

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 30, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

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

Work Order #2411371

Enclosed are the results of analyses for samples received by Summit Scientific on 11/20/24 17:48. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small "w" at the end of the last name.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV SBCEN - 6FT	2411371-01	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBCEN - 12FT	2411371-02	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBW - 10FT	2411371-03	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBW - 12FT	2411371-04	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBW01 - 5FT	2411371-05	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBW01 - 12FT	2411371-06	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBS - 6FT	2411371-07	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBS - 12FT	2411371-08	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBS01 - 6FT	2411371-09	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBS01 - 12FT	2411371-10	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBE - 6FT	2411371-11	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBE - 12FT	2411371-12	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBN - 6FT	2411371-13	Soil	11/20/24 17:48	11/20/24 17:48
PWV SBN - 12FT	2411371-14	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBCEN - 11FT	2411371-15	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBCEN - 12FT	2411371-16	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBS - 6FT	2411371-17	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBS - 12FT	2411371-18	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBS01 - 7FT	2411371-19	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBS01 - 12FT	2411371-20	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBW - 7FT	2411371-21	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBW - 12FT	2411371-22	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBW01 - 6FT	2411371-23	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBW01 - 12FT	2411371-24	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBN - 6FT	2411371-25	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBN - 12FT	2411371-26	Soil	11/20/24 17:48	11/20/24 17:48
SEP SBN01 - 6FT	2411371-27	Soil	11/20/24 17:48	11/20/24 17:48

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP SBN01 - 12FT	2411371-28	Soil	11/20/24 17:48	11/20/24 17:48

Summit Scientific

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

Lab ID: 2411371.1 Page 1 of 2

Client: Fremont Environmental		Project Manager: Paul Henehan		Company: Noble	
Address:		E-Mail: Fremont Distribution List		Project Name/Location:	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: Knaub-64N65W 9SWSW Facility(SI)		PO/Billing Codes: UWRWE-A346A-ABN	
Sampler Name: Stanley Gilbert		Project Number: CO24-021		Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate	Full Table 915-1 (681)
1	DWV SBCEW-6Ft	11/20/24		2			X			X									X	
2	DWV SBCEW-12Ft																			
3	DWV SBW-10Ft																			
4	DWV SBW-12Ft																			
5	DWV SBW01-5Ft																			
6	DWV SBW01-12Ft																			
7	DWV SBS-6Ft																			
8	DWV SBS-12Ft																			
9	DWV SBS01-6Ft																			
10	DWV SBS01-12Ft																			
11	DWV SBE-6Ft																			
12	DWV SBE-12Ft																			
13	DWV SBN-6Ft																			
14	DWV SBN-12Ft																			
15	SEP SBCEW-11Ft																			

Relinquished by:	Date/Time: 11/20/24 17:48	Received by:	Date/Time: 11/20/24 17:48	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 5.7	Corrected Temperature	IR gun #: 2	HNO3 lot #:			



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

Lab ID	Page <u>2</u> of <u>2</u>
<u>2411371.2</u>	

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan	Send Invoice To: Company: <u>Noble</u>
Address:		E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip:			AFE#:
Phone: 303-261-6246	Project Name: <u>Knaub-64N/65W 9SW5W Facility (SI)</u>		PO/Billing Codes: <u>UWRWE-A3469-ABN</u>
Sampler Name: Stanley Gilbert		Project Number: <u>C024-021</u>	Contact: <u>Dan Peterson</u>

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	SEP SBCEW-12Ft	11/20/24		2			X			X								X	
2	SEP SBS-6Ft																		
3	SEP SBS-12Ft																		
4	SEP SBS01-7Ft																		
5	SEP SBS01-12Ft																		
6	SEP SBW-7Ft																		
7	SEP SBW-12Ft																		
8	SEP SBW01-6Ft																		
9	SEP SBW01-12Ft																		
10	SEP SBN-6Ft																		
11	SEP SBN-12Ft																		
12	SEP SBN01-6Ft																		
13	SEP SBN01-12Ft																		
14																			
15																			

Relinquished by:	Date/Time: 11/20/24 17:48	Received by:	Date/Time: 11/20/24 17:48	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>5.7</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2411371

Client: Fremont Client Project ID: Noble - KnauB-64NB5W

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: 9SWSW Facility (SI)

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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

11/20/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBCEN - 6FT
2411371-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	11/27/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.066	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.34	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.1	0.0050	"	"	"	"	12/03/24	"	E
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	11/27/24	"	
Naphthalene	0.048	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	20	0.50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0366	91.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0500	125 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0727	182 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.3	114 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: C024-021
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12/30/24 10:00

PWV SBCEN - 6FT
2411371-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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	0.0748	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.172	0.00500	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0244	73.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: C024-021
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12/30/24 10:00

PWV SBCEN - 6FT
2411371-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.50	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	51.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.52	0.400	"	"	"	"	"	"	
Lead	4.85	0.200	"	"	"	"	"	"	
Nickel	3.15	0.400	"	"	"	"	"	"	
Silver	0.0252	0.0200	"	"	"	"	"	"	
Zinc	16.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	193	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	24.4	0.0500	"	"	"	"	"	"	
Sodium	34.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.622	0.00100	units	1	BHL1242	12/27/24	12/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 12/30/24 10:00

PWV SBCEN - 6FT
2411371-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.8		%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

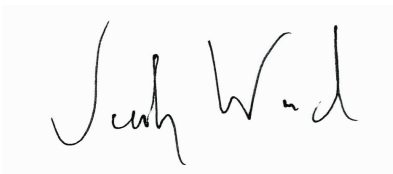
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.304	0.0100	mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

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Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBCEN - 12FT
2411371-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	12/02/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0351	87.8 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	12.1	96.7 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBCEN - 12FT
2411371-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	61.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBCEN - 12FT
2411371-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.05	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	23.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.33	0.400	"	"	"	"	"	"	
Lead	3.18	0.200	"	"	"	"	"	"	
Nickel	2.31	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.1	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	7.26	0.0500	"	"	"	"	"	"	
Sodium	38.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.67	0.00100	units	1	BHL1242	12/27/24	12/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBCEN - 12FT
2411371-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.6		%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

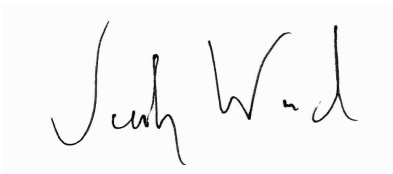
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.516	0.0100	mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW - 10FT
2411371-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.20	0.0020	mg/kg	1	BHK1325	11/26/24	11/27/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.37	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.099	0.050	"	10	"	"	12/03/24	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	1	"	"	11/27/24	"	
Naphthalene	0.047	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	68	0.50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0387	96.8 %	50-150	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.149	374 %	50-150	"	"	"	"	"	S-02
<i>Surrogate: 4-Bromofluorobenzene</i>	0.113	284 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	14.1	113 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW - 10FT
2411371-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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	0.0243	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0593	0.00500	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0245	73.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0231	69.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW - 10FT
2411371-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.33	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	36.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.18	0.400	"	"	"	"	"	"	
Lead	4.08	0.200	"	"	"	"	"	"	
Nickel	3.54	0.400	"	"	"	"	"	"	
Silver	0.0222	0.0200	"	"	"	"	"	"	
Zinc	14.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	143	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	25.1	0.0500	"	"	"	"	"	"	
Sodium	56.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.15	0.00100	units	1	BHL1242	12/27/24	12/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBW - 10FT
2411371-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.736	0.0100	mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW - 12FT
2411371-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	12/02/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0414	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.9	111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW - 12FT
2411371-04 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0210	63.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	58.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW - 12FT
2411371-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.868	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	27.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.11	0.400	"	"	"	"	"	"	
Lead	2.72	0.200	"	"	"	"	"	"	
Nickel	2.02	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.85	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.1	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	7.08	0.0500	"	"	"	"	"	"	
Sodium	57.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.53	0.00100	units	1	BHL1242	12/27/24	12/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBW - 12FT
2411371-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.230	0.0100	mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW01 - 5FT
2411371-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK1325	11/26/24	11/27/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0388	97.1 %		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: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	200	50		mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.1	97.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW01 - 5FT
2411371-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0250	75.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0237	71.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW01 - 5FT
2411371-05 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.67	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	83.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.27	0.400	"	"	"	"	"	"	
Lead	8.11	0.200	"	"	"	"	"	"	
Nickel	4.80	0.400	"	"	"	"	"	"	
Silver	0.0477	0.0200	"	"	"	"	"	"	
Zinc	21.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	105	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	11.1	0.0500	"	"	"	"	"	"	
Sodium	28.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.702	0.00100	units	1	BHL1242	12/27/24	12/27/24	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: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBW01 - 5FT
2411371-05 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.1		%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

