

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 16, 2025

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Knaub 64N65W 9SWSW Facility (SI)

Work Order #2411483

Enclosed are the results of analyses for samples received by Summit Scientific on 11/25/24 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN

Project Manager: Paul Henchan

Reported:
01/16/25 12:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP SBW02 - 6Ft	2411483-01	Soil	11/25/24 00:00	11/25/24 18:20
SEP SBW02 - 12Ft	2411483-02	Soil	11/25/24 00:00	11/25/24 18:20
SEP SBE - 7Ft	2411483-03	Soil	11/25/24 00:00	11/25/24 18:20
SEP SBE - 11Ft	2411483-04	Soil	11/25/24 00:00	11/25/24 18:20
SEP SBE01 - 4Ft	2411483-05	Soil	11/25/24 00:00	11/25/24 18:20
SEP SBE01 - 12Ft	2411483-06	Soil	11/25/24 00:00	11/25/24 18:20
PWV SBN01 - 6Ft	2411483-07	Soil	11/25/24 00:00	11/25/24 18:20
PWV SBN01 - 12Ft	2411483-08	Soil	11/25/24 00:00	11/25/24 18:20

Case Narrative

The Hexavalent Chromium analysis was performed outside of recommended hold-time due to delays at Summit Scientific.



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

Lab ID
 2411483
 Page 1 of 1

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: Noble	
Address:		E-Mail: Fremont Distribution List, chev ron Dist list		Project Name/Location:	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: Knaub-G4N65W9 SWSW Facility(SI)		PO/Billing Codes: UWRWE-A3469-ABN	
Sampler Name: Stanley Gilbert		Project Number: C024-021		Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil		Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate		
1	SEP SBW02-6FT	11/25/24		2			X			X									X	
2	SEP SBW02-12FT																			
3	SEP SBE-7FT																			
4	SEP SBE-12FT																			
5	SEP SBE01-4FT																			
6	SEP SBE01-12FT																			
7	DWV SBN01-6FT																			
8	DWV SBN01-12FT																			
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time: 11/25/24 18:20	Received by:	Date/Time: 11/25/24 18:20	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 5.0	Corrected Temperature:	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2411483

Client: Fremont / Noble

Client Project ID: KnauB-64N65W 9SWSW facility (SI)

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

Five empty boxes for shipping options

Airbill #: _____

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

5.6

Thermometer #

2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature $\leq 6^{\circ}\text{C}$? ⁽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"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

Control Form # SRC-001

AS

Custodian Printed Name

11/25/24

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBW02 - 6Ft
2411483-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHL0114	12/03/24	12/04/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHL0119	12/03/24	12/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.89	55.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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2411483-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL0224	12/05/24	12/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0243	73.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0243	72.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0302	01/08/25	01/11/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

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

Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBW02 - 6Ft
2411483-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.856	0.200	mg/kg dry	1	BIA0223	01/07/25	01/16/25	EPA 6020B	
Barium	33.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.43	0.400	"	"	"	"	"	"	
Lead	3.25	0.200	"	"	"	"	"	"	
Nickel	2.59	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL1249	12/27/24	12/30/24	EPA 7196A	I-02

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

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4.85	0.0500	mg/L dry	1	BHL0947	12/19/24	12/30/24	EPA 6020B	
Magnesium	3.59	0.0500	"	"	"	"	"	"	
Sodium	40.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.36	0.00100	units	1	BHL1431	12/31/24	12/31/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
 Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

SEP SBW02 - 6Ft
2411483-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BHL0690	12/16/24	12/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.837	0.0100	mmhos/cm	1	BHL0962	12/19/24	12/30/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.81		pH Units	1	BHL0953	12/19/24	12/30/24	EPA 9045D	

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Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBW02 - 12Ft
2411483-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL0114	12/03/24	12/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0412	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL0119	12/03/24	12/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.70	61.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 01/16/25 12:37

SEP SBW02 - 12Ft
2411483-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL0224	12/05/24	12/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0246	73.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0234	70.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0302	01/08/25	01/11/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBW02 - 12Ft
2411483-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.36	0.200	mg/kg dry	1	BIA0223	01/07/25	01/16/25	EPA 6020B	
Barium	41.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.19	0.400	"	"	"	"	"	"	
Lead	4.46	0.200	"	"	"	"	"	"	
Nickel	3.23	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL1249	12/27/24	12/30/24	EPA 7196A	I-02

