

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 22, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Gollner T4N-R67W-S27 L02

Work Order #2407143

Enclosed are the results of analyses for samples received by Summit Scientific on 07/11/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-0.5FT	2407143-01	Soil	07/10/24 14:55	07/11/24 16:30
PWV E-4FT	2407143-02	Soil	07/10/24 15:00	07/11/24 16:30
PWV B-5FT	2407143-03	Soil	07/10/24 15:05	07/11/24 16:30
SEP DL-3FT	2407143-04	Soil	07/10/24 15:10	07/11/24 16:30

Summit Scientific

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

Lab ID 2407143 Page 1 of 1

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:		Project Name: <u>Gallner TW-R67W-S27102</u>		AFE#:	
Phone: 303-261-6246		Project Number:		PO/Billing Codes: <u>UWRWE-A3585-ABN</u>	
Sampler Name: Stanley Gilbert				Contact: <u>Mike Montoya</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	HOLD
1	AST-0.5FT	7/10/24	14:55	2			X			X				X	X	X	X	X		
2	PWV E-4FT	I	15:00	I			I			I				I	I	I	I	I		
3	PWV B-5FT	I	15:05	I			I			I				I	I	I	I	I		
4	SEP DL-3FT	I	15:10	I			I			I				I	I	I	I	I		
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>7/10/24 17:20</u>	Received by: <u>Summit North</u>	Date/Time: <u>7/10/24 17:20</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>52</u>	Date/Time: <u>7/12/24 16:50</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/12/24 16:50</u>	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>7.9</u>	Corrected Temperature: <u>8</u>	IR gun #:	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2407143

Client: Fremont

Client Project ID: Gollner T4N-ROTW-S27 102

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

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

Temp (°C) 7.9

Thermometer # 1

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

AS
Custodian Printed Name

7/11/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

AST-0.5FT
2407143-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHG0341	07/12/24	07/13/24	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: **07/10/24 14:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0383	95.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0425	106 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHG0344	07/12/24	07/13/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.47	75.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHG0331	07/12/24	07/13/24	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: **07/10/24 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0215	64.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHG0340	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:55**

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

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07/22/24 07:21

AST-0.5FT
2407143-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.02	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	187	0.400	"	"	"	"	"	"	
Cadmium	0.425	0.200	"	"	"	"	"	"	
Copper	7.12	0.400	"	"	"	"	"	"	
Lead	14.2	0.200	"	"	"	"	"	"	
Nickel	7.29	0.400	"	"	"	"	"	"	
Silver	0.0631	0.0200	"	"	"	"	"	"	
Zinc	25.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0379	07/15/24	07/15/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.0	0.0500	mg/L dry	1	BHG0339	07/12/24	07/16/24	EPA 6020B	
Magnesium	7.22	0.0500	"	"	"	"	"	"	
Sodium	0.859	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0328	0.00100	units	1	BHG0421	07/16/24	07/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
 07/22/24 07:21

AST-0.5FT
2407143-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.6	%	1	BHG0337	07/12/24	07/12/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0804	0.0100	mmhos/cm	1	BHG0357	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BHG0358	07/12/24	07/15/24	EPA 9045D	

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07/22/24 07:21

PWV E-4FT
2407143-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHG0341	07/12/24	07/13/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.060	0.0050	"	"	"	"	"	"	
Xylenes (total)	5.2	0.10	"	10	"	"	07/13/24	"	
1,2,4-Trimethylbenzene	6.7	0.050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	4.3	0.050	"	"	"	"	"	"	
Naphthalene	0.16	0.0038	"	1	"	"	07/13/24	"	
Gasoline Range Hydrocarbons	290	5.0	"	10	"	"	07/13/24	"	

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0345	86.3 %	50-150	"	"	"	07/13/24	"	
Surrogate: Toluene-d8	0.118	295 %	50-150	"	"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.183	457 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1900	50	mg/kg	1	BHG0344	07/12/24	07/13/24	EPA 8015M	
C28-C36 (ORO)	240	50	"	"	"	"	"	"	