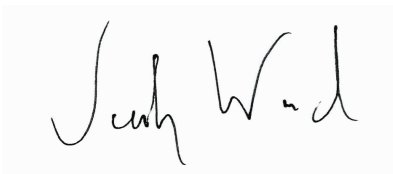
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.447	0.0100	mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW01 - 12FT
2411371-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	11/27/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0373	93.2 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.4 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	14.5	116 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBW01 - 12FT
2411371-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBW01 - 12FT
2411371-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.857	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	28.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.11	0.400	"	"	"	"	"	"	
Lead	2.77	0.200	"	"	"	"	"	"	
Nickel	1.71	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.06	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.8	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	6.83	0.0500	"	"	"	"	"	"	
Sodium	37.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.75	0.00100	units	1	BHL1242	12/27/24	12/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBW01 - 12FT
2411371-06 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.302	0.0100	mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBS - 6FT
2411371-07 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	11/27/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.032	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.11	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.60	0.0050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	0.050	0.0050	"	"	"	"	"	"	
Naphthalene	0.018	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.1	0.50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0370	92.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0500	125 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0492	123 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	180	50	mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.1	121 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBS - 6FT
2411371-07 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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	0.0236	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0564	0.00500	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0227	68.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	63.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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 9SWSW Facility (SI)

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBS - 6FT
2411371-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.16	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	33.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.62	0.400	"	"	"	"	"	"	
Lead	3.95	0.200	"	"	"	"	"	"	
Nickel	2.48	0.400	"	"	"	"	"	"	
Silver	0.0332	0.0200	"	"	"	"	"	"	
Zinc	12.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	139	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	20.0	0.0500	"	"	"	"	"	"	
Sodium	30.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.634	0.00100	units	1	BHL1242	12/27/24	12/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBS - 6FT
2411371-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	91.1			%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.375	0.0100		mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.44			pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBS - 12FT
2411371-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK1325	11/26/24	11/27/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0356	88.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	15.1	121 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBS - 12FT
2411371-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0257	77.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0243	72.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBS - 12FT
2411371-08 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.01	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	30.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.06	0.400	"	"	"	"	"	"	
Lead	2.98	0.200	"	"	"	"	"	"	
Nickel	2.03	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.7	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	6.11	0.0500	"	"	"	"	"	"	
Sodium	48.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.16	0.00100	units	1	BHL1242	12/27/24	12/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

**PWV SBS - 12FT
2411371-08 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.7			%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.548	0.0100		mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.13			pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

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Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBS01 - 6FT
2411371-09 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK1325	11/26/24	11/27/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0350	87.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.1 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	120	50		mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	15.0	120 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBS01 - 6FT
2411371-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0244	73.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0242	72.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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2411371-09 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.27	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	40.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.19	0.400	"	"	"	"	"	"	
Lead	3.91	0.200	"	"	"	"	"	"	
Nickel	3.09	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	129	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	40.9	0.0500	"	"	"	"	"	"	
Sodium	114	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.24	0.00100	units	1	BHL1242	12/27/24	12/27/24	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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

**PWV SBS01 - 6FT
2411371-09 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.25	0.0100	mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.65		pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBS01 - 12FT
2411371-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK1325	11/26/24	11/27/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0376	93.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.3	115 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBS01 - 12FT
2411371-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0234	70.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**PWV SBS01 - 12FT
 2411371-10 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.00	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	35.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.08	0.400	"	"	"	"	"	"	
Lead	2.84	0.200	"	"	"	"	"	"	
Nickel	2.00	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.1	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	5.37	0.0500	"	"	"	"	"	"	
Sodium	43.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.18	0.00100	units	1	BHL1242	12/27/24	12/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**PWV SBS01 - 12FT
 2411371-10 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	89.4			%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.824	0.0100		mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.09			pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBE - 6FT
2411371-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	11/27/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0385	96.3 %	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: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	13.6	108 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBE - 6FT
2411371-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0243	72.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0227	68.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBE - 6FT
2411371-11 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.35	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	50.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.46	0.400	"	"	"	"	"	"	
Lead	4.42	0.200	"	"	"	"	"	"	
Nickel	3.71	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	15.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	250	0.0500	mg/L dry	1	BHL0846	12/18/24	12/24/24	EPA 6020B	
Magnesium	78.0	0.0500	"	"	"	"	"	"	
Sodium	85.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.21	0.00100	units	1	BHL1242	12/27/24	12/27/24	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: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

PWV SBE - 6FT
2411371-11 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.6			%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

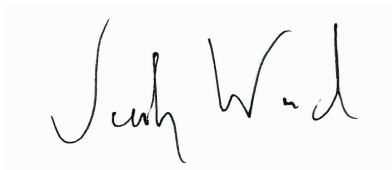
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.337	0.0100		mmhos/cm	1	BHL0860	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.57			pH Units	1	BHL0855	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBE - 12FT
2411371-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	11/27/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.4 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	12.8	103 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBE - 12FT
2411371-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0157	47.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0158	47.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBE - 12FT
2411371-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.66	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	49.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.12	0.400	"	"	"	"	"	"	
Lead	4.04	0.200	"	"	"	"	"	"	
Nickel	3.54	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	16.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.8	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	11.9	0.0500	"	"	"	"	"	"	
Sodium	48.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.75	0.00100	units	1	BHL1196	12/26/24	12/26/24	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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBE - 12FT
2411371-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.1			%	1	BHL0356	12/09/24	12/09/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.452	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.30			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

Summit Scientific



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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBN - 6FT
2411371-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	11/27/24	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	3.3	0.50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0384	96.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0425	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.3	115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBN - 6FT
2411371-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0167	50.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0216	64.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0590	12/13/24	12/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

**PWV SBN - 6FT
2411371-13 (Soil)**

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.49	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	88.0	0.400	"	"	"	"	"	"	
Cadmium	0.235	0.200	"	"	"	"	"	"	
Copper	5.02	0.400	"	"	"	"	"	"	
Lead	8.21	0.200	"	"	"	"	"	"	
Nickel	7.13	0.400	"	"	"	"	"	"	
Silver	0.0520	0.0200	"	"	"	"	"	"	
Zinc	23.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	70.8	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	19.3	0.0500	"	"	"	"	"	"	
Sodium	52.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.42	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/20/24 17:48

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: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**PWV SBN - 6FT
 2411371-13 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.3	%	1	BHL0363	12/09/24	12/11/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.359	0.0100	mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.44		pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBN - 12FT
2411371-14 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK1325	11/26/24	11/27/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0364	91.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK1321	11/26/24	12/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.9	111 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

PWV SBN - 12FT
2411371-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0148	44.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