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

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.4	0.0500	mg/L dry	1	BHL0947	12/19/24	12/30/24	EPA 6020B	
Magnesium	5.00	0.0500	"	"	"	"	"	"	
Sodium	38.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.08	0.00100	units	1	BHL1431	12/31/24	12/31/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Reported:
 01/16/25 12:37

SEP SBW02 - 12Ft
2411483-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	83.4			%	1	BHL0690	12/16/24	12/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.272	0.0100		mmhos/cm	1	BHL0962	12/19/24	12/30/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.88			pH Units	1	BHL0953	12/19/24	12/30/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBE - 7Ft
2411483-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL0114	12/03/24	12/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.018	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.13	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	26	0.50	"	100	"	"	12/04/24	"	
1,3,5-Trimethylbenzene	2.7	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	1	"	"	12/04/24	"	
Gasoline Range Hydrocarbons	470	50	"	100	"	"	12/04/24	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0400	99.9 %	50-150		"	"	12/04/24	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0478	120 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	650	50	mg/kg	1	BHL0119	12/03/24	12/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.91	71.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBE - 7Ft
2411483-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL0224	12/05/24	12/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00689	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	0.625	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.783	0.00500	"	"	"	"	"	"	E

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	61.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0302	01/08/25	01/11/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBE - 7Ft
2411483-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.416	0.200	mg/kg dry	1	BIA0223	01/07/25	01/16/25	EPA 6020B	
Barium	15.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.33	0.400	"	"	"	"	"	"	
Lead	2.84	0.200	"	"	"	"	"	"	
Nickel	2.31	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.33	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL1249	12/27/24	12/30/24	EPA 7196A	I-02

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

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	99.0	0.0500	mg/L dry	1	BHL0947	12/19/24	12/30/24	EPA 6020B	
Magnesium	26.6	0.0500	"	"	"	"	"	"	
Sodium	58.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.35	0.00100	units	1	BHL1431	12/31/24	12/31/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

SEP SBE - 7Ft
2411483-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.8		%	1	BHL0690	12/16/24	12/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.70	0.0100	mmhos/cm	1	BHL0962	12/19/24	12/30/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	4.78		pH Units	1	BHL0953	12/19/24	12/30/24	EPA 9045D	

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Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBE - 11Ft
2411483-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL0114	12/03/24	12/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL0119	12/03/24	12/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.3	82.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBE - 11Ft
2411483-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL0224	12/05/24	12/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0245	73.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0245	73.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0302	01/08/25	01/11/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

**SEP SBE - 11Ft
2411483-04 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.08	0.200	mg/kg dry	1	BIA0223	01/07/25	01/16/25	EPA 6020B	
Barium	31.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.96	0.400	"	"	"	"	"	"	
Lead	3.58	0.200	"	"	"	"	"	"	
Nickel	2.45	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL1249	12/27/24	12/30/24	EPA 7196A	I-02

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

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.5	0.0500	mg/L dry	1	BHL0947	12/19/24	12/30/24	EPA 6020B	
Magnesium	5.56	0.0500	"	"	"	"	"	"	
Sodium	29.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.59	0.00100	units	1	BHL1431	12/31/24	12/31/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 01/16/25 12:37

**SEP SBE - 11Ft
 2411483-04 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.1		%	1	BHL0690	12/16/24	12/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.226	0.0100	mmhos/cm	1	BHL0962	12/19/24	12/30/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.99		pH Units	1	BHL0953	12/19/24	12/30/24	EPA 9045D	

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Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBE01 - 4Ft
2411483-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL0114	12/03/24	12/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0391	97.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL0119	12/03/24	12/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.5	84.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2411483-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL0224	12/05/24	12/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0204	61.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0204	61.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	2.02	2.00	mg/L	1	BIA0302	01/08/25	01/11/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBE01 - 4Ft
2411483-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.86	0.200	mg/kg dry	1	BIA0223	01/07/25	01/16/25	EPA 6020B	
Barium	99.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.29	0.400	"	"	"	"	"	"	
Lead	8.30	0.200	"	"	"	"	"	"	
Nickel	5.45	0.400	"	"	"	"	"	"	
Silver	0.0453	0.0200	"	"	"	"	"	"	
Zinc	20.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL1249	12/27/24	12/30/24	EPA 7196A	I-02

