

# **FREMONT ENVIRONMENTAL INC.**

April 28, 2024

Mr. Daniel Peterson  
Noble Energy Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, CO 80634

Subject:           **Flowline Closure Data Submittal**  
Gibson 11-9  
API # 05-123-23102  
NWNW Sec. 9, T6N, R63W  
Weld County, Colorado  
Fremont Project No. C024-083  
Facility ID #278872, Remediation #31628

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Flowline Closure activities for the Noble Energy Inc. (Noble) Gibson 11-9. Impacted soil was not encountered during abandonment activities. Details of the Gibson 11-9 flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

**FREMONT ENVIRONMENTAL INC.**



Paul V. Henehan, P.E.  
Senior Consultant

Attachments:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Reports

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE 100322**  
**GIBSON 11-9, WELD COUNTY, COLORADO**  
**REM # 31628**

Sample ID	Sample Date	Depth	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
FL01@5.0'	4/11/2024	5.0 Ft	40.5061521	-104.4481758	0.80	0.7 ppm
FL09@5.0'	4/11/2024	5.0 Ft	40.5064171	-104.4423320	1.00	0.0 ppm

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE 100322  
GIBSON 11-9, WELD COUNTY, COLORADO  
REM # 31628

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FL01@5.0'	4/11/2024	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL09@5.0'	4/11/2024	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)
  2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
  3. \* Indicates laboratory minimum detection limit in excess of SSL
  4. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg
- NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE 100322  
GIBSON 11-9, WELD COUNTY, COLORADO  
REM # 31628

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01@5.0'	4/11/2024	5.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL09@5.0'	4/11/2024	5.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. \* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

  = Source material characterization sample, excavated and transported off site for disposal.

  = Material excavated and transported off site for disposal.

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**GIBSON 11-9, WELD COUNTY, COLORADO**  
**REM # 31628**

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01@5.0'	4/11/2024	5.0 Ft	8.04	0.161	0.231	<2.00
FL09@5.0'	4/11/2024	5.0 Ft	<b>8.70</b>	0.0744	0.258	<2.00
BKG01@6.0"	4/11/2024	0.5 Ft	<b>8.39</b>	2.34	<b>15.4</b>	<2.00
BKG01@5.0'	4/11/2024	5.0 Ft	<b>9.15</b>	0.354	2.67	<2.00
BKG01@6.0'	4/11/2024	6.0 Ft	<b>9.20</b>	0.358	2.44	<2.00
BKG02@6.0"	4/11/2024	0.5 Ft	<b>9.15</b>	0.135	0.999	<2.00
BKG02@5.0'	4/11/2024	5.0 Ft	<b>9.27</b>	0.318	2.78	<2.00
BKG02@6.0'	4/11/2024	6.0 Ft	<b>9.04</b>	<0.0100	1.99	<2.00
BKG03@6.0"	4/11/2024	0.5 Ft	7.13	0.0206	0.0322	<2.00
BKG03@5.0'	4/11/2024	5.0 Ft	<b>8.98</b>	0.386	3.26	<2.00
BKG03@6.0'	4/11/2024	6.0 Ft	<b>9.21</b>	0.228	1.04	<2.00
BKG04@6.0"	4/11/2024	0.5 Ft	6.94	0.128	0.139	<2.00
BKG04@5.0'	4/11/2024	5.0 Ft	<b>8.31</b>	0.394	2.13	<2.00
BKG04@6.0'	4/11/2024	6.0 Ft	8.24	1.17	2.69	<2.00
BKG05@6.0"	4/11/2024	0.5 Ft	7.27	0.194	0.0997	<2.00
BKG05@5.0'	4/11/2024	5.0 Ft	7.26	0.638	0.913	<2.00
BKG05@6.0'	4/11/2024	6.0 Ft	<b>8.31</b>	0.590	2.78	<2.00
Maximum Root Background Concentration (0 - 3 ft)			<b>9.15</b>	2.34	<b>15.4</b>	<2.00
Average Root Background Concentration (0 - 3 ft)			7.78	0.564	3.33	<2.00
Maximum Background Concentration			<b>9.27</b>	2.34	<b>15.4</b>	<2.00

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Average Background Concentration			<b>8.39</b>	0.518	2.62	<2.00

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

  = Source material characterization sample, excavated and transported off site for disposal.

  = Material excavated and transported off site for disposal.

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
GIBSON 11-9, WELD COUNTY, COLORADO  
REM # 31628

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01@5.0'	4/11/2024	5.0 Ft	<b>2.25</b>	57.3	<0.200	<0.30	5.34	7.75	3.74	<0.260	0.0201	21.2
FL09@5.0'	4/11/2024	5.0 Ft	<b>2.05</b>	31.9	<0.200	<0.30	4.81	5.67	3.61	<0.260	0.0251	21.1
BKG01@6.0"	4/11/2024	0.5 Ft	<b>4.18</b>	<b>109</b>	0.329	<0.30	5.72	12.3	5.06	<b>0.488</b>	0.0713	48.9
BKG01@5.0'	4/11/2024	5.0 Ft	<b>2.72</b>	37.3	<0.181	<0.30	2.18	3.89	2.25	<0.236	0.0219	12.5
BKG01@6.0'	4/11/2024	6.0 Ft	<b>4.07</b>	<b>97.6</b>	0.336	<0.30	5.15	11.0	5.11	<0.260	0.0562	48.7
BKG02@6.0"	4/11/2024	0.5 Ft	<b>4.29</b>	71.6	0.312	<0.30	5.74	11.8	5.56	<0.260	0.0889	50.2
BKG02@5.0'	4/11/2024	5.0 Ft	<b>2.46</b>	55.3	<0.200	<0.30	3.55	5.58	3.69	<0.260	0.0335	20.8
BKG02@6.0'	4/11/2024	6.0 Ft	<b>3.01</b>	39.0	0.212	<0.30	4.10	6.77	3.88	<0.260	0.0409	22.2
BKG03@6.0"	4/11/2024	0.5 Ft	<b>3.34</b>	78.0	0.249	<0.30	4.84	8.81	4.11	<0.236	0.0544	35.8
BKG03@5.0'	4/11/2024	5.0 Ft	<b>3.12</b>	<b>135</b>	<0.200	<0.30	3.99	7.09	3.72	<0.260	0.0354	23.8
BKG03@6.0'	4/11/2024	6.0 Ft	<b>2.38</b>	62.3	<0.180	<0.30	3.04	5.19	3.34	<0.234	0.0307	18.6
BKG04@6.0"	4/11/2024	0.5 Ft	<b>3.27</b>	68.8	0.222	<0.30	4.26	7.25	3.90	<0.260	0.0397	27.2
BKG04@5.0'	4/11/2024	5.0 Ft	<b>3.06</b>	52.4	<0.200	<0.30	3.00	4.72	3.34	<0.260	0.0325	17.9
BKG04@6.0'	4/11/2024	6.0 Ft	<b>2.48</b>	59.5	<0.200	<0.30	2.37	4.67	2.76	<0.260	0.0247	15.4
BKG05@6.0"	4/11/2024	0.5 Ft	<b>3.17</b>	51.3	<0.200	<0.30	3.73	5.37	2.91	<0.260	0.0301	20.5
BKG05@5.0'	4/11/2024	5.0 Ft	<b>3.32</b>	76.4	<0.200	<0.30	3.10	5.39	3.34	<0.260	0.0336	18.4
BKG05@6.0'	4/11/2024	6.0 Ft	<b>4.17</b>	<b>86.2</b>	0.232	<0.30	4.72	7.55	4.96	<0.260	0.0592	28.4
Maximum Root Zone Background Concentration (0 - 3 ft)			<b>4.29</b>	<b>109</b>	0.329	<0.30	5.74	12.3	5.56	<b>0.488</b>	0.0889	50.2
125% Average Root Zone Background Concentration (0 - 3 ft)			<b>4.56</b>	<b>94.7</b>	0.328	<0.30	6.07	11.4	5.39	<b>0.376</b>	0.0711	45.7
Maximum Background Concentration			<b>4.29</b>	<b>135</b>	0.336	<0.30	5.74	12.3	5.56	<b>0.488</b>	0.0889	50.2
125% Average Background Concentration			<b>4.09</b>	<b>90.0</b>	0.287	<0.30	4.96	8.95	4.83	<b>0.337</b>	0.0544	34.1

