

TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. - BOULTER 14-12G

Soil Sample ID	Date	PID (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude ¹	Longitude	PDOP
AST01@0.5	11/30/23	1.1	No Staining	No Odor	Lab	40.30789422	-104.6387650	1.0
FS01@7'	11/30/23	28.7	No Staining	No Odor	Lab	40.30790437	-104.6388525	0.9
MH01@0.5'	11/30/23	0.3	No Staining	No Odor	Grab	40.30791023	-104.6391431	0.9
SEP01-FL@3'	11/30/23	0.2	No Staining	No Odor	Lab	40.30794172	-104.6391050	0.9
SEP01-DL@3'	11/30/23	1.3	No Staining	No Odor	Lab	40.30793267	-104.6391464	0.9
SS01@2.5	11/30/23	0.8	No Staining	No Odor	Lab	40.30793191	-104.6388393	0.9
SS02@2.5	11/30/23	2.0	No Staining	No Odor	Lab	40.30790164	-104.6388078	0.9
SS03@2.5'	11/30/23	1.1	No Staining	No Odor	Lab	40.30787136	-104.6388551	0.9
SS04@2.5'	11/30/23	0.1	No Staining	No Odor	Lab	40.30791059	-104.6388925	0.8

Notes:

PID = Photoionization detector

ppm = parts per million

PDOP = Position dilution of precision

HC = Hydrocarbon

1.) Latitude and longitude coordinates will be provided in decimal degrees with an accuracy and precision of 5 decimals of a degree using the North American Datum ("NAD") of 1983

TABLE 2
SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - BOULTER 14-12G

Soil Sample ID	Date	¹ Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4 - TMB (mg/kg)	1,3,5 - TMB (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a) (mg/kg)	Benzo(a) (mg/kg)	Benzo(b) (mg/kg)	Benzo(k) (mg/kg)	Chrysene (mg/kg)	A,H (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	Pyrene (mg/kg)	1-M (mg/kg)	2-M (mg/kg)
Residential SSL ²		1.2	490	5.8	58	30	27	2	500			360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
Protection of Groundwater SSL ^{2,3}		0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500			0.55	6	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
AST01@0.5	11/30/23	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<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
FS01@7'	11/30/23	<0.0020	0.019	0.011	0.051	<0.0050	<0.0050	0.0062	2.4	<50	<50	<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	0.0156
SEP01-FL@3'	11/30/23	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	91	<50	<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
SEP01-DL@3'	11/30/23	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<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
SS01@2.5	11/30/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
SS02@2.5	11/30/23	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<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
SS03@2.5	11/30/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
SS04@2.5	11/30/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP

Soil Sample ID	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
Residential SSL ²		6 - 8.3	<6	<4mmhos/cm	2
AST01@0.5	11/30/23	8.29	0.262	0.178	<2.00
FS01@7'	11/30/23	8.57	4.50	1.25	<2.00
SEP01-FL@3'	11/30/23	7.85	3.43	1.00	<2.00
SEP01-DL@3'	11/30/23	8.21	0.0311	0.182	<2.00
SS01@2.5	11/30/23	RP	RP	RP	RP
SS02@2.5	11/30/23	8.30	0.231	0.199	<2.00
SS03@2.5	11/30/23	RP	RP	RP	RP
SS04@2.5	11/30/23	RP	RP	RP	RP

Sample ID	Date Sampled	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)
Residential SSL ²		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Protection of Groundwater SSL ^{2,3}		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
AST01@0.5	11/30/23	2.24	67.3	<0.200	<0.30	4.28	5.95	3.60	<0.260	0.0238	15.8
FS01@7'	11/30/23	2.49	57.4	<0.200	<0.30	4.41	6.14	4.02	<0.260	0.0333	16.6
SEP01-FL@3'	11/30/23	2.20	46.1	<0.200	<0.30	4.21	5.97	3.29	<0.260	0.0477	15.7
SEP01-DL@3'	11/30/23	1.41	35.2	<0.200	<0.30	2.97	3.97	2.59	<0.260	0.0202	11.7
SS01@2.5	11/30/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
SS02@2.5	11/30/23	3.42	126	0.217	<0.30	6.86	8.95	6.24	<0.260	0.638	21.0
SS03@2.5	11/30/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
SS04@2.5	11/30/23	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP

Notes:

- Compounds referenced from 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
- SSLs are applicable if a pathway for communication with groundwater is present.