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.34	58.7 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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PWV E-4FT
2407143-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0565	0.00500	mg/kg	1	BHG0331	07/12/24	07/13/24	EPA 8270D SIM	O-02
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00630	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0383	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0157	0.00500	"	"	"	"	"	"	
Fluorene	0.110	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0452	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.691	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	1.97	0.00500	"	"	"	"	"	"	

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00696	20.9 %	40-150		"	"	"	"	S-04
Surrogate: Fluoranthene-d10	0.0145	43.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHG0340	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

PWV E-4FT
2407143-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.17	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B
Barium	155	0.400	"	"	"	"	"	"
Cadmium	0.278	0.200	"	"	"	"	"	"
Copper	6.59	0.400	"	"	"	"	"	"
Lead	12.1	0.200	"	"	"	"	"	"
Nickel	6.81	0.400	"	"	"	"	"	"
Silver	0.0568	0.0200	"	"	"	"	"	"
Zinc	108	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0379	07/15/24	07/15/24	EPA 7196A	

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

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	69.8	0.0500	mg/L dry	1	BHG0339	07/12/24	07/16/24	EPA 6020B	
Magnesium	8.23	0.0500	"	"	"	"	"	"	
Sodium	31.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.944	0.00100	units	1	BHG0421	07/16/24	07/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PWV E-4FT
2407143-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.5	%	1	BHG0337	07/12/24	07/12/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.147	0.0100	mmhos/cm	1	BHG0357	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.01		pH Units	1	BHG0358	07/12/24	07/15/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

PWV B-5FT
2407143-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHG0341	07/12/24	07/16/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.014	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.0089	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0487	122 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0439	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	95	50	mg/kg	1	BHG0344	07/12/24	07/13/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.24	73.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A3585-ABN
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Reported:
07/22/24 07:21

PWV B-5FT
2407143-03 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHG0331	07/12/24	07/13/24	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	0.00555	0.00500	"	"	"	"	"	"	

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0228	68.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0141	42.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHG0340	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

PWV B-5FT
2407143-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	6.21	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B
Barium	186	0.400	"	"	"	"	"	"
Cadmium	0.274	0.200	"	"	"	"	"	"
Copper	5.92	0.400	"	"	"	"	"	"
Lead	9.99	0.200	"	"	"	"	"	"
Nickel	6.23	0.400	"	"	"	"	"	"
Silver	0.0492	0.0200	"	"	"	"	"	"
Zinc	268	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0379	07/15/24	07/15/24	EPA 7196A	

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

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.8	0.0500	mg/L dry	1	BHG0339	07/12/24	07/16/24	EPA 6020B	
Magnesium	3.34	0.0500	"	"	"	"	"	"	
Sodium	77.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.76	0.00100	units	1	BHG0421	07/16/24	07/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A3585-ABN
 Project Manager: Paul Henchan

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PWV B-5FT
2407143-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.5	%	1	BHG0337	07/12/24	07/12/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.579	0.0100	mmhos/cm	1	BHG0357	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BHG0358	07/12/24	07/15/24	EPA 9045D	

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Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

SEP DL-3FT
2407143-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHG0341	07/12/24	07/13/24	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: **07/10/24 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0446	112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0433	108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHG0344	07/12/24	07/13/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.60	68.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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SEP DL-3FT
2407143-04 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHG0331	07/12/24	07/13/24	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	0.00747	0.00500	"	"	"	"	"	"	

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0224	67.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHG0340	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
07/22/24 07:21

SEP DL-3FT
2407143-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.62	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B
Barium	126	0.400	"	"	"	"	"	"
Cadmium	0.237	0.200	"	"	"	"	"	"
Copper	6.46	0.400	"	"	"	"	"	"
Lead	9.72	0.200	"	"	"	"	"	"
Nickel	6.99	0.400	"	"	"	"	"	"
Silver	0.0743	0.0200	"	"	"	"	"	"
Zinc	23.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0379	07/15/24	07/15/24	EPA 7196A	

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

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.1	0.0500	mg/L dry	1	BHG0339	07/12/24	07/16/24	EPA 6020B	
Magnesium	6.40	0.0500	"	"	"	"	"	"	
Sodium	24.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.24	0.00100	units	1	BHG0421	07/16/24	07/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
 07/22/24 07:21