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

# Gibson 11-9

Remediation #: 31628  
API: 05-123-23102  
Facility ID: 278872  
Lat/Long: 40.506190, -104.448170  
NWNW Sec. 9, T6N, R63W  
Fremont Proj. C024-083



# Photo Log



*Description:*

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# Photo Log



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# Photo Log



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# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 10, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Gibson 11-9  
Work Order #2404197

Enclosed are the results of analyses for samples received by Summit Scientific on 04/11/24 15:32. 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 "nd" at the end of the last name.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson 11-9

Project Number: UWRWE-A3675-ABN

Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@5.0	2404197-01	Soil	04/11/24 00:00	04/11/24 15:32
FL09@5.0	2404197-02	Soil	04/11/24 00:00	04/11/24 15:32

Summit Scientific

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

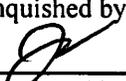
# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2404197	

Client: Fremont Env	Send Data To: Project Manager: Paul Henehan	Send Invoice To: Company: Noble
Address:	E-Mail: Paulh@fremontenv.com	Project Name/Location:
City/State/Zip:	jeffg@fremontenv.com ethenab@fremontenv.com	AFE#:
Phone:	Project Name: Gibson 11-9	PO/Billing Codes: UWDWE-A3675-ABN
Sampler Name: JG	Project Number:	Contact:

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+N	TMBs(915)	DRO,ORO,GRO	PAHs(915)	EC-PH,SAR,Barom		Metals(915)
1	FL01@5.0'	4/11/24		2			XX			XX			XX	XX	XX	XX	XX	XX	
2	FL09@5.0'	4/11/24		2			XX			XX			XX	XX	XX	XX	XX	XX	
3																			
4																			
5																			
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13																			
14																			
15																			

Relinquished by:  Date/Time: 4/11/24 15:32	Received by: J. H. W. d Date/Time: 4/11/24 15:32	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. <input checked="" type="checkbox"/>	
Temperature Upon Receipt: 18.9	Corrected Temperature	IR gun #: 2	HNO3 lot #:	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2404197

Client: Fremont Client Project ID: Gibson 11-9

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

[X] [ ] [ ] [ ] [ ]

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

Temp (°C) 18.9

Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	X			on file
If custody seals are present, are they intact? <sup>(1)</sup>			X	
Are samples due within 48 hours present?		X		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			X	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>		X		No Sample times
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	X			
Were all samples received intact? <sup>(1)</sup>	X			
Was adequate sample volume provided? <sup>(1)</sup>	X			
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	X			
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	X			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>			X	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.			X	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	

Additional Comments (if any):

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

Jay Wild

Custodian Printed Name

4/11/24 15:32

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**FL01@5.0**  
**2404197-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0411	04/12/24	04/17/24	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: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0412	04/12/24	04/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.38	67.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**FL01@5.0**  
**2404197-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0425	04/15/24	04/16/24	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: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0160	47.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0621	04/18/24	05/02/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

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

Project: Noble - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**FL01@5.0**  
**2404197-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	57.3	0.400	mg/kg dry	1	BHD0891	04/24/24	05/16/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.34	0.400	"	"	"	"	"	"	
Lead	7.75	0.200	"	"	"	"	"	"	
Nickel	3.74	0.400	"	"	"	"	"	"	
Silver	0.0201	0.0200	"	"	"	"	"	"	
Zinc	21.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0727	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.0	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	8.89	0.0500	"	"	"	"	"	"	
Sodium	4.87	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.231	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Gibson 11-9  
 Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

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**FL01@5.0**  
**2404197-01 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	93.6	%	1	BHD0587	04/18/24	04/18/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.161	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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 Project Manager: Paul Henchan

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**FL01@5.0**  
**2404197-01 (Soil)**

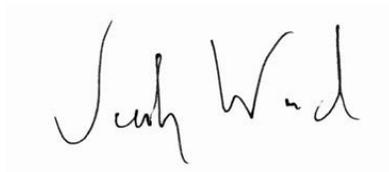
**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>2.25</b>	0.200	mg/kg dry	1	BHE0649	05/21/24	05/31/24	EPA 6020B	

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Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**FL09@5.0**  
**2404197-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0411	04/12/24	04/17/24	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: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0410	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0412	04/12/24	04/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.54	68.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

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06/10/24 11:26

**FL09@5.0**  
**2404197-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0425	04/15/24	04/16/24	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: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0621	04/18/24	05/02/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**FL09@5.0**  
**2404197-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	31.9	0.400	mg/kg dry	1	BHD0891	04/24/24	05/16/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.81	0.400	"	"	"	"	"	"	
Lead	5.67	0.200	"	"	"	"	"	"	
Nickel	3.61	0.400	"	"	"	"	"	"	
Silver	0.0251	0.0200	"	"	"	"	"	"	
Zinc	21.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0727	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.8	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	12.1	0.0500	"	"	"	"	"	"	
Sodium	9.08	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.258	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

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

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**FL09@5.0**  
**2404197-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	89.2	%	1	BHD0587	04/18/24	04/18/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.0744	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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 Project Manager: Paul Henchan

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**FL09@5.0**  
**2404197-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.05	0.200	mg/kg dry	1	BHE0649	05/21/24	05/31/24	EPA 6020B	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.70		pH Units	1	BHE0632	04/30/24	05/21/24	EPA 9045D	

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Project: Noble - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

### 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 BHD0411 - EPA 5030 Soil MS

##### Blank (BHD0411-BLK1)

Prepared: 04/12/24 Analyzed: 04/16/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0507</i>		<i>"</i>	<i>0.0400</i>		<i>127</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>96.9</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.4</i>	<i>50-150</i>			

##### LCS (BHD0411-BS1)

Prepared: 04/12/24 Analyzed: 04/16/24

Benzene	0.0886	0.0020	mg/kg	0.100		88.6	70-130			
Toluene	0.0978	0.0050	"	0.100		97.8	70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130			
m,p-Xylene	0.209	0.010	"	0.200		105	70-130			
o-Xylene	0.102	0.0050	"	0.100		102	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100		106	70-130			
Naphthalene	0.0916	0.0038	"	0.100		91.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0479</i>		<i>"</i>	<i>0.0400</i>		<i>120</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			

##### Matrix Spike (BHD0411-MS1)

Source: 2404188-01

Prepared: 04/12/24 Analyzed: 04/16/24

Benzene	0.0835	0.0020	mg/kg	0.100	ND	83.5	70-130			
Toluene	0.0901	0.0050	"	0.100	ND	90.1	70-130			
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
m,p-Xylene	0.193	0.010	"	0.200	ND	96.4	70-130			
o-Xylene	0.0940	0.0050	"	0.100	ND	94.0	70-130			
1,2,4-Trimethylbenzene	0.0926	0.0050	"	0.100	ND	92.6	70-130			
1,3,5-Trimethylbenzene	0.0950	0.0050	"	0.100	ND	95.0	70-130			
Naphthalene	0.0920	0.0038	"	0.100	ND	92.0	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0454</i>		<i>"</i>	<i>0.0400</i>		<i>113</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0383</i>		<i>"</i>	<i>0.0400</i>		<i>95.7</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.5</i>	<i>50-150</i>			

