4	0.0500	mg/L dry	1	BIA1381	01/29/25	01/30/25	EPA 6020B	
Magnesium	4.43	0.0500	"	"	"	"	"	"	
Sodium	10.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.412	0.00100	units	1	BIB0039	02/03/25	02/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/29/25 16:30**

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 - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

W01 - 2.0ft
2501425-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.1	%	1	BIA1395	01/30/25	01/30/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.172	0.0100	mmhos/cm	1	BIA1385	01/29/25	01/30/25	EPA 120.1	

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

Date Sampled: **01/29/25 16:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.46		pH Units	1	BIA1386	01/29/25	01/30/25	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA1380 - EPA 5030 Soil MS

Blank (BIA1380-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0427		"	0.0400		107	50-150				
<i>Surrogate: Toluene-d8</i>	0.0401		"	0.0400		100	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0402		"	0.0400		100	50-150				

LCS (BIA1380-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

Benzene	0.108	0.0020	mg/kg	0.100		108	70-130				
Toluene	0.106	0.0050	"	0.100		106	70-130				
Ethylbenzene	0.0990	0.0050	"	0.100		99.0	70-130				
m,p-Xylene	0.201	0.010	"	0.200		100	70-130				
o-Xylene	0.104	0.0050	"	0.100		104	70-130				
1,2,4-Trimethylbenzene	0.100	0.0050	"	0.100		100	70-130				
1,3,5-Trimethylbenzene	0.0986	0.0050	"	0.100		98.6	70-130				
Naphthalene	0.110	0.0038	"	0.100		110	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0442		"	0.0400		110	50-150				
<i>Surrogate: Toluene-d8</i>	0.0404		"	0.0400		101	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0403		"	0.0400		101	50-150				

Matrix Spike (BIA1380-MS1)

Source: 2501424-01

Prepared: 01/29/25 Analyzed: 01/30/25

Benzene	0.0990	0.0020	mg/kg	0.100	ND	99.0	70-130				
Toluene	0.0983	0.0050	"	0.100	ND	98.3	70-130				
Ethylbenzene	0.0982	0.0050	"	0.100	ND	98.2	70-130				
m,p-Xylene	0.214	0.010	"	0.200	0.0331	90.3	70-130				
o-Xylene	0.0980	0.0050	"	0.100	ND	98.0	70-130				
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	0.0178	89.5	70-130				
1,3,5-Trimethylbenzene	0.0999	0.0050	"	0.100	0.0149	85.0	70-130				
Naphthalene	0.108	0.0038	"	0.100	ND	108	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0439		"	0.0400		110	50-150				
<i>Surrogate: Toluene-d8</i>	0.0407		"	0.0400		102	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0423		"	0.0400		106	50-150				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA1380 - EPA 5030 Soil MS

Matrix Spike Dup (BIA1380-MSD1)	Source: 2501424-01			Prepared: 01/29/25 Analyzed: 01/30/25						
Benzene	0.0978	0.0020	mg/kg	0.100	ND	97.8	70-130	1.25	30	
Toluene	0.0964	0.0050	"	0.100	ND	96.4	70-130	1.91	30	
Ethylbenzene	0.0952	0.0050	"	0.100	ND	95.2	70-130	3.10	30	
m,p-Xylene	0.197	0.010	"	0.200	0.0331	82.1	70-130	8.01	30	
o-Xylene	0.0965	0.0050	"	0.100	ND	96.5	70-130	1.57	30	
1,2,4-Trimethylbenzene	0.0984	0.0050	"	0.100	0.0178	80.6	70-130	8.67	30	
1,3,5-Trimethylbenzene	0.0954	0.0050	"	0.100	0.0149	80.5	70-130	4.64	30	
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130	3.46	30	
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

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Project: Noble - Degenhart USX AE 66N62W 17NWNW
Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIA1383 - EPA 3550A

Blank (BIA1383-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.1		"	12.5		80.8	30-150				

LCS (BIA1383-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

C10-C28 (DRO)	478	50	mg/kg	500		95.7	70-130				
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.5		103	30-150				

Matrix Spike (BIA1383-MS1)