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

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5.59	0.0500	mg/L dry	1	BHL0947	12/19/24	12/30/24	EPA 6020B	
Magnesium	8.33	0.0500	"	"	"	"	"	"	
Sodium	21.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.36	0.00100	units	1	BHL1431	12/31/24	12/31/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

SEP SBE01 - 4Ft
2411483-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	86.2			%	1	BHL0690	12/16/24	12/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.321	0.0100		mmhos/cm	1	BHL0962	12/19/24	12/30/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	9.69			pH Units	1	BHL0953	12/19/24	12/30/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBE01 - 12Ft
2411483-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL0114	12/03/24	12/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0396	99.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL0119	12/03/24	12/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.8	86.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Project: Noble - Knaub 64N65W 9SWW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBE01 - 12Ft
2411483-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL0224	12/05/24	12/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0193	58.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0302	01/08/25	01/11/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

SEP SBE01 - 12Ft
2411483-06 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.71	0.200	mg/kg dry	1	BIA0223	01/07/25	01/16/25	EPA 6020B
Barium	45.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.39	0.400	"	"	"	"	"	"
Lead	4.77	0.200	"	"	"	"	"	"
Nickel	3.61	0.400	"	"	"	"	"	"
Silver	0.0212	0.0200	"	"	"	"	"	"
Zinc	16.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL1249	12/27/24	12/30/24	EPA 7196A	I-02

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

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.8	0.0500	mg/L dry	1	BHL0947	12/19/24	12/30/24	EPA 6020B	
Magnesium	7.22	0.0500	"	"	"	"	"	"	
Sodium	42.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.07	0.00100	units	1	BHL1431	12/31/24	12/31/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
 Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

**SEP SBE01 - 12Ft
 2411483-06 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.2			%	1	BHL0690	12/16/24	12/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.297	0.0100		mmhos/cm	1	BHL0962	12/19/24	12/30/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.74			pH Units	1	BHL0953	12/19/24	12/30/24	EPA 9045D	

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Project: Noble - Knaub 64N65W 9SWW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

PWV SBN01 - 6Ft
2411483-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL0114	12/03/24	12/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0402	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL0119	12/03/24	12/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.96	63.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

PWV SBN01 - 6Ft
2411483-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL0224	12/05/24	12/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0302	01/08/25	01/11/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

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 - Knaub 64N65W 9SWSW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

PWV SBN01 - 6Ft
2411483-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.791	0.200	mg/kg dry	1	BIA0223	01/07/25	01/16/25	EPA 6020B	
Barium	30.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.03	0.400	"	"	"	"	"	"	
Lead	3.02	0.200	"	"	"	"	"	"	
Nickel	2.04	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.59	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL1249	12/27/24	12/30/24	EPA 7196A	I-02

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

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.8	0.0500	mg/L dry	1	BHL0947	12/19/24	12/30/24	EPA 6020B	
Magnesium	11.4	0.0500	"	"	"	"	"	"	
Sodium	38.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.94	0.00100	units	1	BHL1431	12/31/24	12/31/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
 Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

**PWV SBN01 - 6Ft
 2411483-07 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BHL0690	12/16/24	12/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.583	0.0100	mmhos/cm	1	BHL0962	12/19/24	12/30/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHL0953	12/19/24	12/30/24	EPA 9045D	

Summit Scientific

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

PWV SBN01 - 12Ft
2411483-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL0114	12/03/24	12/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0406	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL0119	12/03/24	12/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.75	78.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Knaub 64N65W 9SWW Facility (SI)

Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

PWV SBN01 - 12Ft
2411483-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL0224	12/05/24	12/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0185	55.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0302	01/08/25	01/11/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

PWV SBN01 - 12Ft
2411483-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.11	0.200	mg/kg dry	1	BIA0223	01/07/25	01/16/25	EPA 6020B
Barium	50.7	0.400	"	"	"	"	"	"
Cadmium	0.303	0.200	"	"	"	"	"	"
Copper	2.80	0.400	"	"	"	"	"	"
Lead	3.34	0.200	"	"	"	"	"	"
Nickel	3.03	0.400	"	"	"	"	"	"
Silver	0.0229	0.0200	"	"	"	"	"	"
Zinc	13.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL1249	12/27/24	12/30/24	EPA 7196A	I-02