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Project: Noble - Gibson 11-9  
 Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/10/24 11:26

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BHD0411 - EPA 5030 Soil MS**

Matrix Spike Dup (BHD0411-MSD1)	Source: 2404188-01			Prepared: 04/12/24 Analyzed: 04/16/24					
Benzene	0.0880	0.0020	mg/kg	0.100	ND	88.0	70-130	5.28	30
Toluene	0.0969	0.0050	"	0.100	ND	96.9	70-130	7.22	30
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	4.12	30
m,p-Xylene	0.200	0.010	"	0.200	ND	99.8	70-130	3.38	30
o-Xylene	0.0980	0.0050	"	0.100	ND	98.0	70-130	4.12	30
1,2,4-Trimethylbenzene	0.0962	0.0050	"	0.100	ND	96.2	70-130	3.81	30
1,3,5-Trimethylbenzene	0.0987	0.0050	"	0.100	ND	98.7	70-130	3.90	30
Naphthalene	0.0933	0.0038	"	0.100	ND	93.3	70-130	1.46	30
Surrogate: 1,2-Dichloroethane-d4	0.0469		"	0.0400		117	50-150		
Surrogate: Toluene-d8	0.0386		"	0.0400		96.4	50-150		
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.3	50-150		

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Project: Noble - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**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 BHD0412 - EPA 3550A**

**Blank (BHD0412-BLK1)**

Prepared: 04/12/24 Analyzed: 04/15/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5		104		30-150			

**LCS (BHD0412-BS1)**

Prepared: 04/12/24 Analyzed: 04/15/24

C10-C28 (DRO)	454	50	mg/kg	500		90.8		70-130			
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		103		30-150			

**Matrix Spike (BHD0412-MS1)**

Source: 2404188-01

Prepared: 04/12/24 Analyzed: 04/15/24

C10-C28 (DRO)	456	50	mg/kg	500	15.1	88.1		70-130			
Surrogate: <i>o</i> -Terphenyl	8.67		"	12.5		69.4		30-150			

**Matrix Spike Dup (BHD0412-MSD1)**

Source: 2404188-01

Prepared: 04/12/24 Analyzed: 04/16/24

C10-C28 (DRO)	509	50	mg/kg	500	15.1	98.8		70-130	11.1	20	
Surrogate: <i>o</i> -Terphenyl	8.16		"	12.5		65.3		30-150			

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Wellington CO, 80549

Project: Noble - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**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 BHD0425 - EPA 5030 Soil MS**

**Blank (BHD0425-BLK1)**

Prepared & Analyzed: 04/15/24

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>0.0241</i>		"	<i>0.0333</i>		<i>72.3</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0169</i>		"	<i>0.0333</i>		<i>50.8</i>		<i>40-150</i>		

**LCS (BHD0425-BS1)**

Prepared & Analyzed: 04/15/24

Acenaphthene	0.0231	0.00500	mg/kg	0.0333		69.3		31-137		
Anthracene	0.0271	0.00500	"	0.0333		81.2		30-120		
Benzo (a) anthracene	0.0271	0.00500	"	0.0333		81.3		30-120		
Benzo (a) pyrene	0.0218	0.00500	"	0.0333		65.4		30-120		
Benzo (b) fluoranthene	0.0248	0.00500	"	0.0333		74.4		30-120		
Benzo (k) fluoranthene	0.0288	0.00500	"	0.0333		86.5		30-120		
Chrysene	0.0296	0.00500	"	0.0333		88.8		30-120		
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333		57.4		30-120		
Fluoranthene	0.0271	0.00500	"	0.0333		81.4		30-120		
Fluorene	0.0254	0.00500	"	0.0333		76.1		30-120		
Indeno (1,2,3-cd) pyrene	0.0194	0.00500	"	0.0333		58.1		30-120		
Pyrene	0.0445	0.00500	"	0.0333		134		35-142		
1-Methylnaphthalene	0.0271	0.00500	"	0.0333		81.2		35-142		
2-Methylnaphthalene	0.0260	0.00500	"	0.0333		78.0		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0229</i>		"	<i>0.0333</i>		<i>68.6</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0169</i>		"	<i>0.0333</i>		<i>50.6</i>		<i>40-150</i>		

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Project: Noble - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**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 BHD0425 - EPA 5030 Soil MS**

<b>Matrix Spike (BHD0425-MS1)</b>	<b>Source: 2404193-01</b>			<b>Prepared &amp; Analyzed: 04/15/24</b>								
Acenaphthene	0.0174	0.00500	mg/kg	0.0333	ND	52.2	31-137					
Anthracene	0.0150	0.00500	"	0.0333	ND	44.9	30-120					
Benzo (a) anthracene	0.0349	0.00500	"	0.0333	0.00886	78.1	30-120					
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.5	30-120					
Benzo (b) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.3	30-120					
Benzo (k) fluoranthene	0.0147	0.00500	"	0.0333	ND	44.1	30-120					
Chrysene	0.0244	0.00500	"	0.0333	0.00523	57.6	30-120					
Dibenz (a,h) anthracene	0.0256	0.00500	"	0.0333	ND	76.7	30-120					
Fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	30-120					
Fluorene	0.0193	0.00500	"	0.0333	0.00861	32.2	30-120					
Indeno (1,2,3-cd) pyrene	0.0237	0.00500	"	0.0333	ND	71.2	30-120					
Pyrene	0.0302	0.00500	"	0.0333	ND	90.6	35-142					
1-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.1	15-130					
2-Methylnaphthalene	0.0213	0.00500	"	0.0333	ND	63.8	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.5</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0183</i>		<i>"</i>	<i>0.0333</i>		<i>54.8</i>	<i>40-150</i>					

<b>Matrix Spike Dup (BHD0425-MSD1)</b>	<b>Source: 2404193-01</b>			<b>Prepared &amp; Analyzed: 04/15/24</b>								
Acenaphthene	0.0182	0.00500	mg/kg	0.0333	ND	54.5	31-137	4.39	30			
Anthracene	0.0140	0.00500	"	0.0333	ND	42.0	30-120	6.74	30			
Benzo (a) anthracene	0.0337	0.00500	"	0.0333	0.00886	74.6	30-120	3.47	30			
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120	18.6	30			
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.5	30-120	4.96	30			
Benzo (k) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.7	30-120	5.66	30			
Chrysene	0.0243	0.00500	"	0.0333	0.00523	57.2	30-120	0.538	30			
Dibenz (a,h) anthracene	0.0214	0.00500	"	0.0333	ND	64.3	30-120	17.6	30			
Fluoranthene	0.0171	0.00500	"	0.0333	ND	51.4	30-120	10.5	30			
Fluorene	0.0225	0.00500	"	0.0333	0.00861	41.6	30-120	15.0	30			
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	17.0	30			
Pyrene	0.0305	0.00500	"	0.0333	ND	91.5	35-142	0.953	30			
1-Methylnaphthalene	0.0216	0.00500	"	0.0333	ND	64.7	15-130	4.06	50			
2-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.6	15-130	2.84	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.6</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0174</i>		<i>"</i>	<i>0.0333</i>		<i>52.3</i>	<i>40-150</i>					