Source: 2501424-01

Prepared: 01/29/25 Analyzed: 01/30/25

C10-C28 (DRO)	466	50	mg/kg	500	ND	93.2	70-130				
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.4	30-150				

Matrix Spike Dup (BIA1383-MSD1)

Source: 2501424-01

Prepared: 01/29/25 Analyzed: 01/30/25

C10-C28 (DRO)	451	50	mg/kg	500	ND	90.3	70-130	3.25	20		
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.5		103	30-150				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIB0015 - EPA 5030 Soil MS

Blank (BIB0015-BLK1)

Prepared: 02/03/25 Analyzed: 02/08/25

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	0.0177		"	0.0333		53.2	40-140			
Surrogate: Fluoranthene-d10	0.0217		"	0.0333		65.0	40-140			

LCS (BIB0015-BS1)

Prepared: 02/03/25 Analyzed: 02/08/25

Acenaphthene	0.0185	0.00500	mg/kg	0.0333		55.5	40-140			
Anthracene	0.0187	0.00500	"	0.0333		56.2	40-140			
Benzo (a) anthracene	0.0202	0.00500	"	0.0333		60.5	40-140			
Benzo (a) pyrene	0.0189	0.00500	"	0.0333		56.8	40-140			
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333		52.8	40-140			
Benzo (k) fluoranthene	0.0178	0.00500	"	0.0333		53.5	40-140			
Chrysene	0.0188	0.00500	"	0.0333		56.4	40-140			
Dibenz (a,h) anthracene	0.0225	0.00500	"	0.0333		67.6	40-140			
Fluoranthene	0.0219	0.00500	"	0.0333		65.8	40-140			
Fluorene	0.0183	0.00500	"	0.0333		55.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0215	0.00500	"	0.0333		64.4	40-140			
Pyrene	0.0191	0.00500	"	0.0333		57.4	40-140			
1-Methylnaphthalene	0.0172	0.00500	"	0.0333		51.5	40-140			
2-Methylnaphthalene	0.0170	0.00500	"	0.0333		51.0	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0173		"	0.0333		52.0	40-140			
Surrogate: Fluoranthene-d10	0.0222		"	0.0333		66.5	40-140			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW
Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIB0015 - EPA 5030 Soil MS

Matrix Spike (BIB0015-MS1)	Source: 2501345-01			Prepared: 02/03/25 Analyzed: 02/08/25						
Acenaphthene	0.0158	0.00500	mg/kg	0.0333	ND	47.4	40-140			
Anthracene	0.0159	0.00500	"	0.0333	ND	47.6	40-140			
Benzo (a) anthracene	0.0182	0.00500	"	0.0333	ND	54.6	40-140			
Benzo (a) pyrene	0.0158	0.00500	"	0.0333	ND	47.4	40-140			
Benzo (b) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.5	40-140			
Benzo (k) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.1	40-140			
Chrysene	0.0161	0.00500	"	0.0333	ND	48.2	40-140			
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.3	40-140			
Fluoranthene	0.0179	0.00500	"	0.0333	ND	53.8	40-140			
Fluorene	0.0162	0.00500	"	0.0333	ND	48.7	40-140			
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.1	40-140			
Pyrene	0.0142	0.00500	"	0.0333	ND	42.7	40-140			
1-Methylnaphthalene	0.0150	0.00500	"	0.0333	ND	45.1	40-140			
2-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.2	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0150</i>		<i>"</i>	<i>0.0333</i>		<i>45.1</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0179</i>		<i>"</i>	<i>0.0333</i>		<i>53.6</i>	<i>40-140</i>			