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

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.3	0.0500	mg/L dry	1	BHL0947	12/19/24	12/30/24	EPA 6020B	
Magnesium	7.45	0.0500	"	"	"	"	"	"	
Sodium	37.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.88	0.00100	units	1	BHL1431	12/31/24	12/31/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/25/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)
 Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

PWV SBN01 - 12Ft
2411483-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.7	%	1	BHL0690	12/16/24	12/17/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.271	0.0100	mmhos/cm	1	BHL0962	12/19/24	12/30/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BHL0953	12/19/24	12/30/24	EPA 9045D	

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Project: Noble - Knaub 64N65W 9SWW Facility (SI)

Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

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 BHL0114 - EPA 5030 Soil MS

Blank (BHL0114-BLK1)

Prepared: 12/03/24 Analyzed: 12/04/24

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0394		"	0.0400		98.6	50-150				
<i>Surrogate: Toluene-d8</i>	0.0399		"	0.0400		99.8	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0404		"	0.0400		101	50-150				

LCS (BHL0114-BS1)

Prepared: 12/03/24 Analyzed: 12/04/24

Benzene	0.103	0.0020	mg/kg	0.100		103	70-130				
Toluene	0.101	0.0050	"	0.100		101	70-130				
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130				
m,p-Xylene	0.203	0.010	"	0.200		101	70-130				
o-Xylene	0.101	0.0050	"	0.100		101	70-130				
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130				
1,3,5-Trimethylbenzene	0.0995	0.0050	"	0.100		99.5	70-130				
Naphthalene	0.109	0.0038	"	0.100		109	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0392		"	0.0400		98.0	50-150				
<i>Surrogate: Toluene-d8</i>	0.0399		"	0.0400		99.7	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0390		"	0.0400		97.6	50-150				

Matrix Spike (BHL0114-MS1)

Source: 2411477-01

Prepared: 12/03/24 Analyzed: 12/04/24

Benzene	0.0973	0.0020	mg/kg	0.100	ND	97.3	70-130				
Toluene	0.0979	0.0050	"	0.100	ND	97.9	70-130				
Ethylbenzene	0.0974	0.0050	"	0.100	ND	97.4	70-130				
m,p-Xylene	0.196	0.010	"	0.200	ND	98.2	70-130				
o-Xylene	0.0970	0.0050	"	0.100	ND	97.0	70-130				
1,2,4-Trimethylbenzene	0.0972	0.0050	"	0.100	ND	97.2	70-130				
1,3,5-Trimethylbenzene	0.0962	0.0050	"	0.100	ND	96.2	70-130				
Naphthalene	0.102	0.0038	"	0.100	ND	102	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0411		"	0.0400		103	50-150				
<i>Surrogate: Toluene-d8</i>	0.0406		"	0.0400		101	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0405		"	0.0400		101	50-150				

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

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		

Batch BHL0114 - EPA 5030 Soil MS

Matrix Spike Dup (BHL0114-MSD1)	Source: 2411477-01			Prepared: 12/03/24 Analyzed: 12/04/24						
Benzene	0.0974	0.0020	mg/kg	0.100	ND	97.4	70-130	0.0925	30	
Toluene	0.0960	0.0050	"	0.100	ND	96.0	70-130	1.92	30	
Ethylbenzene	0.0966	0.0050	"	0.100	ND	96.6	70-130	0.773	30	
m,p-Xylene	0.196	0.010	"	0.200	ND	97.9	70-130	0.352	30	
o-Xylene	0.0975	0.0050	"	0.100	ND	97.5	70-130	0.555	30	
1,2,4-Trimethylbenzene	0.0969	0.0050	"	0.100	ND	96.9	70-130	0.340	30	
1,3,5-Trimethylbenzene	0.0963	0.0050	"	0.100	ND	96.3	70-130	0.0935	30	
Naphthalene	0.0987	0.0038	"	0.100	ND	98.7	70-130	2.93	30	
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

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 BHL0119 - EPA 3550A

Blank (BHL0119-BLK1)

Prepared & Analyzed: 12/03/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	22.4		"	25.0		89.8	30-150				

LCS (BHL0119-BS1)

Prepared & Analyzed: 12/03/24

C10-C28 (DRO)	570	50	mg/kg	500		114	70-130				
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		107	30-150				

Matrix Spike (BHL0119-MS1)

Source: 2411477-01

Prepared & Analyzed: 12/03/24

C10-C28 (DRO)	566	50	mg/kg	500	ND	113	70-130				
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		106	30-150				