SEP DL-3FT
2407143-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.9	%	1	BHG0337	07/12/24	07/12/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.350	0.0100	mmhos/cm	1	BHG0357	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BHG0358	07/12/24	07/15/24	EPA 9045D	

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Project Number: UWRWE-A3585-ABN
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Reported:
07/22/24 07:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHG0341 - EPA 5030 Soil MS

Blank (BHG0341-BLK1)

Prepared & Analyzed: 07/12/24

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	0.0447		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

LCS (BHG0341-BS1)

Prepared & Analyzed: 07/12/24

Benzene	0.101	0.0020	mg/kg	0.100		101	70-130			
Toluene	0.117	0.0050	"	0.100		117	70-130			
Ethylbenzene	0.114	0.0050	"	0.100		114	70-130			
m,p-Xylene	0.226	0.010	"	0.200		113	70-130			
o-Xylene	0.110	0.0050	"	0.100		110	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
Naphthalene	0.0960	0.0038	"	0.100		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

Matrix Spike (BHG0341-MS1)

Source: 2407123-01

Prepared & Analyzed: 07/12/24

Benzene	0.0930	0.0020	mg/kg	0.100	ND	93.0	70-130			
Toluene	0.106	0.0050	"	0.100	ND	106	70-130			
Ethylbenzene	0.0985	0.0050	"	0.100	ND	98.5	70-130			
m,p-Xylene	0.193	0.010	"	0.200	ND	96.3	70-130			
o-Xylene	0.0977	0.0050	"	0.100	ND	97.7	70-130			
1,2,4-Trimethylbenzene	0.0891	0.0050	"	0.100	ND	89.1	70-130			
1,3,5-Trimethylbenzene	0.0890	0.0050	"	0.100	ND	89.0	70-130			
Naphthalene	0.0870	0.0038	"	0.100	ND	87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0466		"	0.0400		116	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

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Project Number: UWRWE-A3585-ABN
 Project Manager: Paul Henchan

Reported:
 07/22/24 07:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHG0341 - EPA 5030 Soil MS

Matrix Spike Dup (BHG0341-MSD1)	Source: 2407123-01			Prepared & Analyzed: 07/12/24						
Benzene	0.0895	0.0020	mg/kg	0.100	ND	89.5	70-130	3.91	30	
Toluene	0.119	0.0050	"	0.100	ND	119	70-130	11.3	30	
Ethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	13.7	30	
m,p-Xylene	0.221	0.010	"	0.200	ND	110	70-130	13.5	30	
o-Xylene	0.107	0.0050	"	0.100	ND	107	70-130	8.81	30	
1,2,4-Trimethylbenzene	0.0987	0.0050	"	0.100	ND	98.7	70-130	10.3	30	
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130	12.0	30	
Naphthalene	0.0878	0.0038	"	0.100	ND	87.8	70-130	0.927	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0354</i>		<i>"</i>	<i>0.0400</i>		<i>88.5</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.1</i>	<i>50-150</i>			

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Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
 Project Manager: Paul Henchan

Reported:
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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHG0344 - EPA 3550A

Blank (BHG0344-BLK1)

Prepared: 07/12/24 Analyzed: 07/13/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		93.0		30-150			

LCS (BHG0344-BS1)

Prepared: 07/12/24 Analyzed: 07/13/24

C10-C28 (DRO)	558	50	mg/kg	500		112		70-130			
Surrogate: <i>o</i> -Terphenyl	13.7		"	12.5		110		30-150			

Matrix Spike (BHG0344-MS1)

Source: 2407123-01

Prepared: 07/12/24 Analyzed: 07/13/24

C10-C28 (DRO)	500	50	mg/kg	500	ND	100		70-130			
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		92.7		30-150			

Matrix Spike Dup (BHG0344-MSD1)

Source: 2407123-01

Prepared: 07/12/24 Analyzed: 07/13/24

C10-C28 (DRO)	423	50	mg/kg	500	ND	84.6		70-130	16.8	20	
Surrogate: <i>o</i> -Terphenyl	9.91		"	12.5		79.3		30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHG0331 - EPA 5030 Soil MS

Blank (BHG0331-BLK1)

Prepared & Analyzed: 07/12/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0302		"	0.0333		90.5	40-150			
Surrogate: Fluoranthene-d10	0.0276		"	0.0333		82.8	40-150			