Matrix Spike Dup (BIB0015-MSD1)	Source: 2501345-01			Prepared: 02/03/25 Analyzed: 02/08/25						
Acenaphthene	0.0162	0.00500	mg/kg	0.0333	ND	48.5	40-140	2.16	30	
Anthracene	0.0150	0.00500	"	0.0333	ND	44.9	40-140	5.89	30	
Benzo (a) anthracene	0.0183	0.00500	"	0.0333	ND	55.0	40-140	0.598	30	
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	45.8	40-140	3.38	30	
Benzo (b) fluoranthene	0.0135	0.00500	"	0.0333	ND	40.6	40-140	4.76	30	
Benzo (k) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.8	40-140	3.91	30	
Chrysene	0.0162	0.00500	"	0.0333	ND	48.5	40-140	0.585	30	
Dibenz (a,h) anthracene	0.0147	0.00500	"	0.0333	ND	44.2	40-140	0.136	30	
Fluoranthene	0.0172	0.00500	"	0.0333	ND	51.6	40-140	4.19	30	
Fluorene	0.0166	0.00500	"	0.0333	ND	49.7	40-140	2.12	30	
Indeno (1,2,3-cd) pyrene	0.0153	0.00500	"	0.0333	ND	45.9	40-140	6.25	30	
Pyrene	0.0140	0.00500	"	0.0333	ND	42.0	40-140	1.85	30	
1-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	45.9	40-140	1.79	30	
2-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.4	40-140	0.318	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0154</i>		<i>"</i>	<i>0.0333</i>		<i>46.1</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.5</i>	<i>40-140</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

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

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

Batch BIA1391 - EPA 3050B

Blank (BIA1391-BLK1)

Prepared & Analyzed: 01/30/25

Boron ND 2.00 mg/L

LCS (BIA1391-BS1)

Prepared & Analyzed: 01/30/25

Boron 5.69 2.00 mg/L 5.00 114 80-120

Duplicate (BIA1391-DUP1)

Source: 2501425-01

Prepared & Analyzed: 01/30/25

Boron 0.157 2.00 mg/L 0.248 45.1 20 QR-01

Matrix Spike (BIA1391-MS1)

Source: 2501425-01

Prepared & Analyzed: 01/30/25

Boron 5.53 2.00 mg/L 4.98 0.248 106 75-125

Matrix Spike Dup (BIA1391-MSD1)

Source: 2501425-01

Prepared & Analyzed: 01/30/25

Boron 5.68 2.00 mg/L 4.98 0.248 109 75-125 2.64 25

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PO Box 1289
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Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
Project Manager: Paul Henchan

Reported:
02/18/25 16:46

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA1397 - EPA 3050B

Blank (BIA1397-BLK1)

Prepared: 01/30/25 Analyzed: 01/31/25

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 (BIA1397-BS1)

Prepared: 01/30/25 Analyzed: 01/31/25

Arsenic	32.0	0.200	mg/kg wet	39.7	80.6	80-120
Barium	33.0	0.400	"	39.7	83.1	80-120
Cadmium	1.74	0.200	"	1.98	87.6	80-120
Copper	33.0	0.400	"	39.7	83.1	80-120
Lead	16.7	0.200	"	19.8	84.4	80-120
Nickel	32.5	0.400	"	39.7	81.9	80-120
Silver	1.69	0.0200	"	1.98	85.2	80-120
Zinc	32.1	0.400	"	39.7	80.8	80-120
Selenium	4.19	0.260	"	3.97	106	80-120

Duplicate (BIA1397-DUP1)

Source: 2501425-01

Prepared: 01/30/25 Analyzed: 01/31/25

Arsenic	2.58	0.200	mg/kg dry	2.39	7.44	20
Barium	60.9	0.400	"	64.2	5.26	20
Cadmium	0.144	0.200	"	0.137	4.69	20
Copper	2.94	0.400	"	2.86	2.69	20
Lead	4.31	0.200	"	3.95	8.70	20
Nickel	3.35	0.400	"	3.19	4.93	20
Silver	0.0165	0.0200	"	0.0163	0.803	20
Zinc	11.2	0.400	"	10.4	7.07	20
Selenium	ND	0.260	"	ND		20

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 Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA1397 - EPA 3050B

Matrix Spike (BIA1397-MS1)	Source: 2501425-01			Prepared: 01/30/25		Analyzed: 01/31/25				
Arsenic	33.9	0.200	mg/kg dry	40.3	2.39	78.3	75-125			
Barium	97.3	0.400	"	40.3	64.2	82.2	75-125			
Cadmium	1.91	0.200	"	2.02	0.137	88.2	75-125			
Copper	35.5	0.400	"	40.3	2.86	81.0	75-125			
Lead	21.2	0.200	"	20.2	3.95	85.5	75-125			
Nickel	36.2	0.400	"	40.3	3.19	81.9	75-125			
Silver	1.69	0.0200	"	2.02	0.0163	83.3	75-125			
Zinc	45.5	0.400	"	40.3	10.4	87.1	75-125			
Selenium	3.72	0.260	"	4.03	ND	92.3	75-125			