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Gibson 11-9  
 Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/10/24 11:26

**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 BHD0621 - EPA 3050B**

**Blank (BHD0621-BLK1)**

Prepared: 04/18/24 Analyzed: 05/02/24

Boron ND 2.00 mg/L

**LCS (BHD0621-BS1)**

Prepared: 04/18/24 Analyzed: 05/02/24

Boron 5.01 2.00 mg/L 5.00 100 80-120

**Duplicate (BHD0621-DUP1)**

Source: 2404188-01

Prepared: 04/18/24 Analyzed: 05/02/24

Boron 0.0454 2.00 mg/L 0.0772 51.9 20

**Matrix Spike (BHD0621-MS1)**

Source: 2404188-01

Prepared: 04/18/24 Analyzed: 05/02/24

Boron 5.34 2.00 mg/L 4.98 0.0772 106 75-125

**Matrix Spike Dup (BHD0621-MSD1)**

Source: 2404188-01

Prepared: 04/18/24 Analyzed: 05/02/24

Boron 5.21 2.00 mg/L 4.98 0.0772 103 75-125 2.55 25

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Project: Noble - Gibson 11-9  
 Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/10/24 11:26

**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 BHD0891 - EPA 3050B**

**Blank (BHD0891-BLK1)**

Prepared: 04/24/24 Analyzed: 05/16/24

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 (BHD0891-BS1)**

Prepared: 04/24/24 Analyzed: 05/16/24

Arsenic	35.8	0.200	mg/kg wet	40.0	89.4	80-120
Barium	39.4	0.400	"	40.0	98.6	80-120
Cadmium	2.00	0.200	"	2.00	100	80-120
Copper	36.1	0.400	"	40.0	90.1	80-120
Lead	19.5	0.200	"	20.0	97.6	80-120
Nickel	40.4	0.400	"	40.0	101	80-120
Silver	1.98	0.0200	"	2.00	98.9	80-120
Zinc	36.3	0.400	"	40.0	90.7	80-120
Selenium	3.91	0.260	"	4.00	97.8	80-120

**Duplicate (BHD0891-DUP1)**

Source: 2404189-01

Prepared: 04/24/24 Analyzed: 05/16/24

Arsenic	2.01	0.200	mg/kg dry	1.74	14.1	20	
Barium	15.1	0.400	"	11.7	25.6	20	QR-04
Cadmium	0.0374	0.200	"	0.0330	12.4	20	
Copper	1.39	0.400	"	1.21	14.2	20	
Lead	2.11	0.200	"	1.75	18.5	20	
Nickel	0.819	0.400	"	0.765	6.83	20	
Silver	0.00911	0.0200	"	0.00905	0.760	20	
Zinc	7.21	0.400	"	6.24	14.5	20	
Selenium	ND	0.260	"	ND		20	

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Project: Noble - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**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 BHD0891 - EPA 3050B**

**Matrix Spike (BHD0891-MS1)**

Source: 2404189-01

Prepared: 04/24/24 Analyzed: 05/16/24

Arsenic	45.5	0.200	mg/kg dry	45.6	1.74	96.0	75-125			
Barium	57.3	0.400	"	45.6	11.7	100	75-125			
Cadmium	2.38	0.200	"	2.28	0.0330	103	75-125			
Copper	45.1	0.400	"	45.6	1.21	96.4	75-125			
Lead	25.2	0.200	"	22.8	1.75	103	75-125			
Nickel	43.1	0.400	"	45.6	0.765	92.9	75-125			
Silver	2.32	0.0200	"	2.28	0.00905	102	75-125			
Zinc	51.7	0.400	"	45.6	6.24	99.8	75-125			
Selenium	4.61	0.260	"	4.56	ND	101	75-125			

**Matrix Spike Dup (BHD0891-MSD1)**

Source: 2404189-01

Prepared: 04/24/24 Analyzed: 05/16/24

Arsenic	44.9	0.200	mg/kg dry	45.6	1.74	94.8	75-125	1.23	25
Barium	57.3	0.400	"	45.6	11.7	100	75-125	0.126	25
Cadmium	2.36	0.200	"	2.28	0.0330	102	75-125	1.08	25
Copper	44.8	0.400	"	45.6	1.21	95.5	75-125	0.879	25
Lead	24.9	0.200	"	22.8	1.75	102	75-125	1.03	25
Nickel	41.9	0.400	"	45.6	0.765	90.2	75-125	2.98	25
Silver	2.29	0.0200	"	2.28	0.00905	100	75-125	1.48	25
Zinc	51.3	0.400	"	45.6	6.24	98.9	75-125	0.793	25
Selenium	4.47	0.260	"	4.56	ND	98.2	75-125	3.09	25

**Batch BHE0649 - EPA 3050B**

**Blank (BHE0649-BLK1)**

Prepared: 05/21/24 Analyzed: 05/31/24

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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Project: Noble - Gibson 11-9  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

**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 BHE0649 - EPA 3050B**

**LCS (BHE0649-BS1)**

Prepared: 05/21/24 Analyzed: 05/31/24

Arsenic	39.9	0.200	mg/kg wet	39.1		102	80-120			
Barium	36.4	0.400	"	39.1		93.1	80-120			
Cadmium	1.88	0.200	"	1.95		96.3	80-120			
Copper	40.9	0.400	"	39.1		105	80-120			
Lead	18.7	0.200	"	19.5		96.0	80-120			
Nickel	40.4	0.400	"	39.1		103	80-120			
Silver	1.87	0.0200	"	1.95		95.7	80-120			
Zinc	40.6	0.400	"	39.1		104	80-120			
Selenium	3.76	0.260	"	3.91		96.2	80-120			

**Duplicate (BHE0649-DUP1)**

Source: 2403444-01

Prepared: 05/21/24 Analyzed: 05/31/24

Arsenic	1.77	0.200	mg/kg dry		1.70			3.94	20	
Barium	65.8	0.400	"		71.8			8.81	20	
Cadmium	0.166	0.200	"		0.131			23.5	20	QR-01
Copper	2.35	0.400	"		2.27			3.45	20	
Lead	6.53	0.200	"		5.59			15.6	20	
Nickel	3.15	0.400	"		3.21			2.07	20	
Silver	0.00849	0.0200	"		0.00909			6.91	20	
Zinc	14.5	0.400	"		16.1			10.5	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BHE0649-MS1)**

Source: 2403444-01

Prepared: 05/21/24 Analyzed: 05/31/24

Arsenic	26.2	0.200	mg/kg dry	41.3	1.70	59.2	75-125			QM-07
Barium	101	0.400	"	41.3	71.8	71.4	75-125			QM-07
Cadmium	2.12	0.200	"	2.07	0.131	96.4	75-125			
Copper	26.6	0.400	"	41.3	2.27	59.0	75-125			QM-07
Lead	25.1	0.200	"	20.7	5.59	94.3	75-125			
Nickel	27.6	0.400	"	41.3	3.21	59.1	75-125			QM-07
Silver	1.96	0.0200	"	2.07	0.00909	94.2	75-125			
Zinc	39.8	0.400	"	41.3	16.1	57.3	75-125			QM-07
Selenium	3.96	0.260	"	4.13	ND	95.7	75-125			

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Project: Noble - Gibson 11-9  
 Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/10/24 11:26