Definitions:

ECMC = Energy and Carbon Management Commission
 TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
 TPH-DRO = Total petroleum hydrocarbons - diesel range organics
 TPH-ORO = Total petroleum hydrocarbons - oil range organics
 mg/kg = Milligrams per kilogram
 SAR = Sodium Adsorption Ratio
 EC = Electrical Conductivity
 mmhos/cm = Millimhos per centimeter
 mg/L = Milligrams per liter

1,2,4 - TMB = 1,2,4 Trimethylbenzene
 1,3,5 - TMB = 1,3,5 Trimethylbenzene
 Benz(a) = Benzo(a)anthracene
 Benzo(b) = Benzo(b)fluoranthene
 Benzo(k) = Benzo(k)fluoranthene
 Benzo(a) = Benzo(a)pyrene
 A,H = Dibenzo(a,h)anthracene
 1,2,3-CD = Indeno(1,2,3-cd)pyrene
 1-M = 1-methylnaphthalene
 2-M = 2-methylnaphthalene
 RP = Results Pending

< = Analytical result is less than the indicated laboratory reporting limit

Highlighted results are equal to or exceed the ECMC Table 915-1 standard

Photographic Log



Equipment ID: MH01 @ 0.5'		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Facing South			

Equipment ID: SEP01-DL @ 3'		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Facing East			

Photographic Log

					
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Facing South			Notes/Conditions: Facing North		

Photographic Log



Equipment ID:SS02@2.5'

Equipment Type:Partially Buried Vault

Material:

Volume:

Contents:

Notes/Conditions: Facing East

Equipment ID:SS03@2.5'

Equipment Type:Partially Buried Vault

Material:

Volume:

Contents:

Notes/Conditions: Facing South

Photographic Log

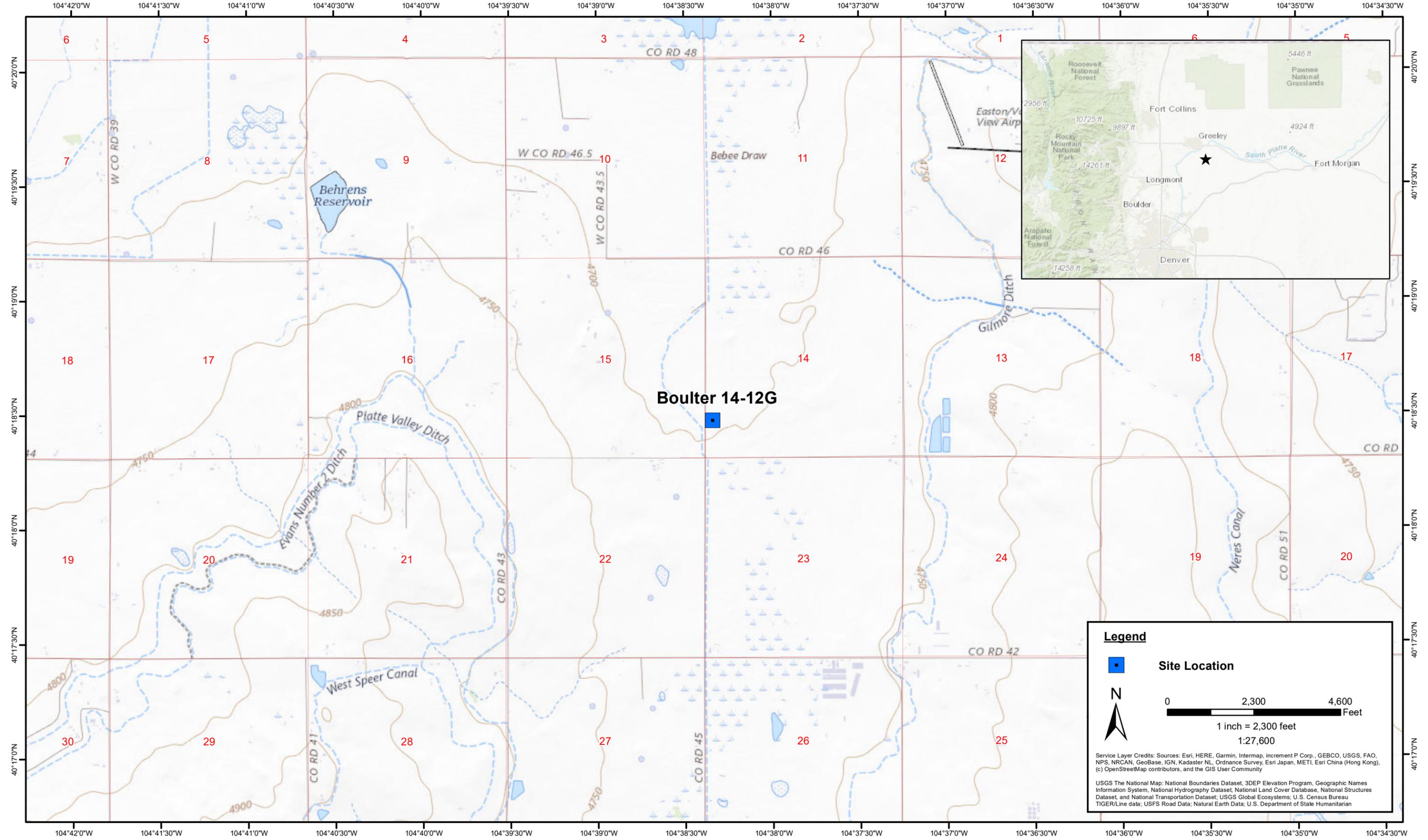


Equipment ID: SS04@2.5'			Equipment Type: Partially Buried Vault			Equipment ID: FS01@7'			Equipment Type: Partially Buried Vault		
Material:			Volume:			Material:			Volume:		
Contents:						Contents:					
Notes/Conditions: Facing West						Notes/Conditions: Facing West					

Photographic Log



Equipment ID: AST01@0.5'		Equipment Type: Above Ground Storage Tank		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Facing South				Notes/Conditions:			