Matrix Spike Dup (BHL0119-MSD1)

Source: 2411477-01

Prepared & Analyzed: 12/03/24

C10-C28 (DRO)	530	50	mg/kg	500	ND	106	70-130	6.58	20		
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		105	30-150				

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Project: Noble - Knaub 64N65W 9SWW Facility (SI)
Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

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 BHL0224 - EPA 5030 Soil MS

Blank (BHL0224-BLK1)

Prepared: 12/05/24 Analyzed: 12/06/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0220		"	0.0333		66.1	40-140			
Surrogate: Fluoranthene-d10	0.0236		"	0.0333		70.8	40-140			

LCS (BHL0224-BS1)

Prepared: 12/05/24 Analyzed: 12/06/24

Acenaphthene	0.0244	0.00500	mg/kg	0.0333		73.2	40-140			
Anthracene	0.0214	0.00500	"	0.0333		64.3	40-140			
Benzo (a) anthracene	0.0215	0.00500	"	0.0333		64.4	40-140			
Benzo (a) pyrene	0.0231	0.00500	"	0.0333		69.2	40-140			
Benzo (b) fluoranthene	0.0261	0.00500	"	0.0333		78.2	40-140			
Benzo (k) fluoranthene	0.0250	0.00500	"	0.0333		75.1	40-140			
Chrysene	0.0225	0.00500	"	0.0333		67.4	40-140			
Dibenz (a,h) anthracene	0.0266	0.00500	"	0.0333		79.8	40-140			
Fluoranthene	0.0221	0.00500	"	0.0333		66.2	40-140			
Fluorene	0.0267	0.00500	"	0.0333		80.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0273	0.00500	"	0.0333		82.0	40-140			
Pyrene	0.0281	0.00500	"	0.0333		84.3	40-140			
1-Methylnaphthalene	0.0205	0.00500	"	0.0333		61.6	40-140			
2-Methylnaphthalene	0.0192	0.00500	"	0.0333		57.5	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0193		"	0.0333		57.9	40-140			
Surrogate: Fluoranthene-d10	0.0229		"	0.0333		68.7	40-140			

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

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 BHL0224 - EPA 5030 Soil MS

Matrix Spike (BHL0224-MS1)	Source: 2411477-01			Prepared: 12/05/24 Analyzed: 12/06/24						
Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	61.0	40-140			
Anthracene	0.0157	0.00500	"	0.0333	ND	47.2	40-140			
Benzo (a) anthracene	0.0160	0.00500	"	0.0333	ND	48.0	40-140			
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.8	40-140			
Benzo (b) fluoranthene	0.0195	0.00500	"	0.0333	ND	58.6	40-140			
Benzo (k) fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	40-140			
Chrysene	0.0166	0.00500	"	0.0333	ND	49.9	40-140			
Dibenz (a,h) anthracene	0.0208	0.00500	"	0.0333	ND	62.5	40-140			
Fluoranthene	0.0169	0.00500	"	0.0333	ND	50.7	40-140			
Fluorene	0.0242	0.00500	"	0.0333	ND	72.5	40-140			
Indeno (1,2,3-cd) pyrene	0.0219	0.00500	"	0.0333	ND	65.7	40-140			
Pyrene	0.0218	0.00500	"	0.0333	ND	65.3	40-140			
1-Methylnaphthalene	0.0172	0.00500	"	0.0333	ND	51.7	40-140			
2-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.2	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0167</i>		<i>"</i>	<i>0.0333</i>		<i>50.2</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0172</i>		<i>"</i>	<i>0.0333</i>		<i>51.6</i>	<i>40-140</i>			