**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 BHE0649 - EPA 3050B**

Matrix Spike Dup (BHE0649-MSD1)	Source: 2403444-01			Prepared: 05/21/24 Analyzed: 05/31/24						
Arsenic	25.9	0.200	mg/kg dry	43.3	1.70	55.8	75-125	1.16	25	QM-07
Barium	97.8	0.400	"	43.3	71.8	59.9	75-125	3.58	25	QM-07
Cadmium	2.19	0.200	"	2.17	0.131	94.9	75-125	2.92	25	
Copper	26.8	0.400	"	43.3	2.27	56.5	75-125	0.455	25	QM-07
Lead	26.4	0.200	"	21.7	5.59	96.2	75-125	5.24	25	
Nickel	27.7	0.400	"	43.3	3.21	56.6	75-125	0.302	25	QM-07
Silver	2.03	0.0200	"	2.17	0.00909	93.5	75-125	3.86	25	
Zinc	40.8	0.400	"	43.3	16.1	57.0	75-125	2.50	25	QM-07
Selenium	4.00	0.260	"	4.33	ND	92.4	75-125	1.14	25	

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Project: Noble - Gibson 11-9  
 Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/10/24 11:26

**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 BHD0727 - 3060A Mod**

**Blank (BHD0727-BLK1)**

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BHD0727-BS1)**

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent      25.8      0.30    mg/kg wet      25.0      103      80-120

**Duplicate (BHD0727-DUP1)**

**Source: 2404193-01**

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BHD0727-MS1)**

**Source: 2404193-01**

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent      29.3      0.30    mg/kg dry      28.9      ND      101      75-125

**Matrix Spike Dup (BHD0727-MSD1)**

**Source: 2404193-01**

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent      29.4      0.30    mg/kg dry      28.9      ND      102      75-125      0.197      20

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Project: Noble - Gibson 11-9  
 Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/10/24 11:26

**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 BHD1028 - General Preparation**

**Blank (BHD1028-BLK1)**

Prepared: 04/29/24 Analyzed: 05/08/24

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

**LCS (BHD1028-BS1)**

Prepared: 04/29/24 Analyzed: 05/08/24

Calcium	5.34	0.0500	mg/L wet	5.00		107	70-130			
Magnesium	5.49	0.0500	"	5.00		110	70-130			
Sodium	4.99	0.0500	"	5.00		99.7	70-130			

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 - Gibson 11-9

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/10/24 11:26

**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 BHD0587 - General Preparation**

**Duplicate (BHD0587-DUP1)**

**Source: 2404189-01**

Prepared & Analyzed: 04/18/24

% Solids	82.1		%		83.8			2.04	20	
----------	------	--	---	--	------	--	--	------	----	--

Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Gibson 11-9  
 Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/10/24 11:26

**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 BHD1102 - General Preparation**

**Blank (BHD1102-BLK1)**

Prepared: 04/30/24 Analyzed: 05/01/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHD1102-BS1)**

Prepared: 04/30/24 Analyzed: 05/01/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

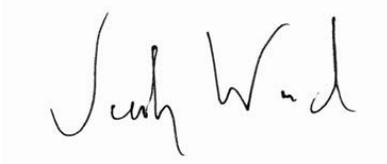
**Duplicate (BHD1102-DUP1)**

**Source: 2404157-01**

Prepared: 04/30/24 Analyzed: 05/01/24

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.146 0.819 20

Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Gibson 11-9  
 Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/10/24 11:26

**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 BHD1101 - General Preparation**

**LCS (BHD1101-BS1)**

Prepared: 04/30/24 Analyzed: 05/01/24

pH	9.11		pH Units	9.18		99.2	95-105		
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**Duplicate (BHD1101-DUP1)**

Source: 2404157-01

Prepared: 04/30/24 Analyzed: 05/01/24

pH	8.98		pH Units	8.97		0.111	20		
----	------	--	----------	------	--	-------	----	--	--

**Batch BHE0632 - General Preparation**

**LCS (BHE0632-BS1)**

Prepared & Analyzed: 05/21/24

pH	9.29		pH Units	9.18		101	95-105		
----	------	--	----------	------	--	-----	--------	--	--

**Duplicate (BHE0632-DUP1)**

Source: 2404197-02RE1

Prepared & Analyzed: 05/21/24

pH	8.69		pH Units	8.70		0.115	20		
----	------	--	----------	------	--	-------	----	--	--

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson 11-9

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/10/24 11:26

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. 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.
- 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 19, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Gibson (Backgrounds)

Work Order #2404198

Enclosed are the results of analyses for samples received by Summit Scientific on 04/11/24 15:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN

Project Manager: Paul Henchan

**Reported:**

06/19/24 16:29

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@6.0"	2404198-01	Soil	04/11/24 00:00	04/11/24 15:32
BKG01@5.0'	2404198-02	Soil	04/11/24 00:00	04/11/24 15:32
BKG01@6.0'	2404198-03	Soil	04/11/24 00:00	04/11/24 15:32
BKG02@6.0"	2404198-04	Soil	04/11/24 00:00	04/11/24 15:32
BKG02@5.0'	2404198-05	Soil	04/11/24 00:00	04/11/24 15:32
BKG02@6.0'	2404198-06	Soil	04/11/24 00:00	04/11/24 15:32
BKG03@6.0"	2404198-07	Soil	04/11/24 00:00	04/11/24 15:32
BKG03@5.0'	2404198-08	Soil	04/11/24 00:00	04/11/24 15:32
BKG03@6.0'	2404198-09	Soil	04/11/24 00:00	04/11/24 15:32
BKG04@6.0"	2404198-10	Soil	04/11/24 00:00	04/11/24 15:32
BKG04@5.0'	2404198-11	Soil	04/11/24 00:00	04/11/24 15:32
BKG04@6.0'	2404198-12	Soil	04/11/24 00:00	04/11/24 15:32
BKG05@6.0"	2404198-13	Soil	04/11/24 00:00	04/11/24 15:32
BKG05@5.0'	2404198-14	Soil	04/11/24 00:00	04/11/24 15:32
BKG05@6.0'	2404198-15	Soil	04/11/24 00:00	04/11/24 15:32

Summit Scientific

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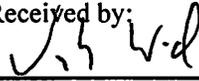
# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
246498	

Client: <b>Fremont Env</b>	Send Data To: Project Manager: <b>Paul Henehan</b>	Send Invoice To: Company: <b>Noble</b>
Address:	E-Mail: <b>Paulh@fremontenv.com</b>	Project Name/Location:
City/State/Zip:	<b>Jeff@fremontenv.com Ethanz@fremontenv.com</b>	AFE#:
Phone:	Project Name: <b>Gibson (Backgrounds)</b>	PO/Billing Codes: <b>UWRWE - A3675-ABN</b>
Sampler Name: <b>JG</b>	Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC, pH, SAR, Boron	Metals (915)		
1	BK601@6.0'	4/11/24		1			X			X			X	X		
2	BK601@5.0'															
3	BK601@6.0'															
4	BK602@6.0'															
5	BK602@5.0'															
6	BK602@6.0'															
7	BK603@6.0'															
8	BK603@5.0'															
9	BK603@6.0'															
10	BK604@6.0'															
11	BK604@5.0'															
12	BK604@6.0'															
13	BK605@6.0'															
14	BK605@5.0'															
15	BK605@6.0'															

Relinquished by:  Date/Time: 4/11/24 1532	Received by:  Date/Time: 4/11/24 1532	TAT Business Days	Field DO	Notes:
		Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
		2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
		Standard	Field Turb. <input checked="" type="checkbox"/>	
Temperature Upon Receipt: 19.0	Corrected Temperature	IR gun #: Z	HNO3 lot #:	

S<sub>2</sub>

S2 Work Order# 2404198

Sample Receipt Checklist

Client: Fremont Client Project ID: Gibson (Backgrounds)