**PWV SBN - 12FT
2411371-14 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.42	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	41.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.79	0.400	"	"	"	"	"	"	
Lead	3.99	0.200	"	"	"	"	"	"	
Nickel	3.63	0.400	"	"	"	"	"	"	
Silver	0.0360	0.0200	"	"	"	"	"	"	
Zinc	14.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.2	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	8.42	0.0500	"	"	"	"	"	"	
Sodium	47.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.03	0.00100	units	1	BHL1196	12/26/24	12/26/24	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: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**PWV SBN - 12FT
 2411371-14 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.52	0.0100	mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBCEN - 11FT
2411371-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.20	mg/kg	100	BHK1325	11/26/24	11/27/24	EPA 8260B	R-05
Toluene	ND	0.50	"	"	"	"	"	"	R-05
Ethylbenzene	1.4	0.50	"	"	"	"	"	"	
Xylenes (total)	26	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	11	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	8.0	0.50	"	"	"	"	"	"	
Naphthalene	0.61	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	530	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0389	97.3 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0478	119 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0443	111 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>	14.9	119 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBCEN - 11FT
2411371-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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	0.0138	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.138	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.308	0.00500	"	"	"	"	"	"	E

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0142	42.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0158	47.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBCEN - 11FT
2411371-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.23	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	40.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.82	0.400	"	"	"	"	"	"	
Lead	3.76	0.200	"	"	"	"	"	"	
Nickel	2.99	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.3	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	2.72	0.0500	"	"	"	"	"	"	
Sodium	52.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.40	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**SEP SBCEN - 11FT
 2411371-15 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	82.9			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.998	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.44			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBCEN - 12FT
2411371-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	11/27/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0368	92.0 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.4 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	14.3	114 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

SEP SBCEN - 12FT
2411371-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBCEN - 12FT
2411371-16 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.60	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	73.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.32	0.400	"	"	"	"	"	"	
Lead	5.32	0.200	"	"	"	"	"	"	
Nickel	5.06	0.400	"	"	"	"	"	"	
Silver	0.0206	0.0200	"	"	"	"	"	"	
Zinc	20.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.4	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	3.74	0.0500	"	"	"	"	"	"	
Sodium	48.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.70	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**SEP SBCEN - 12FT
 2411371-16 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	83.8			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.21	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.13			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS - 6FT
2411371-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.51	0.20		mg/kg	100	BHK1325	11/26/24	12/03/24	EPA 8260B	
Toluene	17	0.50		"	"	"	"	"	"	
Ethylbenzene	6.8	0.50		"	"	"	"	"	"	
Xylenes (total)	110	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	48	0.50		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	19	0.50		"	"	"	"	"	"	
Naphthalene	5.9	0.38		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1700	50		"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0517	129 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0601	150 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK1321	11/26/24	12/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	15.8	127 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS - 6FT
2411371-17 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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	0.0477	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.423	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.824	0.00500	"	"	"	"	"	"	E

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0365	109 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	63.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS - 6FT
2411371-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.691	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	31.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.48	0.400	"	"	"	"	"	"	
Lead	3.12	0.200	"	"	"	"	"	"	
Nickel	2.35	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.1	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	11.3	0.0500	"	"	"	"	"	"	
Sodium	88.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.02	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**SEP SBS - 6FT
 2411371-17 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	86.0			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.330	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.70			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS - 12FT
2411371-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	12/02/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0376	93.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	13.4	107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS - 12FT
2411371-18 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0197	59.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: Noble - Knaub 64N65W 9SWSW Facility (SI)

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS - 12FT
2411371-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.52	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	55.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.81	0.400	"	"	"	"	"	"	
Lead	4.26	0.200	"	"	"	"	"	"	
Nickel	3.27	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	15.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.5	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	8.22	0.0500	"	"	"	"	"	"	
Sodium	50.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.20	0.00100	units	1	BHL1196	12/26/24	12/26/24	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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

**SEP SBS - 12FT
2411371-18 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.7		%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.380	0.0100	mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS01 - 7FT
2411371-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	11/27/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.10	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.4	0.010	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	1.9	0.050	"	10	"	"	12/03/24	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	1	"	"	11/27/24	"	
Naphthalene	0.063	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	13	5.0	"	10	"	"	12/03/24	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0378	94.6 %	50-150	"	"	"	11/27/24	"	
Surrogate: Toluene-d8	0.0461	115 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.522	1310 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS01 - 7FT
2411371-19 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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	0.00606	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0306	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0460	0.00500	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0211	63.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS01 - 7FT
2411371-19 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.12	0.200	mg/kg dry	1	BHL0393	12/10/24	12/14/24	EPA 6020B	
Barium	23.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.94	0.400	"	"	"	"	"	"	
Lead	2.95	0.200	"	"	"	"	"	"	
Nickel	2.55	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.72	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	154	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	41.3	0.0500	"	"	"	"	"	"	
Sodium	120	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.22	0.00100	units	1	BHL1196	12/26/24	12/26/24	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: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**SEP SBS01 - 7FT
 2411371-19 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.7			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.415	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	5.55			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

Summit Scientific

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS01 - 12FT
2411371-20 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1325	11/26/24	12/03/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0355	88.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1321	11/26/24	12/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	13.1	104 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS01 - 12FT
2411371-20 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1363	11/27/24	11/29/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0169	50.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	52.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBS01 - 12FT
2411371-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.729	0.200	mg/kg dry	1	BHL0394	12/10/24	12/14/24	EPA 6020B	
Barium	22.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.73	0.400	"	"	"	"	"	"	
Lead	2.19	0.200	"	"	"	"	"	"	
Nickel	1.71	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.44	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0608	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.0	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	6.40	0.0500	"	"	"	"	"	"	
Sodium	55.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.47	0.00100	units	1	BHL1196	12/26/24	12/26/24	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: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**SEP SBS01 - 12FT
 2411371-20 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.0			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.90	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.29			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
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Project: Noble - Knaub 64N65W 9SWW Facility (SI)

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW - 7FT
2411371-21 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.20	mg/kg	100	BHK1326	11/26/24	11/28/24	EPA 8260B	R-05
Toluene	ND	0.50	"	"	"	"	"	"	R-05
Ethylbenzene	8.5	0.50	"	"	"	"	"	"	
Xylenes (total)	110	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	49	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	36	0.50	"	"	"	"	"	"	
Naphthalene	1.6	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2400	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0366	91.6 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0659	165 %	50-150	"	"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0657	164 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1322	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.4	91.2 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW - 7FT
2411371-21 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1364	11/27/24	11/28/24	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	0.0488	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00555	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	1.22	0.0500	"	10	"	"	12/04/24	"	
2-Methylnaphthalene	3.19	0.0500	"	"	"	"	"	"	E

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0354	106 %	40-140		"	"	11/28/24	"	
Surrogate: Fluoranthene-d10	0.0253	75.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW - 7FT
2411371-21 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.648	0.200	mg/kg dry	1	BHL0394	12/10/24	12/14/24	EPA 6020B	
Barium	35.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.45	0.400	"	"	"	"	"	"	
Lead	3.14	0.200	"	"	"	"	"	"	
Nickel	2.61	0.400	"	"	"	"	"	"	
Silver	0.0225	0.0200	"	"	"	"	"	"	
Zinc	11.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0609	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5.94	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	1.86	0.0500	"	"	"	"	"	"	
Sodium	72.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.62	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

SEP SBW - 7FT
2411371-21 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.6			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.33	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.70			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW - 12FT
2411371-22 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK1326	11/26/24	11/28/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0364	91.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK1322	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.0	80.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

SEP SBW - 12FT
2411371-22 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1364	11/27/24	11/28/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0229	68.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0218	65.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW - 12FT
2411371-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.06	0.200	mg/kg dry	1	BHL0394	12/10/24	12/14/24	EPA 6020B	
Barium	30.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.31	0.400	"	"	"	"	"	"	
Lead	3.22	0.200	"	"	"	"	"	"	
Nickel	2.64	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0609	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.5	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	4.36	0.0500	"	"	"	"	"	"	
Sodium	53.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.66	0.00100	units	1	BHL1196	12/26/24	12/26/24	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: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