DATE:	January 2024
DESIGNED BY:	J. Whritenour
DRAWN BY:	J. Woffinden

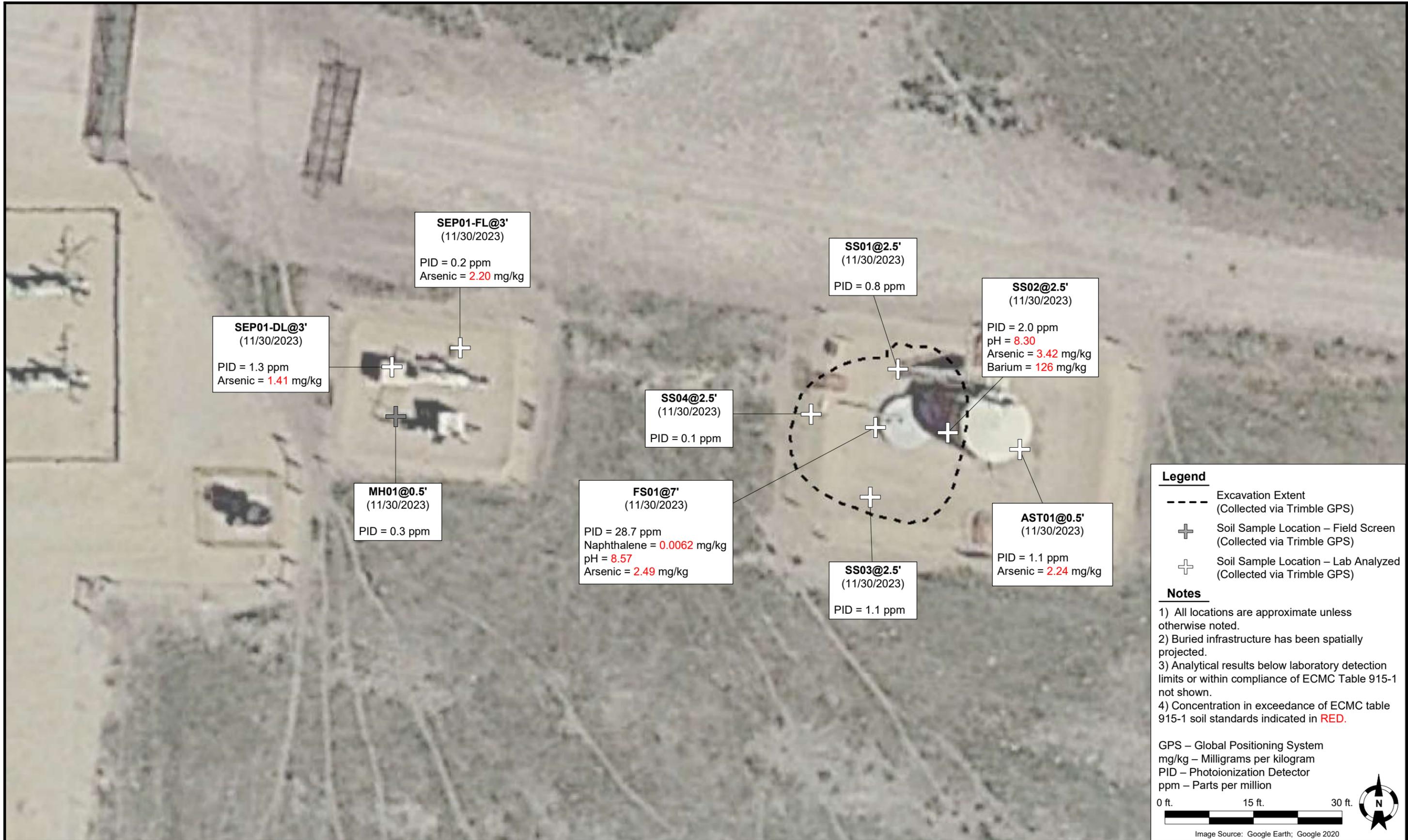


Tasman, Inc.
 6855 W. 119th Ave
 Broomfield, CO 80020

Noble Energy, Inc - DJ Basin
Boulder 14-12G
 SWSW, Section 14, Township 4 North, Range 65 West
 Weld County, Colorado

Site Location Map

Figure
1



Legend

- Excavation Extent (Collected via Trimble GPS)
- + Soil Sample Location – Field Screen (Collected via Trimble GPS)
- + Soil Sample Location – Lab Analyzed (Collected via Trimble GPS)

Notes

- 1) All locations are approximate unless otherwise noted.
- 2) Buried infrastructure has been spatially projected.
- 3) Analytical results below laboratory detection limits or within compliance of ECMC Table 915-1 not shown.
- 4) Concentration in exceedance of ECMC table 915-1 soil standards indicated in RED.

GPS – Global Positioning System
 mg/kg – Milligrams per kilogram
 PID – Photoionization Detector
 ppm – Parts per million

0 ft. 15 ft. 30 ft.

Image Source: Google Earth; Google 2020

DATE: 01/12/2023

DESIGNED BY: JW

DRAWN BY: HM

TASMAN
GEOSCIENCES

Tasman Geosciences, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Boulter 14-12G
 SWSW, Section 14, Township 4 North, Range 65 West
 Weld County, Colorado

Tank Battery Closure & Soil
 Analytical Results Map
 (11/30/2023)

FIGURE
2

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 12, 2024

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

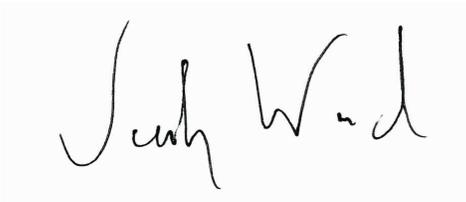
Broomfield, CO 80020

RE: Noble - Boulter 14-12G FAC

Work Order #2311618

Enclosed are the results of analyses for samples received by Summit Scientific on 11/30/23 17:55. 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 large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS02@2.5'	2311618-02	Soil	11/30/23 09:32	11/30/23 17:55
SEP01-FL@3'	2311618-05	Soil	11/30/23 09:20	11/30/23 17:55
SEP01-DL@3'	2311618-06	Soil	11/30/23 09:23	11/30/23 17:55
AST01@0.5'	2311618-07	Soil	11/30/23 09:50	11/30/23 17:55
FS01@7'	2311618-08	Soil	11/30/23 09:48	11/30/23 17:55

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.