LCS (BHG0331-BS1)

Prepared & Analyzed: 07/12/24

Acenaphthene	0.0263	0.00500	mg/kg	0.0333		78.8	31-137			
Anthracene	0.0254	0.00500	"	0.0333		76.3	30-120			
Benzo (a) anthracene	0.0267	0.00500	"	0.0333		80.2	30-120			
Benzo (a) pyrene	0.0237	0.00500	"	0.0333		71.1	30-120			
Benzo (b) fluoranthene	0.0238	0.00500	"	0.0333		71.5	30-120			
Benzo (k) fluoranthene	0.0247	0.00500	"	0.0333		74.2	30-120			
Chrysene	0.0267	0.00500	"	0.0333		80.1	30-120			
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333		66.1	30-120			
Fluoranthene	0.0253	0.00500	"	0.0333		75.9	30-120			
Fluorene	0.0263	0.00500	"	0.0333		79.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0217	0.00500	"	0.0333		65.2	30-120			
Pyrene	0.0329	0.00500	"	0.0333		98.8	35-142			
1-Methylnaphthalene	0.0295	0.00500	"	0.0333		88.5	35-142			
2-Methylnaphthalene	0.0281	0.00500	"	0.0333		84.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0293		"	0.0333		87.8	40-150			
Surrogate: Fluoranthene-d10	0.0262		"	0.0333		78.6	40-150			

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Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

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 BHG0331 - EPA 5030 Soil MS

Matrix Spike (BHG0331-MS1)	Source: 2407125-01			Prepared & Analyzed: 07/12/24							
Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	54.8	31-137				
Anthracene	0.0191	0.00500	"	0.0333	ND	57.4	30-120				
Benzo (a) anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120				
Benzo (a) pyrene	0.0170	0.00500	"	0.0333	ND	50.9	30-120				
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	30-120				
Benzo (k) fluoranthene	0.0169	0.00500	"	0.0333	ND	50.6	30-120				
Chrysene	0.0187	0.00500	"	0.0333	ND	56.1	30-120				
Dibenz (a,h) anthracene	0.0144	0.00500	"	0.0333	ND	43.3	30-120				
Fluoranthene	0.0169	0.00500	"	0.0333	ND	50.6	30-120				
Fluorene	0.0187	0.00500	"	0.0333	ND	56.1	30-120				
Indeno (1,2,3-cd) pyrene	0.0154	0.00500	"	0.0333	ND	46.1	30-120				
Pyrene	0.0210	0.00500	"	0.0333	ND	63.0	35-142				
1-Methylnaphthalene	0.0201	0.00500	"	0.0333	ND	60.2	15-130				
2-Methylnaphthalene	0.0196	0.00500	"	0.0333	ND	58.8	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0198</i>		<i>"</i>	<i>0.0333</i>		<i>59.4</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0174</i>		<i>"</i>	<i>0.0333</i>		<i>52.2</i>	<i>40-150</i>				

Matrix Spike Dup (BHG0331-MSD1)	Source: 2407125-01			Prepared & Analyzed: 07/12/24							
Acenaphthene	0.0195	0.00500	mg/kg	0.0333	ND	58.5	31-137	6.44	30		
Anthracene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	3.18	30		
Benzo (a) anthracene	0.0194	0.00500	"	0.0333	ND	58.1	30-120	1.37	30		
Benzo (a) pyrene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	0.476	30		
Benzo (b) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	0.714	30		
Benzo (k) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	0.443	30		
Chrysene	0.0188	0.00500	"	0.0333	ND	56.3	30-120	0.333	30		
Dibenz (a,h) anthracene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	17.1	30		
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	13.3	30		
Fluorene	0.0195	0.00500	"	0.0333	ND	58.6	30-120	4.35	30		
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333	ND	48.1	30-120	4.29	30		
Pyrene	0.0216	0.00500	"	0.0333	ND	64.8	35-142	2.90	30		
1-Methylnaphthalene	0.0236	0.00500	"	0.0333	ND	70.7	15-130	16.1	50		
2-Methylnaphthalene	0.0213	0.00500	"	0.0333	ND	63.8	15-130	8.26	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0222</i>		<i>"</i>	<i>0.0333</i>		<i>66.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0201</i>		<i>"</i>	<i>0.0333</i>		<i>60.4</i>	<i>40-150</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
 Project Manager: Paul Henchan