SEP SBW - 12FT
2411371-22 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.7			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.882	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.45			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW01 - 6FT
2411371-23 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1326	11/26/24	11/28/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	4.5	0.50	"	100	"	"	12/03/24	"	
Xylenes (total)	0.69	0.010	"	1	"	"	11/28/24	"	
1,2,4-Trimethylbenzene	34	0.50	"	100	"	"	12/03/24	"	
1,3,5-Trimethylbenzene	20	0.50	"	"	"	"	"	"	
Naphthalene	0.079	0.0038	"	1	"	"	11/28/24	"	
Gasoline Range Hydrocarbons	1300	50	"	100	"	"	12/03/24	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0404	101 %	50-150	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0594	148 %	50-150	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0540	135 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1322	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>	11.4	91.4 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW01 - 6FT
2411371-23 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1364	11/27/24	11/28/24	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	0.0296	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.370	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.817	0.00500	"	"	"	"	"	"	E

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0254	76.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0207	62.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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 9SWSW Facility (SI)

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW01 - 6FT
2411371-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.14	0.200	mg/kg dry	1	BHL0394	12/10/24	12/14/24	EPA 6020B	
Barium	33.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.60	0.400	"	"	"	"	"	"	
Lead	3.46	0.200	"	"	"	"	"	"	
Nickel	3.18	0.400	"	"	"	"	"	"	
Silver	0.0231	0.0200	"	"	"	"	"	"	
Zinc	11.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0609	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5.57	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	1.22	0.0500	"	"	"	"	"	"	
Sodium	50.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.06	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW01 - 6FT
2411371-23 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.9			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.365	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.43			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW01 - 12FT
2411371-24 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1326	11/26/24	12/03/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0384	95.9 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	101 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1322	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.6	92.9 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW01 - 12FT
2411371-24 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1364	11/27/24	11/28/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	62.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBW01 - 12FT
2411371-24 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.25	0.200	mg/kg dry	1	BHL0394	12/10/24	12/14/24	EPA 6020B	
Barium	55.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.73	0.400	"	"	"	"	"	"	
Lead	4.14	0.200	"	"	"	"	"	"	
Nickel	3.33	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0609	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.3	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	6.77	0.0500	"	"	"	"	"	"	
Sodium	53.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.42	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

SEP SBW01 - 12FT
2411371-24 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.3		%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.387	0.0100	mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN - 6FT
2411371-25 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK1326	11/26/24	11/28/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.011	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.089	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.45	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.34	0.0050	"	"	"	"	"	"	
Naphthalene	0.026	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	20	0.50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0370	92.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0516	129 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0848	212 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1322	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.9	87.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN - 6FT
2411371-25 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1364	11/27/24	11/28/24	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	0.00805	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0796	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.202	0.00500	"	"	"	"	"	"	E

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0193	57.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0196	58.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN - 6FT
2411371-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.47	0.200	mg/kg dry	1	BHL0394	12/10/24	12/14/24	EPA 6020B	
Barium	48.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.76	0.400	"	"	"	"	"	"	
Lead	4.87	0.200	"	"	"	"	"	"	
Nickel	3.67	0.400	"	"	"	"	"	"	
Silver	0.0297	0.0200	"	"	"	"	"	"	
Zinc	16.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0609	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.1	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	5.71	0.0500	"	"	"	"	"	"	
Sodium	10.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.384	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**SEP SBN - 6FT
 2411371-25 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	86.8			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**

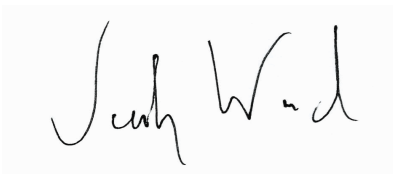
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.422	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.02			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN - 12FT
2411371-26 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK1326	11/26/24	12/03/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0386	96.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK1322	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.1	80.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN - 12FT
2411371-26 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1364	11/27/24	11/28/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0164	49.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0165	49.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN - 12FT
2411371-26 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.24	0.200	mg/kg dry	1	BHL0394	12/10/24	12/14/24	EPA 6020B	
Barium	39.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.68	0.400	"	"	"	"	"	"	
Lead	3.85	0.200	"	"	"	"	"	"	
Nickel	2.83	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0609	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.5	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	11.7	0.0500	"	"	"	"	"	"	
Sodium	107	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.72	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
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 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**SEP SBN - 12FT
 2411371-26 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.4		%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.07	0.0100	mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN01 - 6FT
2411371-27 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK1326	11/26/24	11/28/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0381	95.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	106 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK1322	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.1	81.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

SEP SBN01 - 6FT
2411371-27 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1364	11/27/24	11/28/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0212	63.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0200	60.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN01 - 6FT
2411371-27 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.881	0.200	mg/kg dry	1	BHL0394	12/10/24	12/14/24	EPA 6020B	
Barium	28.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.09	0.400	"	"	"	"	"	"	
Lead	2.96	0.200	"	"	"	"	"	"	
Nickel	2.48	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0609	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8.52	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	2.89	0.0500	"	"	"	"	"	"	
Sodium	22.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.71	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**SEP SBN01 - 6FT
 2411371-27 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.7			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.424	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.41			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN01 - 12FT
2411371-28 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1326	11/26/24	11/28/24	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: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0371	92.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1322	11/26/24	12/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.5	84.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN01 - 12FT
2411371-28 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1364	11/27/24	11/28/24	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: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0162	48.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0166	49.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0591	12/13/24	12/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/20/24 17:48**

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

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

SEP SBN01 - 12FT
2411371-28 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.02	0.200	mg/kg dry	1	BHL0394	12/10/24	12/14/24	EPA 6020B	
Barium	42.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.53	0.400	"	"	"	"	"	"	
Lead	3.62	0.200	"	"	"	"	"	"	
Nickel	2.50	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0609	12/13/24	12/13/24	EPA 7196A	

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

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.2	0.0500	mg/L dry	1	BHL0847	12/18/24	12/24/24	EPA 6020B	
Magnesium	4.46	0.0500	"	"	"	"	"	"	
Sodium	52.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/20/24 17:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.78	0.00100	units	1	BHL1196	12/26/24	12/26/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

**SEP SBN01 - 12FT
 2411371-28 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.6			%	1	BHL0363	12/09/24	12/11/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/20/24 17:48**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.352	0.0100		mmhos/cm	1	BHL0861	12/18/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/20/24 17:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.51			pH Units	1	BHL0853	12/18/24	12/23/24	EPA 9045D	

Summit Scientific



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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHK1325 - EPA 5030 Soil MS

Blank (BHK1325-BLK1)

Prepared: 11/26/24 Analyzed: 11/27/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.7	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

LCS (BHK1325-BS1)

Prepared: 11/26/24 Analyzed: 11/27/24

Benzene	0.106	0.0020	mg/kg	0.100		106	70-130			
Toluene	0.113	0.0050	"	0.100		113	70-130			
Ethylbenzene	0.117	0.0050	"	0.100		117	70-130			
m,p-Xylene	0.226	0.010	"	0.200		113	70-130			
o-Xylene	0.107	0.0050	"	0.100		107	70-130			
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100		116	70-130			
Naphthalene	0.0937	0.0038	"	0.100		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0380		"	0.0400		95.0	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

Matrix Spike (BHK1325-MS1)

Source: 2411371-01

Prepared: 11/26/24 Analyzed: 11/27/24

Benzene	0.108	0.0020	mg/kg	0.100	ND	108	70-130			
Toluene	0.105	0.0050	"	0.100	ND	105	70-130			
Ethylbenzene	0.170	0.0050	"	0.100	0.0661	104	70-130			
m,p-Xylene	0.512	0.010	"	0.200	0.341	85.3	70-130			
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130			
1,2,4-Trimethylbenzene	1.10	0.0050	"	0.100	1.14	NR	70-130			E, QM-02
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
Naphthalene	0.142	0.0038	"	0.100	0.0477	94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0393		"	0.0400		98.2	50-150			
Surrogate: Toluene-d8	0.0508		"	0.0400		127	50-150			
Surrogate: 4-Bromofluorobenzene	0.0587		"	0.0400		147	50-150			