Matrix Spike Dup (BIA1397-MSD1)	Source: 2501425-01			Prepared: 01/30/25		Analyzed: 01/31/25				
Arsenic	37.8	0.200	mg/kg dry	43.3	2.39	81.8	75-125	10.8	25	
Barium	101	0.400	"	43.3	64.2	84.1	75-125	3.34	25	
Cadmium	2.14	0.200	"	2.17	0.137	92.4	75-125	11.1	25	
Copper	39.3	0.400	"	43.3	2.86	84.2	75-125	10.3	25	
Lead	23.2	0.200	"	21.7	3.95	89.0	75-125	9.21	25	
Nickel	39.9	0.400	"	43.3	3.19	84.8	75-125	9.79	25	
Silver	1.92	0.0200	"	2.17	0.0163	87.8	75-125	12.3	25	
Zinc	49.1	0.400	"	43.3	10.4	89.3	75-125	7.57	25	
Selenium	4.27	0.260	"	4.33	ND	98.6	75-125	13.7	25	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIA1401 - 3060A Mod

Blank (BIA1401-BLK1)

Prepared & Analyzed: 01/30/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIA1401-BS1)

Prepared & Analyzed: 01/30/25

Chromium, Hexavalent 23.8 0.30 mg/kg wet 24.5 97.2 80-120

Duplicate (BIA1401-DUP1)

Source: 2501425-01

Prepared & Analyzed: 01/30/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIA1401-MS1)

Source: 2501425-01

Prepared & Analyzed: 01/30/25

Chromium, Hexavalent 24.7 0.30 mg/kg dry 26.2 ND 94.4 75-125

Matrix Spike Dup (BIA1401-MSD1)

Source: 2501425-01

Prepared & Analyzed: 01/30/25

Chromium, Hexavalent 24.6 0.30 mg/kg dry 25.2 ND 97.8 75-125 0.384 20

Summit Scientific

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Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

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

Summit Scientific

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

Batch BIA1381 - General Preparation

Blank (BIA1381-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

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

LCS (BIA1381-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

Calcium	5.56	0.0500	mg/L wet	5.00	111	70-130
Magnesium	4.70	0.0500	"	5.00	94.0	70-130
Sodium	4.84	0.0500	"	5.00	96.9	70-130

Summit Scientific

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Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

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

Summit Scientific

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

Batch BIA1395 - General Preparation

Duplicate (BIA1395-DUP1)

Source: 2501425-01

Prepared & Analyzed: 01/30/25

% Solids	95.1		%		95.4			0.296	20	
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW
 Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

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

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

Batch BIA1385 - General Preparation

Blank (BIA1385-BLK1)

Prepared: 01/29/25 Analyzed: 01/30/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIA1385-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

Specific Conductance (EC) 1.38 0.0100 mmhos/cm 1.41 98.0 95-105

Duplicate (BIA1385-DUP1)

Source: 2501410-01

Prepared: 01/29/25 Analyzed: 01/30/25

Specific Conductance (EC) 1.49 0.0100 mmhos/cm 1.49 0.202 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273
 Project Manager: Paul Henchan

Reported:
 02/18/25 16:46

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

Summit Scientific

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

Batch BIA1386 - General Preparation

LCS (BIA1386-BS1)

Prepared: 01/29/25 Analyzed: 01/30/25

pH	9.11	pH Units	9.18	99.3	95-105
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Duplicate (BIA1386-DUP1)

Source: 2501410-01

Prepared: 01/29/25 Analyzed: 01/30/25

pH	8.40	pH Units	8.00	4.81	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Degenhart USX AE 66N62W 17NWNW

Project Number: UWRWE-A3383-ABN CO23-273

Project Manager: Paul Henchan

Reported:
02/18/25 16:46

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.
- 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