Reported:
 07/22/24 07:21

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

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

Batch BHG0340 - EPA 3050B

Blank (BHG0340-BLK1)

Prepared: 07/12/24 Analyzed: 07/13/24

Boron ND 2.00 mg/L

LCS (BHG0340-BS1)

Prepared: 07/12/24 Analyzed: 07/13/24

Boron 4.98 2.00 mg/L 5.00 99.6 80-120

Duplicate (BHG0340-DUP1)

Source: 2407137-01

Prepared: 07/12/24 Analyzed: 07/13/24

Boron 0.0521 2.00 mg/L 0.106 67.8 20 QR-01

Matrix Spike (BHG0340-MS1)

Source: 2407137-01

Prepared: 07/12/24 Analyzed: 07/13/24

Boron 5.08 2.00 mg/L 5.02 0.106 99.0 75-125

Matrix Spike Dup (BHG0340-MSD1)

Source: 2407137-01

Prepared: 07/12/24 Analyzed: 07/13/24

Boron 5.34 2.00 mg/L 5.02 0.106 104 75-125 4.96 25

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Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHG0346 - EPA 3050B

Blank (BHG0346-BLK1)

Prepared: 07/12/24 Analyzed: 07/17/24

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 (BHG0346-BS1)

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	38.6	0.200	mg/kg wet	40.0	96.4	80-120
Barium	39.0	0.400	"	40.0	97.5	80-120
Cadmium	1.93	0.200	"	2.00	96.4	80-120
Copper	40.3	0.400	"	40.0	101	80-120
Lead	19.1	0.200	"	20.0	95.4	80-120
Nickel	40.4	0.400	"	40.0	101	80-120
Silver	1.92	0.0200	"	2.00	96.0	80-120
Zinc	39.5	0.400	"	40.0	98.7	80-120
Selenium	3.71	0.260	"	4.00	92.7	80-120

Duplicate (BHG0346-DUP1)

Source: 2407142-02

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	5.83	0.200	mg/kg dry	5.41	7.40	20	
Barium	226	0.400	"	140	47.2	20	QR-03
Cadmium	0.322	0.200	"	0.288	11.1	20	
Copper	6.78	0.400	"	6.82	0.662	20	
Lead	11.0	0.200	"	11.0	0.160	20	
Nickel	7.85	0.400	"	7.57	3.63	20	
Silver	0.0555	0.0200	"	0.0475	15.5	20	
Zinc	25.5	0.400	"	24.9	2.68	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

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 BHG0346 - EPA 3050B

Matrix Spike (BHG0346-MS1)

Source: 2407142-02

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	55.7	0.200	mg/kg dry	53.3	5.41	94.3	75-125			
Barium	266	0.400	"	53.3	140	237	75-125			QM-07
Cadmium	2.87	0.200	"	2.67	0.288	97.0	75-125			
Copper	32.0	0.400	"	53.3	6.82	47.2	75-125			QM-05
Lead	35.8	0.200	"	26.7	11.0	92.8	75-125			
Nickel	33.1	0.400	"	53.3	7.57	47.8	75-125			QM-05
Silver	2.54	0.0200	"	2.67	0.0475	93.4	75-125			
Zinc	51.5	0.400	"	53.3	24.9	49.9	75-125			QM-05
Selenium	3.78	0.260	"	5.33	ND	70.8	75-125			QM-07

Matrix Spike Dup (BHG0346-MSD1)

Source: 2407142-02

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	53.5	0.200	mg/kg dry	50.9	5.41	94.5	75-125	4.00	25	
Barium	213	0.400	"	50.9	140	145	75-125	21.8	25	QM-07
Cadmium	2.69	0.200	"	2.54	0.288	94.3	75-125	6.69	25	
Copper	30.4	0.400	"	50.9	6.82	46.3	75-125	5.14	25	QM-05
Lead	34.5	0.200	"	25.4	11.0	92.5	75-125	3.44	25	
Nickel	31.6	0.400	"	50.9	7.57	47.2	75-125	4.63	25	QM-05
Silver	2.39	0.0200	"	2.54	0.0475	92.3	75-125	5.85	25	
Zinc	49.7	0.400	"	50.9	24.9	48.9	75-125	3.47	25	QM-05
Selenium	3.44	0.260	"	5.09	ND	67.5	75-125	9.41	25	QM-07