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHK1325 - EPA 5030 Soil MS

Matrix Spike Dup (BHK1325-MSD1)

Source: 2411371-01

Prepared: 11/26/24 Analyzed: 11/27/24

Benzene	0.111	0.0020	mg/kg	0.100	ND	111	70-130	3.13	30	
Toluene	0.104	0.0050	"	0.100	ND	104	70-130	0.920	30	
Ethylbenzene	0.175	0.0050	"	0.100	0.0661	109	70-130	2.80	30	
m,p-Xylene	0.541	0.010	"	0.200	0.341	100	70-130	5.62	30	
o-Xylene	0.0997	0.0050	"	0.100	ND	99.7	70-130	1.76	30	
1,2,4-Trimethylbenzene	1.12	0.0050	"	0.100	1.14	NR	70-130	2.33	30	E, QM-02
1,3,5-Trimethylbenzene	0.0990	0.0050	"	0.100	ND	99.0	70-130	3.84	30	
Naphthalene	0.131	0.0038	"	0.100	0.0477	83.2	70-130	8.37	30	
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0400		97.0	50-150			
Surrogate: Toluene-d8	0.0545		"	0.0400		136	50-150			
Surrogate: 4-Bromofluorobenzene	0.0635		"	0.0400		159	50-150			S-02

Batch BHK1326 - EPA 5030 Soil MS

Blank (BHK1326-BLK1)

Prepared: 11/26/24 Analyzed: 11/28/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0369		"	0.0400		92.3	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHK1326 - EPA 5030 Soil MS

LCS (BHK1326-BS1)

Prepared: 11/26/24 Analyzed: 11/28/24

Benzene	0.0955	0.0020	mg/kg	0.100		95.5	70-130			
Toluene	0.100	0.0050	"	0.100		100	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.203	0.010	"	0.200		102	70-130			
o-Xylene	0.0996	0.0050	"	0.100		99.6	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
Naphthalene	0.0953	0.0038	"	0.100		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0356		"	0.0400		89.1	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	50-150			

Matrix Spike (BHK1326-MS1)

Source: 2411366-01

Prepared: 11/26/24 Analyzed: 11/28/24

Benzene	0.109	0.0020	mg/kg	0.100	ND	109	70-130			
Toluene	0.0998	0.0050	"	0.100	ND	99.8	70-130			
Ethylbenzene	2.63	0.0050	"	0.100	ND	NR	70-130			QM-02
m,p-Xylene	0.566	0.010	"	0.200	ND	283	70-130			QM-02
o-Xylene	0.0964	0.0050	"	0.100	ND	96.4	70-130			
1,2,4-Trimethylbenzene	5.94	0.0050	"	0.100	ND	NR	70-130			QM-02
1,3,5-Trimethylbenzene	5.42	0.0050	"	0.100	ND	NR	70-130			QM-02
Naphthalene	0.166	0.0038	"	0.100	ND	166	70-130			QM-02
Surrogate: 1,2-Dichloroethane-d4	0.0535		"	0.0400		134	50-150			
Surrogate: Toluene-d8	1.20		"	0.0400		NR	50-150			S-02
Surrogate: 4-Bromofluorobenzene	0.777		"	0.0400		NR	50-150			S-02

Matrix Spike Dup (BHK1326-MSD1)

Source: 2411366-01

Prepared: 11/26/24 Analyzed: 11/28/24

Benzene	0.118	0.0020	mg/kg	0.100	ND	118	70-130	8.07	30	
Toluene	0.101	0.0050	"	0.100	ND	101	70-130	1.49	30	
Ethylbenzene	3.11	0.0050	"	0.100	ND	NR	70-130	16.8	30	QM-02
m,p-Xylene	0.667	0.010	"	0.200	ND	333	70-130	16.3	30	QM-02
o-Xylene	0.0944	0.0050	"	0.100	ND	94.4	70-130	2.11	30	
1,2,4-Trimethylbenzene	ND	0.0050	"	0.100	ND		70-130	200	30	QM-02
1,3,5-Trimethylbenzene	6.10	0.0050	"	0.100	ND	NR	70-130	11.8	30	QM-02
Naphthalene	0.123	0.0038	"	0.100	ND	123	70-130	29.7	30	
Surrogate: 1,2-Dichloroethane-d4	0.0726		"	0.0400		181	50-150			S-02
Surrogate: Toluene-d8	0.821		"	0.0400		NR	50-150			S-02
Surrogate: 4-Bromofluorobenzene	1.02		"	0.0400		NR	50-150			S-02

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHK1321 - EPA 3550A

Blank (BHK1321-BLK1)

Prepared: 11/26/24 Analyzed: 12/01/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	14.0		"	12.5	112		30-150			

LCS (BHK1321-BS1)

Prepared: 11/26/24 Analyzed: 12/01/24

C10-C28 (DRO)	518	50	mg/kg	500	104		70-130			
Surrogate: <i>o</i> -Terphenyl	11.1		"	12.5	88.7		30-150			

Matrix Spike (BHK1321-MS1)

Source: 2411371-01

Prepared: 11/26/24 Analyzed: 12/01/24

C10-C28 (DRO)	539	50	mg/kg	500	27.4	102	70-130			
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5	93.0		30-150			

Matrix Spike Dup (BHK1321-MSD1)

Source: 2411371-01

Prepared: 11/26/24 Analyzed: 12/01/24

C10-C28 (DRO)	530	50	mg/kg	500	27.4	100	70-130	1.72	20	
Surrogate: <i>o</i> -Terphenyl	11.1		"	12.5	88.7		30-150			

Batch BHK1322 - EPA 3550A

Blank (BHK1322-BLK1)

Prepared: 11/26/24 Analyzed: 12/01/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5	107		30-150			

LCS (BHK1322-BS1)

Prepared: 11/26/24 Analyzed: 12/01/24

C10-C28 (DRO)	417	50	mg/kg	500	83.3		70-130			
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5	84.2		30-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHK1322 - EPA 3550A

Matrix Spike (BHK1322-MS1)

Source: 2411371-23

Prepared: 11/26/24 Analyzed: 12/01/24

C10-C28 (DRO)	427	50	mg/kg	500	24.4	80.5	70-130			
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5		83.9	30-150			


Matrix Spike Dup (BHK1322-MSD1)

Source: 2411371-23

Prepared: 11/26/24 Analyzed: 12/01/24

C10-C28 (DRO)	429	50	mg/kg	500	24.4	80.8	70-130	0.385	20	
Surrogate: <i>o</i> -Terphenyl	10.6		"	12.5		85.1	30-150			

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHK1363 - EPA 5030 Soil MS

Blank (BHK1363-BLK1)

Prepared: 11/27/24 Analyzed: 11/29/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0244</i>		<i>"</i>	<i>0.0333</i>		<i>73.2</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0241</i>		<i>"</i>	<i>0.0333</i>		<i>72.4</i>	<i>40-140</i>			

LCS (BHK1363-BS1)