Matrix Spike Dup (BHL0224-MSD1)	Source: 2411477-01			Prepared: 12/05/24 Analyzed: 12/06/24						
Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.3	40-140	6.78	30	
Anthracene	0.0190	0.00500	"	0.0333	ND	57.0	40-140	18.8	30	
Benzo (a) anthracene	0.0198	0.00500	"	0.0333	ND	59.4	40-140	21.2	30	
Benzo (a) pyrene	0.0210	0.00500	"	0.0333	ND	63.1	40-140	17.8	30	
Benzo (b) fluoranthene	0.0233	0.00500	"	0.0333	ND	69.8	40-140	17.5	30	
Benzo (k) fluoranthene	0.0224	0.00500	"	0.0333	ND	67.3	40-140	16.3	30	
Chrysene	0.0200	0.00500	"	0.0333	ND	59.9	40-140	18.2	30	
Dibenz (a,h) anthracene	0.0268	0.00500	"	0.0333	ND	80.5	40-140	25.2	30	
Fluoranthene	0.0200	0.00500	"	0.0333	ND	60.1	40-140	17.0	30	
Fluorene	0.0243	0.00500	"	0.0333	ND	72.8	40-140	0.453	30	
Indeno (1,2,3-cd) pyrene	0.0265	0.00500	"	0.0333	ND	79.6	40-140	19.1	30	
Pyrene	0.0254	0.00500	"	0.0333	ND	76.2	40-140	15.4	30	
1-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.0	40-140	18.1	30	
2-Methylnaphthalene	0.0190	0.00500	"	0.0333	ND	57.0	40-140	14.7	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0198</i>		<i>"</i>	<i>0.0333</i>		<i>59.3</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0202</i>		<i>"</i>	<i>0.0333</i>		<i>60.6</i>	<i>40-140</i>			

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

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

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

Batch BIA0302 - EPA 3050B

Blank (BIA0302-BLK1)

Prepared: 01/08/25 Analyzed: 01/11/25

Boron ND 2.00 mg/L

LCS (BIA0302-BS1)

Prepared: 01/08/25 Analyzed: 01/14/25

Boron 4.79 2.00 mg/L 5.00 95.9 80-120

Duplicate (BIA0302-DUP1)

Source: 2411482-01

Prepared: 01/08/25 Analyzed: 01/14/25

Boron 0.335 2.00 mg/L 0.397 16.9 20

Matrix Spike (BIA0302-MS1)

Source: 2411482-01

Prepared: 01/08/25 Analyzed: 01/14/25

Boron 4.96 2.00 mg/L 5.00 0.397 91.2 75-125

Matrix Spike Dup (BIA0302-MSD1)

Source: 2411482-01

Prepared: 01/08/25 Analyzed: 01/14/25

Boron 5.25 2.00 mg/L 5.00 0.397 97.0 75-125 5.65 25

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA0223 - EPA 3050B

Blank (BIA0223-BLK1)

Prepared: 01/07/25 Analyzed: 01/16/25

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 (BIA0223-BS1)

Prepared: 01/07/25 Analyzed: 01/16/25

Arsenic	36.2	0.200	mg/kg wet	39.4	91.8	80-120
Barium	37.8	0.400	"	39.4	96.0	80-120
Cadmium	1.91	0.200	"	1.97	96.9	80-120
Copper	40.5	0.400	"	39.4	103	80-120
Lead	19.0	0.200	"	19.7	96.5	80-120
Nickel	40.0	0.400	"	39.4	102	80-120
Silver	1.91	0.0200	"	1.97	97.2	80-120
Zinc	40.1	0.400	"	39.4	102	80-120
Selenium	3.89	0.260	"	3.94	98.7	80-120

Duplicate (BIA0223-DUP1)

Source: 2411482-01

Prepared: 01/07/25 Analyzed: 01/16/25

Arsenic	5.72	0.200	mg/kg dry	5.75	0.419	20
Barium	149	0.400	"	147	1.82	20
Cadmium	0.413	0.200	"	0.429	3.69	20
Copper	7.11	0.400	"	7.54	5.79	20
Lead	11.6	0.200	"	11.8	2.10	20
Nickel	7.78	0.400	"	8.22	5.61	20
Silver	0.0584	0.0200	"	0.0663	12.7	20
Zinc	28.8	0.400	"	30.5	6.00	20
Selenium	0.279	0.260	"	0.273	2.27	20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

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 BIA0223 - EPA 3050B

Matrix Spike (BIA0223-MS1)	Source: 2411482-01			Prepared: 01/07/25		Analyzed: 01/16/25					
Arsenic	44.5	0.200	mg/kg dry	43.0	5.75	90.1	75-125				
Barium	186	0.400	"	43.0	147	91.5	75-125				
Cadmium	2.59	0.200	"	2.15	0.429	101	75-125				
Copper	30.0	0.400	"	43.0	7.54	52.2	75-125				QM-05
Lead	32.3	0.200	"	21.5	11.8	95.4	75-125				
Nickel	30.9	0.400	"	43.0	8.22	52.8	75-125				QM-05
Silver	2.17	0.0200	"	2.15	0.0663	97.8	75-125				
Zinc	52.5	0.400	"	43.0	30.5	51.0	75-125				QM-05
Selenium	3.58	0.260	"	4.30	0.273	77.0	75-125				