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

Lab ID	Page 1 of 1
2311618	

Send Data To:		Send Invoice To:
Client: Noble/Tasman	Project Manager: Jake Whritenour	Company: Noble
Address: 6855 W. 119th Ave.	E-Mail: Jwhritenour@tasman-geo.com	Project Name/Location: Boulder 14-126 (FAC)
City/State/Zip: Broomfield/CO/ 80020		AFE#:
Phone:	Project Name: Boulder 14-126 (FAC)	PO/Billing Codes:
Sampler Name: Aiden Franklin	Project Number:	Contact: Miguel Barron

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD			
1	SS01@2.5'	11/30/23	0930	3						X				X	X	X	X	X	X	X		SAR, EC, pH by saturated paste
2	SS02@2.5'		0932											X	X	X	X	X	X	X		
3	SS03@2.5'		0934											X	X	X	X	X	X	X		
4	SS04@2.5'		0936											X	X	X	X	X	X	X		
5	SEP01-FL@3'		0920											X	X	X	X	X	X	X		
6	SEP01-DL@3'		0923											X	X	X	X	X	X	X		
7	AST01@0.5'		0950											X	X	X	X	X	X	X		
8	FS01@7'	↓	0948	↓										↓	↓	↓	↓	↓	↓	↓		
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <i>Aiden Franklin</i>	Date/Time: 11/30/23 16:00	Received by: Tasman Lock Box	Date/Time: 11/30/23 16:00	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lock Box	Date/Time: 11/30/23 17:55	Received by: <i>[Signature]</i>	Date/Time: 11/30/23 17:55	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 19.7	Corrected Temperature: <i>6</i>	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2311618

Client: Noble Tazman

Client Project ID: Boulter 14-12G (FAE)

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

Airbill #: _____

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

Temp (°C) 19.7

Thermometer # 1

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

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

AS
Custodian Printed Name

11/30/23
Date/Time

11/30/23



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulder 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SS02@2.5'
2311618-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGL0149	12/05/23	12/06/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0567	142 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0420	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0433	108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGL0156	12/05/23	12/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/30/23 09:32**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulder 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SS02@2.5'
2311618-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0218	12/06/23	12/08/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0218	65.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0262	12/07/23	12/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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.



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SS02@2.5'
2311618-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.42	0.200	mg/kg dry	1	BGL0295	12/08/23	12/14/23	EPA 6020B
Barium	126	0.400	"	"	"	"	"	"
Cadmium	0.217	0.200	"	"	"	"	"	"
Copper	6.86	0.400	"	"	"	"	"	"
Lead	8.95	0.200	"	"	"	"	"	"
Nickel	6.24	0.400	"	"	"	"	"	"
Silver	0.0638	0.0200	"	"	"	"	"	"
Zinc	21.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0217	12/06/23	12/07/23	EPA 7196A	

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

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.8	0.0500	mg/L dry	1	BGL0701	12/19/23	12/27/23	EPA 6020B	
Magnesium	10.4	0.0500	"	"	"	"	"	"	
Sodium	5.63	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.231	0.00100	units	1	BGL0949	12/27/23	12/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 09:32**

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

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SS02@2.5'
2311618-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.2	%	1	BGL0320	12/08/23	12/08/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.199	0.0100	mmhos/cm	1	BGL0736	12/20/23	12/20/23	EPA 120.1	

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

Date Sampled: **11/30/23 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BGL0737	12/20/23	12/20/23	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SEP01-FL@3'
2311618-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGL0149	12/05/23	12/06/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0566	141 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0423	106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0431	108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGL0156	12/05/23	12/05/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.52	68.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SEP01-FL@3'
2311618-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0218	12/06/23	12/08/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0262	12/07/23	12/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SEP01-FL@3'
2311618-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.41	0.200	mg/kg dry	1	BGL0295	12/08/23	12/14/23	EPA 6020B	
Barium	35.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.97	0.400	"	"	"	"	"	"	
Lead	3.97	0.200	"	"	"	"	"	"	
Nickel	2.59	0.400	"	"	"	"	"	"	
Silver	0.0202	0.0200	"	"	"	"	"	"	
Zinc	11.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0217	12/06/23	12/07/23	EPA 7196A	