Prepared: 11/27/24 Analyzed: 11/29/24

Acenaphthene	0.0255	0.00500	mg/kg	0.0333		76.4	40-140			
Anthracene	0.0256	0.00500	"	0.0333		76.8	40-140			
Benzo (a) anthracene	0.0267	0.00500	"	0.0333		80.0	40-140			
Benzo (a) pyrene	0.0235	0.00500	"	0.0333		70.4	40-140			
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333		77.0	40-140			
Benzo (k) fluoranthene	0.0263	0.00500	"	0.0333		78.9	40-140			
Chrysene	0.0260	0.00500	"	0.0333		78.1	40-140			
Dibenz (a,h) anthracene	0.0197	0.00500	"	0.0333		59.0	40-140			
Fluoranthene	0.0254	0.00500	"	0.0333		76.1	40-140			
Fluorene	0.0260	0.00500	"	0.0333		77.9	40-140			
Indeno (1,2,3-cd) pyrene	0.0174	0.00500	"	0.0333		52.2	40-140			
Pyrene	0.0311	0.00500	"	0.0333		93.4	40-140			
1-Methylnaphthalene	0.0268	0.00500	"	0.0333		80.4	40-140			
2-Methylnaphthalene	0.0253	0.00500	"	0.0333		76.0	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0282</i>		<i>"</i>	<i>0.0333</i>		<i>84.7</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0260</i>		<i>"</i>	<i>0.0333</i>		<i>78.1</i>	<i>40-140</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHK1363 - EPA 5030 Soil MS

Matrix Spike (BHK1363-MS1)

Source: 2411371-02

Prepared: 11/27/24 Analyzed: 11/29/24

Acenaphthene	0.0215	0.00500	mg/kg	0.0333	ND	64.5	40-140			
Anthracene	0.0217	0.00500	"	0.0333	ND	65.1	40-140			
Benzo (a) anthracene	0.0229	0.00500	"	0.0333	ND	68.7	40-140			
Benzo (a) pyrene	0.0204	0.00500	"	0.0333	ND	61.1	40-140			
Benzo (b) fluoranthene	0.0224	0.00500	"	0.0333	ND	67.1	40-140			
Benzo (k) fluoranthene	0.0235	0.00500	"	0.0333	ND	70.4	40-140			
Chrysene	0.0223	0.00500	"	0.0333	ND	66.8	40-140			
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	40-140			
Fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	40-140			
Fluorene	0.0222	0.00500	"	0.0333	ND	66.6	40-140			
Indeno (1,2,3-cd) pyrene	0.0142	0.00500	"	0.0333	ND	42.7	40-140			
Pyrene	0.0277	0.00500	"	0.0333	ND	83.0	40-140			
1-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.6	40-140			
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.2	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0223		"	0.0333		66.8	40-140			
Surrogate: Fluoranthene-d10	0.0223		"	0.0333		67.0	40-140			

Matrix Spike Dup (BHK1363-MSD1)

Source: 2411371-02

Prepared: 11/27/24 Analyzed: 11/29/24

Acenaphthene	0.0167	0.00500	mg/kg	0.0333	ND	50.1	40-140	25.1	30	
Anthracene	0.0169	0.00500	"	0.0333	ND	50.7	40-140	24.8	30	
Benzo (a) anthracene	0.0179	0.00500	"	0.0333	ND	53.7	40-140	24.4	30	
Benzo (a) pyrene	0.0158	0.00500	"	0.0333	ND	47.4	40-140	25.2	30	
Benzo (b) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	40-140	30.0	30	
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333	ND	51.8	40-140	30.5	30	QR-02
Chrysene	0.0172	0.00500	"	0.0333	ND	51.7	40-140	25.4	30	
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	45.0	40-140	10.4	30	
Fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	40-140	26.1	30	
Fluorene	0.0171	0.00500	"	0.0333	ND	51.3	40-140	26.0	30	
Indeno (1,2,3-cd) pyrene	0.0135	0.00500	"	0.0333	ND	40.5	40-140	5.25	30	
Pyrene	0.0209	0.00500	"	0.0333	ND	62.8	40-140	27.6	30	
1-Methylnaphthalene	0.0179	0.00500	"	0.0333	ND	53.6	40-140	20.1	30	
2-Methylnaphthalene	0.0173	0.00500	"	0.0333	ND	51.9	40-140	19.6	30	
Surrogate: 2-Methylnaphthalene-d10	0.0186		"	0.0333		55.7	40-140			
Surrogate: Fluoranthene-d10	0.0170		"	0.0333		51.1	40-140			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHK1364 - EPA 5030 Soil MS

Blank (BHK1364-BLK1)

Prepared & Analyzed: 11/27/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0256</i>		"	<i>0.0333</i>		<i>76.8</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0271</i>		"	<i>0.0333</i>		<i>81.3</i>	<i>40-140</i>			

LCS (BHK1364-BS1)

Prepared & Analyzed: 11/27/24

Acenaphthene	0.0221	0.00500	mg/kg	0.0333		66.2	40-140			
Anthracene	0.0235	0.00500	"	0.0333		70.5	40-140			
Benzo (a) anthracene	0.0241	0.00500	"	0.0333		72.2	40-140			
Benzo (a) pyrene	0.0217	0.00500	"	0.0333		65.1	40-140			
Benzo (b) fluoranthene	0.0219	0.00500	"	0.0333		65.6	40-140			
Benzo (k) fluoranthene	0.0225	0.00500	"	0.0333		67.6	40-140			
Chrysene	0.0241	0.00500	"	0.0333		72.3	40-140			
Dibenz (a,h) anthracene	0.0200	0.00500	"	0.0333		60.0	40-140			
Fluoranthene	0.0242	0.00500	"	0.0333		72.5	40-140			
Fluorene	0.0227	0.00500	"	0.0333		68.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0182	0.00500	"	0.0333		54.7	40-140			
Pyrene	0.0258	0.00500	"	0.0333		77.4	40-140			
1-Methylnaphthalene	0.0189	0.00500	"	0.0333		56.6	40-140			
2-Methylnaphthalene	0.0201	0.00500	"	0.0333		60.4	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0215</i>		"	<i>0.0333</i>		<i>64.4</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0249</i>		"	<i>0.0333</i>		<i>74.6</i>	<i>40-140</i>			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHK1364 - EPA 5030 Soil MS

Matrix Spike (BHK1364-MS1)	Source: 2411365-01			Prepared & Analyzed: 11/27/24								
Acenaphthene	0.0166	0.00500	mg/kg	0.0333	ND	49.7	40-140					
Anthracene	0.0135	0.00500	"	0.0333	ND	40.5	40-140					
Benzo (a) anthracene	0.0519	0.00500	"	0.0333	0.0397	36.9	40-140					QM-05
Benzo (a) pyrene	0.0136	0.00500	"	0.0333	ND	40.8	40-140					
Benzo (b) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.5	40-140					
Benzo (k) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.5	40-140					
Chrysene	0.0334	0.00500	"	0.0333	0.0182	45.5	40-140					
Dibenz (a,h) anthracene	0.0177	0.00500	"	0.0333	0.00680	32.6	40-140					QM-05
Fluoranthene	0.0201	0.00500	"	0.0333	ND	60.4	40-140					
Fluorene	0.0180	0.00500	"	0.0333	ND	53.9	40-140					
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	40-140					
Pyrene	0.0298	0.00500	"	0.0333	0.0120	53.5	40-140					
1-Methylnaphthalene	0.0300	0.00500	"	0.0333	0.0143	47.0	40-140					
2-Methylnaphthalene	0.0336	0.00500	"	0.0333	0.0196	41.8	40-140					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0166</i>		<i>"</i>	<i>0.0333</i>		<i>49.8</i>	<i>40-140</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0167</i>		<i>"</i>	<i>0.0333</i>		<i>50.1</i>	<i>40-140</i>					