Matrix Spike Dup (BIA0223-MSD1)	Source: 2411482-01			Prepared: 01/07/25		Analyzed: 01/16/25					
Arsenic	45.4	0.200	mg/kg dry	45.1	5.75	87.9	75-125	2.03	25		
Barium	184	0.400	"	45.1	147	83.0	75-125	1.03	25		
Cadmium	2.54	0.200	"	2.25	0.429	93.6	75-125	2.00	25		
Copper	31.9	0.400	"	45.1	7.54	54.0	75-125	6.16	25		QM-05
Lead	31.7	0.200	"	22.5	11.8	88.4	75-125	1.82	25		
Nickel	32.9	0.400	"	45.1	8.22	54.7	75-125	6.14	25		QM-05
Silver	2.16	0.0200	"	2.25	0.0663	92.7	75-125	0.590	25		
Zinc	55.3	0.400	"	45.1	30.5	55.0	75-125	5.30	25		QM-05
Selenium	3.60	0.260	"	4.51	0.273	73.8	75-125	0.583	25		QM-05

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHL1249 - 3060A Mod

Blank (BHL1249-BLK1)

Prepared: 12/27/24 Analyzed: 12/30/24

Chromium, Hexavalent	ND	0.30	mg/kg wet								I-02
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LCS (BHL1249-BS1)

Prepared: 12/27/24 Analyzed: 12/30/24

Chromium, Hexavalent	22.6	0.30	mg/kg wet	25.0	90.4	80-120					I-02
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Duplicate (BHL1249-DUP1)

Source: 2411471-01

Prepared: 12/27/24 Analyzed: 12/30/24

Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20		I-02
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Matrix Spike (BHL1249-MS1)

Source: 2411471-01

Prepared: 12/27/24 Analyzed: 12/30/24

Chromium, Hexavalent	24.7	0.30	mg/kg dry	26.2	ND	94.4	75-125				I-02
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Matrix Spike Dup (BHL1249-MSD1)

Source: 2411471-01

Prepared: 12/27/24 Analyzed: 12/30/24

Chromium, Hexavalent	24.7	0.30	mg/kg dry	26.2	ND	94.2	75-125	0.212	20		I-02
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Summit Scientific

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

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 BHL0947 - General Preparation

Blank (BHL0947-BLK1)

Prepared: 12/19/24 Analyzed: 12/30/24

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

LCS (BHL0947-BS1)

Prepared: 12/19/24 Analyzed: 12/30/24

Calcium	5.58	0.0500	mg/L wet	5.00	112	70-130				
Magnesium	5.11	0.0500	"	5.00	102	70-130				
Sodium	5.12	0.0500	"	5.00	102	70-130				

Summit Scientific

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

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 BHL0690 - General Preparation

Duplicate (BHL0690-DUP1)	Source: 2411483-01		Prepared: 12/16/24 Analyzed: 12/17/24		
% Solids	84.7	%	85.7	1.22	20

Summit Scientific

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

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 BHL0962 - General Preparation

Blank (BHL0962-BLK1)

Prepared: 12/19/24 Analyzed: 12/30/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHL0962-BS1)

Prepared: 12/19/24 Analyzed: 12/30/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHL0962-DUP1)

Source: 2411483-01

Prepared: 12/19/24 Analyzed: 12/30/24

Specific Conductance (EC) 0.818 0.0100 mmhos/cm 0.837 2.22 20

Summit Scientific

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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
 Project Manager: Paul Henchan

Reported:
 01/16/25 12:37

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 BHL0953 - General Preparation

LCS (BHL0953-BS1)

Prepared: 12/19/24 Analyzed: 12/30/24

pH 9.07 pH Units 9.18 98.8 95-105

Duplicate (BHL0953-DUP1)

Source: 2411483-01

Prepared: 12/19/24 Analyzed: 12/30/24

pH 8.77 pH Units 8.81 0.455 20

Summit Scientific

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PO Box 1289
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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: UWRWE-A3469-ABN
Project Manager: Paul Henchan

Reported:
01/16/25 12:37

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- I-02 Sample was prepared outside of holding time.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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