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

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

Temp (°C) 19.0 Thermometer # Z

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on file
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Sample times
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

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

John W. D.  
Custodian Printed Name

4/11/24 15:32  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG01@6.0"**  
**2404198-01 (Soil)**

Summit Scientific

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.18	0.200	mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Cadmium	0.329	0.200	"	"	"	"	"	"	
Copper	5.72	0.400	"	"	"	"	"	"	
Lead	12.3	0.200	"	"	"	"	"	"	
Nickel	5.06	0.400	"	"	"	"	"	"	
Silver	0.0713	0.0200	"	"	"	"	"	"	
Zinc	48.9	0.400	"	"	"	"	"	"	
Selenium	0.488	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	52.3	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	14.0	0.0500	"	"	"	"	"	"	
Sodium	486	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG01@6.0"**  
**2404198-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.4	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.34	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**BKG01@6.0"**  
**2404198-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>109</b>	0.400	mg/kg dry	1	BHF0195	04/25/24	06/13/24	EPA 6020B	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG01@5.0'**  
**2404198-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.72	0.181	mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Cadmium	ND	0.181	"	"	"	"	"	"	
Copper	2.18	0.362	"	"	"	"	"	"	
Lead	3.89	0.181	"	"	"	"	"	"	
Nickel	2.25	0.362	"	"	"	"	"	"	
Silver	0.0219	0.0181	"	"	"	"	"	"	
Zinc	12.5	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	20.9	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	3.36	0.0500	"	"	"	"	"	"	
Sodium	49.8	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG01@5.0'**  
**2404198-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.67	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.354	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.15		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**BKG01@5.0'**  
**2404198-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>37.3</b>	0.400	mg/kg dry	1	BHF0195	04/25/24	06/13/24	EPA 6020B	

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG01@6.0'**  
**2404198-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.07	0.200	mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Cadmium	0.336	0.200	"	"	"	"	"	"	
Copper	5.15	0.400	"	"	"	"	"	"	
Lead	11.0	0.200	"	"	"	"	"	"	
Nickel	5.11	0.400	"	"	"	"	"	"	
Silver	0.0562	0.0200	"	"	"	"	"	"	
Zinc	48.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	53.4	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	17.2	0.0500	"	"	"	"	"	"	
Sodium	80.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG01@6.0'**  
**2404198-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.44	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.4		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.358	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.20		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**BKG01@6.0'**  
**2404198-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>97.6</b>	0.400	mg/kg dry	1	BHF0195	04/25/24	06/13/24	EPA 6020B	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG02@6.0"**  
**2404198-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.29	0.200	mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Barium	71.6	0.400	"	"	"	"	"	"	
Cadmium	0.312	0.200	"	"	"	"	"	"	
Copper	5.74	0.400	"	"	"	"	"	"	
Lead	11.8	0.200	"	"	"	"	"	"	
Nickel	5.56	0.400	"	"	"	"	"	"	
Silver	0.0889	0.0200	"	"	"	"	"	"	
Zinc	50.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	47.7	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	13.4	0.0500	"	"	"	"	"	"	
Sodium	30.3	0.0500	"	"	"	"	"	"	

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Project: Noble - Gibson (Backgrounds)  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG02@6.0"**  
**2404198-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.999</b>	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>82.7</b>		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.135</b>	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>9.15</b>		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG02@5.0'**  
**2404198-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.46	0.200		mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Barium	55.3	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.55	0.400		"	"	"	"	"	"	
Lead	5.58	0.200		"	"	"	"	"	"	
Nickel	3.69	0.400		"	"	"	"	"	"	
Silver	0.0335	0.0200		"	"	"	"	"	"	
Zinc	20.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	20.8	0.0500		mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	4.64	0.0500		"	"	"	"	"	"	
Sodium	53.8	0.0500		"	"	"	"	"	"	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG02@5.0'**  
**2404198-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.78	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.3		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.318	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.27		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG02@6.0'**  
**2404198-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.01	0.200		mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Barium	39.0	0.400		"	"	"	"	"	"	
Cadmium	0.212	0.200		"	"	"	"	"	"	
Copper	4.10	0.400		"	"	"	"	"	"	
Lead	6.77	0.200		"	"	"	"	"	"	
Nickel	3.88	0.400		"	"	"	"	"	"	
Silver	0.0409	0.0200		"	"	"	"	"	"	
Zinc	22.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	52.9	0.0500		mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	15.6	0.0500		"	"	"	"	"	"	
Sodium	64.2	0.0500		"	"	"	"	"	"	

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Project: Noble - Gibson (Backgrounds)  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG02@6.0'**  
**2404198-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.99	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	ND	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.04		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG03@6.0"**  
**2404198-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.34	0.181		mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Cadmium	0.249	0.181		"	"	"	"	"	"	
Copper	4.84	0.362		"	"	"	"	"	"	
Lead	8.81	0.181		"	"	"	"	"	"	
Nickel	4.11	0.362		"	"	"	"	"	"	
Silver	0.0544	0.0181		"	"	"	"	"	"	
Zinc	35.8	0.362		"	"	"	"	"	"	
Selenium	ND	0.236		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	28.4	0.0500		mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	6.32	0.0500		"	"	"	"	"	"	
Sodium	0.728	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG03@6.0"**  
**2404198-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0322	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.0		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0206	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.13		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**BKG03@6.0"**  
**2404198-07 (Soil)**

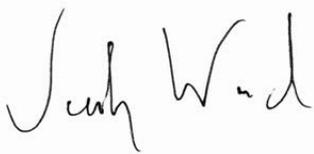
**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>78.0</b>	0.400	mg/kg dry	1	BHF0195	04/25/24	06/13/24	EPA 6020B	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG03@5.0'**  
**2404198-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.12	0.200	mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.99	0.400	"	"	"	"	"	"	
Lead	7.09	0.200	"	"	"	"	"	"	
Nickel	3.72	0.400	"	"	"	"	"	"	
Silver	0.0354	0.0200	"	"	"	"	"	"	
Zinc	23.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	16.8	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	4.96	0.0500	"	"	"	"	"	"	
Sodium	59.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Gibson (Backgrounds)  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG03@5.0'**  
**2404198-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.26	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.0		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.386	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.98		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**BKG03@5.0'**  
**2404198-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>135</b>	0.400	mg/kg dry	1	BHF0195	04/25/24	06/13/24	EPA 6020B	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG03@6.0'**  
**2404198-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>2.38</b>	0.180	mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Cadmium	ND	0.180	"	"	"	"	"	"	
Copper	<b>3.04</b>	0.360	"	"	"	"	"	"	
Lead	<b>5.19</b>	0.180	"	"	"	"	"	"	
Nickel	<b>3.34</b>	0.360	"	"	"	"	"	"	
Silver	<b>0.0307</b>	0.0180	"	"	"	"	"	"	
Zinc	<b>18.6</b>	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>92.8</b>	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	<b>22.2</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>43.1</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG03@6.0'**  
**2404198-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.04	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.228	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.21		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**BKG03@6.0'**  
**2404198-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>62.3</b>	0.400	mg/kg dry	1	BHF0195	04/25/24	06/13/24	EPA 6020B	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG04@6.0"**  
**2404198-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.27	0.200		mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Barium	68.8	0.400		"	"	"	"	"	"	
Cadmium	0.222	0.200		"	"	"	"	"	"	
Copper	4.26	0.400		"	"	"	"	"	"	
Lead	7.25	0.200		"	"	"	"	"	"	
Nickel	3.90	0.400		"	"	"	"	"	"	
Silver	0.0397	0.0200		"	"	"	"	"	"	
Zinc	27.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	23.9	0.0500		mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	9.98	0.0500		"	"	"	"	"	"	
Sodium	3.20	0.0500		"	"	"	"	"	"	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG04@6.0"**  
**2404198-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.139	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.128	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.94		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG04@5.0'**  
**2404198-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>3.06</b>	0.200	mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>3.00</b>	0.400	"	"	"	"	"	"	
Lead	<b>4.72</b>	0.200	"	"	"	"	"	"	
Nickel	<b>3.34</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0325</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>17.9</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>82.6</b>	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	<b>25.8</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>86.6</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Gibson (Backgrounds)  
 Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**BKG04@5.0'**  
**2404198-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.13	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.394	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**BKG04@5.0'**  
**2404198-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>52.4</b>	0.400	mg/kg dry	1	BHF0195	04/25/24	06/13/24	EPA 6020B	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG04@6.0'**  
**2404198-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.48	0.200		mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Barium	59.5	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.37	0.400		"	"	"	"	"	"	
Lead	4.67	0.200		"	"	"	"	"	"	
Nickel	2.76	0.400		"	"	"	"	"	"	
Silver	0.0247	0.0200		"	"	"	"	"	"	
Zinc	15.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	92.6	0.0500		mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	36.7	0.0500		"	"	"	"	"	"	
Sodium	121	0.0500		"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG04@6.0'**  
**2404198-12 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.69	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.17	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG05@6.0"**  
**2404198-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.17	0.200	mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.73	0.400	"	"	"	"	"	"	
Lead	5.37	0.200	"	"	"	"	"	"	
Nickel	2.91	0.400	"	"	"	"	"	"	
Silver	0.0301	0.0200	"	"	"	"	"	"	
Zinc	20.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	38.8	0.0500	mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	17.0	0.0500	"	"	"	"	"	"	
Sodium	2.96	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Gibson (Backgrounds)  
Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG05@6.0"**  
**2404198-13 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0997	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.5		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.194	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.27		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**BKG05@6.0"**  
**2404198-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>51.3</b>	0.400	mg/kg dry	1	BHF0195	04/25/24	06/13/24	EPA 6020B	