Matrix Spike Dup (BHK1364-MSD1)	Source: 2411365-01			Prepared & Analyzed: 11/27/24								
Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.8	40-140	27.7	30			
Anthracene	0.0188	0.00500	"	0.0333	ND	56.5	40-140	33.1	30			QM-05
Benzo (a) anthracene	0.0435	0.00500	"	0.0333	0.0397	11.5	40-140	17.7	30			QM-05
Benzo (a) pyrene	0.0185	0.00500	"	0.0333	ND	55.6	40-140	30.9	30			QM-05
Benzo (b) fluoranthene	0.0270	0.00500	"	0.0333	ND	81.0	40-140	24.2	30			
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.3	40-140	10.5	30			
Chrysene	0.0418	0.00500	"	0.0333	0.0182	70.8	40-140	22.4	30			
Dibenz (a,h) anthracene	0.0212	0.00500	"	0.0333	0.00680	43.2	40-140	18.1	30			
Fluoranthene	0.0255	0.00500	"	0.0333	ND	76.4	40-140	23.4	30			
Fluorene	0.0194	0.00500	"	0.0333	ND	58.2	40-140	7.68	30			
Indeno (1,2,3-cd) pyrene	0.0172	0.00500	"	0.0333	ND	51.7	40-140	23.2	30			
Pyrene	0.0359	0.00500	"	0.0333	0.0120	71.9	40-140	18.6	30			
1-Methylnaphthalene	0.0390	0.00500	"	0.0333	0.0143	74.0	40-140	26.1	30			
2-Methylnaphthalene	0.0447	0.00500	"	0.0333	0.0196	75.2	40-140	28.5	30			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0212</i>		<i>"</i>	<i>0.0333</i>		<i>63.6</i>	<i>40-140</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0213</i>		<i>"</i>	<i>0.0333</i>		<i>63.8</i>	<i>40-140</i>					

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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

Summit Scientific

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

Batch BHL0590 - EPA 3050B

Blank (BHL0590-BLK1)

Prepared & Analyzed: 12/13/24

Boron ND 2.00 mg/L

LCS (BHL0590-BS1)

Prepared & Analyzed: 12/13/24

Boron 4.76 2.00 mg/L 5.00 95.3 80-120

Duplicate (BHL0590-DUP1)

Source: 2411371-01

Prepared & Analyzed: 12/13/24

Boron 1.34 2.00 mg/L 1.37 2.24 20

Matrix Spike (BHL0590-MS1)

Source: 2411371-01

Prepared & Analyzed: 12/13/24

Boron 5.84 2.00 mg/L 5.00 1.37 89.5 75-125

Matrix Spike Dup (BHL0590-MSD1)

Source: 2411371-01

Prepared & Analyzed: 12/13/24

Boron 5.90 2.00 mg/L 5.00 1.37 90.6 75-125 0.952 25

Batch BHL0591 - EPA 3050B

Blank (BHL0591-BLK1)

Prepared: 12/13/24 Analyzed: 12/17/24

Boron ND 2.00 mg/L

LCS (BHL0591-BS1)

Prepared: 12/13/24 Analyzed: 12/17/24

Boron 5.80 2.00 mg/L 5.00 116 80-120

Duplicate (BHL0591-DUP1)

Source: 2411371-14

Prepared: 12/13/24 Analyzed: 12/17/24

Boron 0.204 2.00 mg/L 0.250 20.0 20

Matrix Spike (BHL0591-MS1)

Source: 2411371-14

Prepared: 12/13/24 Analyzed: 12/17/24

Boron 5.66 2.00 mg/L 5.00 0.250 108 75-125

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

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

Summit Scientific

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

Batch BHL0591 - EPA 3050B

Matrix Spike Dup (BHL0591-MSD1)

Source: 2411371-14

Prepared: 12/13/24 Analyzed: 12/17/24

Boron	6.07	2.00	mg/L	5.00	0.250	116	75-125	7.08	25	
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHL0393 - EPA 3050B

Blank (BHL0393-BLK1)

Prepared: 12/10/24 Analyzed: 12/14/24

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	ND	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						
Selenium	ND	0.260	"						

LCS (BHL0393-BS1)

Prepared: 12/10/24 Analyzed: 12/14/24

Arsenic	36.9	0.200	mg/kg wet	40.3	91.4	80-120
Barium	36.6	0.400	"	40.3	90.7	80-120
Cadmium	1.85	0.200	"	2.02	91.8	80-120
Copper	41.1	0.400	"	40.3	102	80-120
Lead	18.4	0.200	"	20.2	91.0	80-120
Nickel	37.7	0.400	"	40.3	93.5	80-120
Silver	1.88	0.0200	"	2.02	93.2	80-120
Zinc	38.8	0.400	"	40.3	96.1	80-120
Selenium	4.17	0.260	"	4.03	103	80-120

Duplicate (BHL0393-DUP1)

Source: 2411371-01

Prepared: 12/10/24 Analyzed: 12/14/24

Arsenic	1.55	0.200	mg/kg dry	1.50	3.78	20
Barium	52.2	0.400	"	51.7	0.972	20
Cadmium	0.164	0.200	"	0.156	5.07	20
Copper	3.64	0.400	"	3.52	3.56	20
Lead	4.96	0.200	"	4.85	2.19	20
Nickel	3.24	0.400	"	3.15	2.98	20
Silver	0.0268	0.0200	"	0.0252	6.04	20
Zinc	16.8	0.400	"	16.1	4.20	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHL0393 - EPA 3050B

Matrix Spike (BHL0393-MS1)

Source: 2411371-01

Prepared: 12/10/24 Analyzed: 12/14/24

Arsenic	48.0	0.200	mg/kg dry	46.6	1.50	99.8	75-125			
Barium	102	0.400	"	46.6	51.7	107	75-125			
Cadmium	2.38	0.200	"	2.33	0.156	95.4	75-125			
Copper	42.9	0.400	"	46.6	3.52	84.5	75-125			
Lead	27.7	0.200	"	23.3	4.85	98.3	75-125			
Nickel	39.6	0.400	"	46.6	3.15	78.2	75-125			
Silver	2.23	0.0200	"	2.33	0.0252	94.6	75-125			
Zinc	54.9	0.400	"	46.6	16.1	83.5	75-125			
Selenium	4.86	0.260	"	4.66	ND	104	75-125			

Matrix Spike Dup (BHL0393-MSD1)

Source: 2411371-01

Prepared: 12/10/24 Analyzed: 12/14/24

Arsenic	44.1	0.200	mg/kg dry	45.8	1.50	92.9	75-125	8.51	25	
Barium	92.3	0.400	"	45.8	51.7	88.7	75-125	9.52	25	
Cadmium	2.26	0.200	"	2.29	0.156	91.9	75-125	5.02	25	
Copper	39.8	0.400	"	45.8	3.52	79.3	75-125	7.30	25	
Lead	26.4	0.200	"	22.9	4.85	93.9	75-125	5.09	25	
Nickel	36.7	0.400	"	45.8	3.15	73.2	75-125	7.61	25	QM-05
Silver	2.10	0.0200	"	2.29	0.0252	90.7	75-125	5.73	25	
Zinc	51.6	0.400	"	45.8	16.1	77.5	75-125	6.35	25	
Selenium	4.57	0.260	"	4.58	ND	99.7	75-125	6.13	25	

Batch BHL0394 - EPA 3050B

Blank (BHL0394-BLK1)

Prepared: 12/10/24 Analyzed: 12/14/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHL0394 - EPA 3050B

LCS (BHL0394-BS1)

Prepared: 12/10/24 Analyzed: 12/14/24

Arsenic	38.0	0.200	mg/kg wet	40.3		94.3	80-120			
Barium	37.9	0.400	"	40.3		94.0	80-120			
Cadmium	1.97	0.200	"	2.02		97.9	80-120			
Copper	44.1	0.400	"	40.3		109	80-120			
Lead	19.3	0.200	"	20.2		95.7	80-120			
Nickel	40.2	0.400	"	40.3		99.8	80-120			
Silver	1.98	0.0200	"	2.02		98.0	80-120			
Zinc	41.4	0.400	"	40.3		103	80-120			
Selenium	4.75	0.260	"	4.03		118	80-120			

Duplicate (BHL0394-DUP1)