Post Spike (BHG0346-PS1)

Source: 2407142-02

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	113		ug/l	100	10.1	103	75-125			
Barium	381		"	100	262	119	75-125			
Cadmium	5.62		"	5.00	0.540	102	75-125			
Copper	61.8		"	100	12.8	49.0	75-125			QM-01
Lead	71.0		"	50.0	20.6	101	75-125			
Nickel	63.9		"	100	14.2	49.7	75-125			QM-01
Silver	5.11		"	5.00	0.0890	100	75-125			
Zinc	99.4		"	100	46.6	52.8	75-125			QM-01
Selenium	8.46		"	10.0	0.205	82.5	75-125			

Summit Scientific

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Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
 Project Manager: Paul Henchan

Reported:
 07/22/24 07:21

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHG0379 - 3060A Mod

Blank (BHG0379-BLK1)

Prepared & Analyzed: 07/15/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHG0379-BS1)

Prepared & Analyzed: 07/15/24

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHG0379-DUP1)

Source: 2407143-01

Prepared & Analyzed: 07/15/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHG0379-MS1)

Source: 2407143-01

Prepared & Analyzed: 07/15/24

Chromium, Hexavalent 28.3 0.30 mg/kg dry 29.2 ND 96.8 75-125

Matrix Spike Dup (BHG0379-MSD1)

Source: 2407143-01

Prepared & Analyzed: 07/15/24

Chromium, Hexavalent 28.7 0.30 mg/kg dry 29.2 ND 98.2 75-125 1.44 20

Summit Scientific

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
 Project Manager: Paul Henchan

Reported:
 07/22/24 07:21

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

Summit Scientific

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

Batch BHG0339 - General Preparation

Blank (BHG0339-BLK1)

Prepared: 07/12/24 Analyzed: 07/16/24

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

LCS (BHG0339-BS1)

Prepared: 07/12/24 Analyzed: 07/16/24

Calcium	5.07	0.0500	mg/L wet	5.00	101	70-130				
Magnesium	5.47	0.0500	"	5.00	109	70-130				
Sodium	5.61	0.0500	"	5.00	112	70-130				

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 Wellington CO, 80549

Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
 Project Manager: Paul Henchan

Reported:
 07/22/24 07:21

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

Summit Scientific

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

Batch BHG0337 - General Preparation

Duplicate (BHG0337-DUP1)

Source: 2406108-04

Prepared & Analyzed: 07/12/24

% Solids	84.3		%		85.1			0.905	20	
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Fremont Environmental
 PO Box 1289
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Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
 Project Manager: Paul Henchan

Reported:
 07/22/24 07:21

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

Summit Scientific

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

Batch BHG0357 - General Preparation

Blank (BHG0357-BLK1)

Prepared: 07/12/24 Analyzed: 07/15/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHG0357-BS1)

Prepared: 07/12/24 Analyzed: 07/15/24

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BHG0357-DUP1)

Source: 2407142-01

Prepared: 07/12/24 Analyzed: 07/15/24

Specific Conductance (EC) 0.202 0.0100 mmhos/cm 0.204 1.28 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
 Project Manager: Paul Henchan

Reported:
 07/22/24 07:21

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 BHG0358 - General Preparation

LCS (BHG0358-BS1)

Prepared: 07/12/24 Analyzed: 07/15/24

pH	9.13	pH Units	9.18	99.5	95-105
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Duplicate (BHG0358-DUP1)

Source: 2407142-01

Prepared: 07/12/24 Analyzed: 07/15/24

pH	8.51	pH Units	8.62	1.28	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner T4N-R67W-S27 L02

Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/22/24 07:21

Notes and Definitions

- S-04 A sample matrix effect prevented complete surrogate recovery.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- O-02 Due to matrix interference, the sample cannot be accurately quantitated. The reported result is qualitative.
- 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