Summit Scientific



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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG05@5.0'**  
**2404198-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.32	0.200		mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Barium	76.4	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.10	0.400		"	"	"	"	"	"	
Lead	5.39	0.200		"	"	"	"	"	"	
Nickel	3.34	0.400		"	"	"	"	"	"	
Silver	0.0336	0.0200		"	"	"	"	"	"	
Zinc	18.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	77.5	0.0500		mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	16.8	0.0500		"	"	"	"	"	"	
Sodium	34.0	0.0500		"	"	"	"	"	"	

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Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG05@5.0'**  
**2404198-14 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.913</b>	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>96.3</b>		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.638</b>	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.26</b>		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Project Number: UWRWE-A3675-ABN  
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**Reported:**  
06/19/24 16:29

**BKG05@6.0'**  
**2404198-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0627	04/18/24	05/30/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.17	0.200		mg/kg dry	1	BHD0949	04/25/24	05/03/24	EPA 6020B	
Barium	86.2	0.400		"	"	"	"	"	"	
Cadmium	0.232	0.200		"	"	"	"	"	"	
Copper	4.72	0.400		"	"	"	"	"	"	
Lead	7.55	0.200		"	"	"	"	"	"	
Nickel	4.96	0.400		"	"	"	"	"	"	
Silver	0.0592	0.0200		"	"	"	"	"	"	
Zinc	28.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0732	04/22/24	04/22/24	EPA 7196A	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	46.1	0.0500		mg/L dry	1	BHD1028	04/29/24	05/08/24	EPA 6020B	
Magnesium	6.75	0.0500		"	"	"	"	"	"	
Sodium	76.3	0.0500		"	"	"	"	"	"	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**BKG05@6.0'**  
**2404198-15 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.78	0.00100	units	1	BHE0274	05/08/24	05/08/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BHD0588	04/18/24	04/18/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.590	0.0100	mmhos/cm	1	BHD1102	04/30/24	05/01/24	EPA 120.1	

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

Date Sampled: **04/11/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHD1101	04/30/24	05/01/24	EPA 9045D	

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**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 BHD0627 - EPA 3050B**

**Blank (BHD0627-BLK1)**

Prepared: 04/18/24 Analyzed: 05/30/24

Boron ND 2.00 mg/L

**LCS (BHD0627-BS1)**

Prepared: 04/18/24 Analyzed: 05/30/24

Boron 5.03 2.00 mg/L 5.00 101 80-120

**Duplicate (BHD0627-DUP1)**

**Source: 2404198-01**

Prepared: 04/18/24 Analyzed: 05/30/24

Boron 1.02 2.00 mg/L 1.05 2.68 20

**Matrix Spike (BHD0627-MS1)**

**Source: 2404198-01**

Prepared: 04/18/24 Analyzed: 05/30/24

Boron 5.79 2.00 mg/L 4.96 1.05 95.6 75-125

**Matrix Spike Dup (BHD0627-MSD1)**

**Source: 2404198-01**

Prepared: 04/18/24 Analyzed: 05/30/24

Boron 6.21 2.00 mg/L 4.96 1.05 104 75-125 6.98 25

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

**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 BHD0949 - EPA 3050B**

**Blank (BHD0949-BLK1)**

Prepared: 04/25/24 Analyzed: 05/03/24

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 (BHD0949-BS1)**

Prepared: 04/25/24 Analyzed: 05/03/24

Arsenic	38.4	0.200	mg/kg wet	40.0	95.9	80-120
Barium	39.8	0.400	"	40.0	99.4	80-120
Cadmium	1.95	0.200	"	2.00	97.7	80-120
Copper	40.1	0.400	"	40.0	100	80-120
Lead	19.4	0.200	"	20.0	96.8	80-120
Nickel	39.9	0.400	"	40.0	99.8	80-120
Silver	1.96	0.0200	"	2.00	98.0	80-120
Zinc	38.0	0.400	"	40.0	95.1	80-120
Selenium	3.84	0.260	"	4.00	96.0	80-120

**Duplicate (BHD0949-DUP1)**

Source: 2402537-01

Prepared: 04/25/24 Analyzed: 05/03/24

Arsenic	1.57	0.200	mg/kg dry	1.73	9.69	20	
Barium	214	0.400	"	305	35.2	20	QR-04
Cadmium	0.207	0.200	"	0.225	8.20	20	
Copper	11.1	0.400	"	13.1	16.5	20	
Lead	33.6	0.200	"	38.2	13.0	20	
Nickel	3.52	0.400	"	3.72	5.47	20	
Silver	0.0436	0.0200	"	0.0386	12.2	20	
Zinc	175	0.400	"	134	26.5	20	QR-04
Selenium	ND	0.260	"	ND		20	

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Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**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 BHD0949 - EPA 3050B**

<b>Matrix Spike (BHD0949-MS1)</b>	<b>Source: 2402537-01</b>			<b>Prepared: 04/25/24 Analyzed: 05/03/24</b>								
Arsenic	47.4	0.200	mg/kg dry	45.8	1.73	99.8	75-125					
Barium	237	0.400	"	45.8	305	NR	75-125					QM-05
Cadmium	2.50	0.200	"	2.29	0.225	99.3	75-125					
Copper	42.2	0.400	"	45.8	13.1	63.5	75-125					QM-05
Lead	55.4	0.200	"	22.9	38.2	74.8	75-125					QM-07
Nickel	36.0	0.400	"	45.8	3.72	70.6	75-125					QM-05
Silver	2.24	0.0200	"	2.29	0.0386	96.3	75-125					
Zinc	174	0.400	"	45.8	134	87.3	75-125					
Selenium	4.17	0.260	"	4.58	ND	91.0	75-125					