Source: 2411371-20

Prepared: 12/10/24 Analyzed: 12/14/24

Arsenic	0.775	0.200	mg/kg dry		0.729			6.12	20	
Barium	23.3	0.400	"		22.4			3.69	20	
Cadmium	0.0574	0.200	"		0.0542			5.62	20	
Copper	1.77	0.400	"		1.73			2.23	20	
Lead	2.07	0.200	"		2.19			5.79	20	
Nickel	1.66	0.400	"		1.71			3.36	20	
Silver	0.0114	0.0200	"		0.0146			24.7	20	QR-01
Zinc	9.64	0.400	"		8.44			13.3	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BHL0394-MS1)

Source: 2411371-20

Prepared: 12/10/24 Analyzed: 12/14/24

Arsenic	44.3	0.200	mg/kg dry	46.7	0.729	93.5	75-125			
Barium	65.8	0.400	"	46.7	22.4	93.0	75-125			
Cadmium	2.33	0.200	"	2.33	0.0542	97.5	75-125			
Copper	45.3	0.400	"	46.7	1.73	93.3	75-125			
Lead	25.2	0.200	"	23.3	2.19	98.7	75-125			
Nickel	41.8	0.400	"	46.7	1.71	85.8	75-125			
Silver	2.23	0.0200	"	2.33	0.0146	94.9	75-125			
Zinc	51.1	0.400	"	46.7	8.44	91.4	75-125			
Selenium	4.99	0.260	"	4.67	ND	107	75-125			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

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 BHL0394 - EPA 3050B

Matrix Spike Dup (BHL0394-MSD1)	Source: 2411371-20			Prepared: 12/10/24 Analyzed: 12/14/24							
Arsenic	44.5	0.200	mg/kg dry	47.0	0.729	93.1	75-125	0.360	25		
Barium	66.3	0.400	"	47.0	22.4	93.3	75-125	0.748	25		
Cadmium	2.32	0.200	"	2.35	0.0542	96.3	75-125	0.433	25		
Copper	45.2	0.400	"	47.0	1.73	92.4	75-125	0.178	25		
Lead	25.4	0.200	"	23.5	2.19	98.6	75-125	0.643	25		
Nickel	41.6	0.400	"	47.0	1.71	84.8	75-125	0.415	25		
Silver	2.21	0.0200	"	2.35	0.0146	93.2	75-125	0.978	25		
Zinc	50.8	0.400	"	47.0	8.44	90.1	75-125	0.537	25		
Selenium	5.02	0.260	"	4.70	ND	107	75-125	0.572	25		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

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 BHL0608 - 3060A Mod

Blank (BHL0608-BLK1)

Prepared & Analyzed: 12/13/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHL0608-BS1)

Prepared & Analyzed: 12/13/24

Chromium, Hexavalent 24.6 0.30 mg/kg wet 25.0 98.4 80-120

Duplicate (BHL0608-DUP1)

Source: 2411371-01

Prepared & Analyzed: 12/13/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHL0608-MS1)

Source: 2411371-01

Prepared & Analyzed: 12/13/24

Chromium, Hexavalent 28.1 0.30 mg/kg dry 28.2 ND 99.6 75-125

Matrix Spike Dup (BHL0608-MSD1)

Source: 2411371-01

Prepared & Analyzed: 12/13/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 28.2 ND 98.6 75-125 1.01 20

Batch BHL0609 - 3060A Mod

Blank (BHL0609-BLK1)

Prepared & Analyzed: 12/13/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHL0609-BS1)

Prepared & Analyzed: 12/13/24

Chromium, Hexavalent 26.4 0.30 mg/kg wet 25.0 106 80-120

Duplicate (BHL0609-DUP1)

Source: 2411371-21

Prepared & Analyzed: 12/13/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHL0609-MS1)

Source: 2411371-21

Prepared & Analyzed: 12/13/24

Chromium, Hexavalent 17.3 0.30 mg/kg dry 29.2 ND 59.2 75-125

QM-05

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

Hexavalent Chromium by EPA Method 7196 - Quality Control

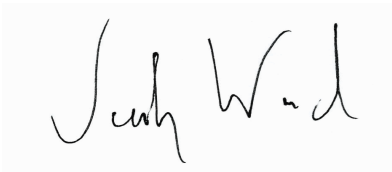
Summit Scientific

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

Batch BHL0609 - 3060A Mod

Matrix Spike Dup (BHL0609-MSD1)	Source: 2411371-21			Prepared & Analyzed: 12/13/24					QM-05
Chromium, Hexavalent	14.4	0.30	mg/kg dry	29.2	ND	49.2	75-125	18.5	20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

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			Limit	RPD	Limit	RPD	

Batch BHL0846 - General Preparation

Blank (BHL0846-BLK1)

Prepared: 12/18/24 Analyzed: 12/24/24

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

LCS (BHL0846-BS1)

Prepared: 12/18/24 Analyzed: 12/24/24

Calcium	4.54	0.0500	mg/L wet	5.00	90.9	70-130				
Magnesium	5.36	0.0500	"	5.00	107	70-130				
Sodium	5.29	0.0500	"	5.00	106	70-130				

Batch BHL0847 - General Preparation

Blank (BHL0847-BLK1)

Prepared: 12/18/24 Analyzed: 12/24/24

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

LCS (BHL0847-BS1)

Prepared: 12/18/24 Analyzed: 12/24/24

Calcium	4.71	0.0500	mg/L wet	5.00	94.1	70-130				
Magnesium	5.05	0.0500	"	5.00	101	70-130				
Sodium	4.78	0.0500	"	5.00	95.5	70-130				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

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

Summit Scientific

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


Batch BHL0356 - General Preparation

Duplicate (BHL0356-DUP1)		Source: 2411371-01			Prepared & Analyzed: 12/09/24				
% Solids	87.3		%		88.8		1.63	20	

Batch BHL0363 - General Preparation

Duplicate (BHL0363-DUP1)		Source: 2411371-13			Prepared: 12/09/24 Analyzed: 12/11/24				
% Solids	84.3		%		83.3		1.18	20	

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

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

Summit Scientific

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

Batch BHL0860 - General Preparation

Blank (BHL0860-BLK1)

Prepared: 12/18/24 Analyzed: 12/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHL0860-BS1)

Prepared: 12/18/24 Analyzed: 12/23/24

Specific Conductance (EC) 1.40 0.0100 mmhos/cm 95-105

Duplicate (BHL0860-DUP1)

Source: 2411370-01

Prepared: 12/18/24 Analyzed: 12/23/24

Specific Conductance (EC) 0.368 0.0100 mmhos/cm 0.369 0.268 20

Batch BHL0861 - General Preparation

Blank (BHL0861-BLK1)

Prepared: 12/18/24 Analyzed: 12/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHL0861-BS1)

Prepared: 12/18/24 Analyzed: 12/23/24

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

Duplicate (BHL0861-DUP1)

Source: 2411371-12

Prepared: 12/18/24 Analyzed: 12/23/24

Specific Conductance (EC) 0.453 0.0100 mmhos/cm 0.452 0.218 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Project Number: C024-021
 Project Manager: Paul Henchan

Reported:
 12/30/24 10:00

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 BHL0853 - General Preparation

LCS (BHL0853-BS1)

Prepared: 12/18/24 Analyzed: 12/23/24

pH 9.20 pH Units 9.18 100 95-105

Duplicate (BHL0853-DUP1)

Source: 2411371-12

Prepared: 12/18/24 Analyzed: 12/23/24

pH 8.26 pH Units 8.30 0.389 20

Batch BHL0855 - General Preparation

LCS (BHL0855-BS1)

Prepared: 12/18/24 Analyzed: 12/23/24

pH 9.19 pH Units 9.18 100 95-105

Duplicate (BHL0855-DUP1)

Source: 2411370-01

Prepared: 12/18/24 Analyzed: 12/23/24

pH 8.36 pH Units 8.46 1.12 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Project Number: C024-021
Project Manager: Paul Henchan

Reported:
12/30/24 10:00

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- R-05 The reporting limit for this sample has been raised due to the presence of high levels of non-target analytes.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-02 The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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