<b>Matrix Spike Dup (BHD0949-MSD1)</b>	<b>Source: 2402537-01</b>			<b>Prepared: 04/25/24 Analyzed: 05/03/24</b>								
Arsenic	46.9	0.200	mg/kg dry	45.8	1.73	98.6	75-125	1.23	25			
Barium	237	0.400	"	45.8	305	NR	75-125	0.0210	25			QM-05
Cadmium	2.45	0.200	"	2.29	0.225	97.1	75-125	1.98	25			
Copper	42.1	0.400	"	45.8	13.1	63.3	75-125	0.188	25			QM-07
Lead	55.4	0.200	"	22.9	38.2	75.0	75-125	0.0728	25			
Nickel	35.8	0.400	"	45.8	3.72	70.0	75-125	0.708	25			QM-05
Silver	2.25	0.0200	"	2.29	0.0386	96.4	75-125	0.163	25			
Zinc	171	0.400	"	45.8	134	80.8	75-125	1.71	25			
Selenium	4.19	0.260	"	4.58	ND	91.4	75-125	0.395	25			

**Batch BHF0195 - EPA 3050B**

<b>Blank (BHF0195-BLK1)</b>	<b>Prepared: 06/07/24 Analyzed: 06/13/24</b>											
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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**Reported:**  
06/19/24 16:29

**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 BHF0195 - EPA 3050B**

**LCS (BHF0195-BS1)**

Prepared: 06/07/24 Analyzed: 06/13/24

Arsenic	35.7	0.200	mg/kg wet	40.0		89.3	80-120			
Barium	38.0	0.400	"	40.0		95.0	80-120			
Cadmium	1.92	0.200	"	2.00		95.8	80-120			
Copper	37.1	0.400	"	40.0		92.7	80-120			
Lead	19.5	0.200	"	20.0		97.3	80-120			
Nickel	35.9	0.400	"	40.0		89.8	80-120			
Silver	1.91	0.0200	"	2.00		95.6	80-120			
Zinc	35.5	0.400	"	40.0		88.7	80-120			
Selenium	3.54	0.260	"	4.00		88.6	80-120			

**Duplicate (BHF0195-DUP1)**

Source: 2403188-02RE1

Prepared: 06/07/24 Analyzed: 06/13/24

Arsenic	2.41	0.181	mg/kg wet		2.85			16.7	20	
Barium	89.1	0.362	"		94.1			5.46	20	
Cadmium	0.183	0.181	"		0.187			2.40	20	
Copper	7.49	0.362	"		7.66			2.27	20	
Lead	5.45	0.181	"		5.56			2.16	20	
Nickel	5.90	0.362	"		6.03			2.25	20	
Silver	0.0275	0.0181	"		0.0278			0.873	20	
Zinc	28.0	0.362	"		27.2			2.80	20	
Selenium	ND	0.236	"		ND				20	

**Matrix Spike (BHF0195-MS1)**

Source: 2403188-02RE1

Prepared: 06/07/24 Analyzed: 06/13/24

Arsenic	35.4	0.200	mg/kg wet	36.5	2.85	89.1	75-125			
Barium	116	0.400	"	36.5	94.1	59.0	75-125			QM-07
Cadmium	1.97	0.200	"	1.82	0.187	97.5	75-125			
Copper	40.6	0.400	"	36.5	7.66	90.2	75-125			
Lead	21.1	0.200	"	18.2	5.56	85.2	75-125			
Nickel	38.7	0.400	"	36.5	6.03	89.4	75-125			
Silver	1.76	0.0200	"	1.82	0.0278	95.1	75-125			
Zinc	60.2	0.400	"	36.5	27.2	90.3	75-125			
Selenium	2.84	0.260	"	3.65	ND	77.9	75-125			

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Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

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 06/19/24 16:29

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHF0195 - EPA 3050B**

Matrix Spike Dup (BHF0195-MSD1)	Source: 2403188-02RE1			Prepared: 06/07/24		Analyzed: 06/13/24					
Arsenic	34.8	0.200	mg/kg wet	36.5	2.85	87.5	75-125	1.76	25		
Barium	115	0.400	"	36.5	94.1	56.2	75-125	0.892	25		QM-07
Cadmium	1.94	0.200	"	1.82	0.187	95.8	75-125	1.53	25		
Copper	40.0	0.400	"	36.5	7.66	88.7	75-125	1.35	25		
Lead	21.1	0.200	"	18.2	5.56	85.1	75-125	0.0398	25		
Nickel	37.9	0.400	"	36.5	6.03	87.4	75-125	1.85	25		
Silver	1.76	0.0200	"	1.82	0.0278	95.0	75-125	0.0414	25		
Zinc	59.2	0.400	"	36.5	27.2	87.6	75-125	1.66	25		
Selenium	2.83	0.260	"	3.65	ND	77.4	75-125	0.618	25		

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**Reported:**  
 06/19/24 16:29

**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 BHD0732 - 3060A Mod**

**Blank (BHD0732-BLK1)**

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BHD0732-BS1)**

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent      25.8      0.30    mg/kg wet      25.0      103      80-120

**Duplicate (BHD0732-DUP1)**

**Source: 2404198-01**

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BHD0732-MS1)**

**Source: 2404198-01**

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent      26.3      0.30    mg/kg dry      28.5      ND      92.2      75-125

**Matrix Spike Dup (BHD0732-MSD1)**

**Source: 2404198-01**

Prepared & Analyzed: 04/22/24

Chromium, Hexavalent      26.5      0.30    mg/kg dry      28.5      ND      92.8      75-125      0.649      20

Summit Scientific

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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**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 BHD1028 - General Preparation**

**Blank (BHD1028-BLK1)**

Prepared: 04/29/24 Analyzed: 05/08/24

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

**LCS (BHD1028-BS1)**

Prepared: 04/29/24 Analyzed: 05/08/24

Calcium	5.34	0.0500	mg/L wet	5.00		107	70-130			
Magnesium	5.49	0.0500	"	5.00		110	70-130			
Sodium	4.99	0.0500	"	5.00		99.7	70-130			

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 - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**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 BHD0588 - General Preparation**

**Duplicate (BHD0588-DUP1)**

**Source: 2404198-01**

Prepared & Analyzed: 04/18/24

% Solids	87.7		%		87.7			0.00132	20	
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Summit Scientific



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 PO Box 1289  
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Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**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			%REC	Limits	RPD	Limit	

**Batch BHD1102 - General Preparation**

**Blank (BHD1102-BLK1)**

Prepared: 04/30/24 Analyzed: 05/01/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHD1102-BS1)**

Prepared: 04/30/24 Analyzed: 05/01/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BHD1102-DUP1)**

Source: 2404157-01

Prepared: 04/30/24 Analyzed: 05/01/24

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.146 0.819 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 06/19/24 16:29

**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 BHD1101 - General Preparation**

**LCS (BHD1101-BS1)**

Prepared: 04/30/24 Analyzed: 05/01/24

pH	9.11	pH Units	9.18	99.2	95-105
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**Duplicate (BHD1101-DUP1)**

Source: 2404157-01

Prepared: 04/30/24 Analyzed: 05/01/24

pH	8.98	pH Units	8.97	0.111	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Gibson (Backgrounds)

Project Number: UWRWE-A3675-ABN

Project Manager: Paul Henchan

**Reported:**  
06/19/24 16:29

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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.
- 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