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

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	222	0.0500	mg/L dry	1	BGL0701	12/19/23	12/27/23	EPA 6020B	
Magnesium	33.6	0.0500	"	"	"	"	"	"	
Sodium	1.88	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0311	0.00100	units	1	BGL0949	12/27/23	12/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SEP01-FL@3'
2311618-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3		%	1	BGL0320	12/08/23	12/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.182	0.0100	mmhos/cm	1	BGL0736	12/20/23	12/20/23	EPA 120.1	

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

Date Sampled: **11/30/23 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BGL0737	12/20/23	12/20/23	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SEP01-DL@3'
2311618-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 09:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGL0149	12/05/23	12/06/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 09:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0592	148 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0434	108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 09:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	91	50		mg/kg	1	BGL0156	12/05/23	12/06/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/30/23 09:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.80	70.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulder 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SEP01-DL@3'
2311618-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 09:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0218	12/06/23	12/08/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/30/23 09:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0200	60.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0229	68.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 09:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0262	12/07/23	12/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/30/23 09:23**

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

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SEP01-DL@3'
2311618-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.20	0.200	mg/kg dry	1	BGL0295	12/08/23	12/14/23	EPA 6020B	
Barium	46.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.21	0.400	"	"	"	"	"	"	
Lead	5.97	0.200	"	"	"	"	"	"	
Nickel	3.29	0.400	"	"	"	"	"	"	
Silver	0.0477	0.0200	"	"	"	"	"	"	
Zinc	15.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 09:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0217	12/06/23	12/07/23	EPA 7196A	

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

Date Sampled: 11/30/23 09:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	82.8	0.0500	mg/L dry	1	BGL0701	12/19/23	12/27/23	EPA 6020B	
Magnesium	9.91	0.0500	"	"	"	"	"	"	
Sodium	124	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/30/23 09:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.43	0.00100	units	1	BGL0949	12/27/23	12/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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.



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

SEP01-DL@3'
2311618-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 09:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.3			%	1	BGL0320	12/08/23	12/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 09:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.00	0.0100		mmhos/cm	1	BGL0736	12/20/23	12/20/23	EPA 120.1	

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

Date Sampled: **11/30/23 09:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.85			pH Units	1	BGL0737	12/20/23	12/20/23	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

AST01@0.5'
2311618-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGL0149	12/05/23	12/06/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0562	141 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0431	108 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0437	109 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGL0156	12/05/23	12/06/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.3	82.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulder 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

AST01@0.5'
2311618-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0218	12/06/23	12/08/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0251	75.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0238	71.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0262	12/07/23	12/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

AST01@0.5'
2311618-07 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.24	0.200	mg/kg dry	1	BGL0295	12/08/23	12/14/23	EPA 6020B	
Barium	67.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.28	0.400	"	"	"	"	"	"	
Lead	5.95	0.200	"	"	"	"	"	"	
Nickel	3.60	0.400	"	"	"	"	"	"	
Silver	0.0238	0.0200	"	"	"	"	"	"	
Zinc	15.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0217	12/06/23	12/07/23	EPA 7196A	

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

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.5	0.0500	mg/L dry	1	BGL0701	12/19/23	12/27/23	EPA 6020B	
Magnesium	6.02	0.0500	"	"	"	"	"	"	
Sodium	5.49	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.262	0.00100	units	1	BGL0949	12/27/23	12/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

AST01@0.5'
2311618-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0		%	1	BGL0320	12/08/23	12/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.178	0.0100	mmhos/cm	1	BGL0736	12/20/23	12/20/23	EPA 120.1	

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

Date Sampled: **11/30/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BGL0737	12/20/23	12/20/23	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

FS01@7'
2311618-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Toluene	0.019	0.0050	mg/kg	1	BGL0149	12/05/23	12/06/23	EPA 8260B	
Ethylbenzene	0.011	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.051	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.4	0.50	"	"	"	"	"	"	

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0598	150 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0445	111 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0471	118 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGL0156	12/05/23	12/06/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	11.4	90.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0218	12/06/23	12/08/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

FS01@7'
2311618-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGL0218	12/06/23	12/08/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0156	0.00500	"	"	"	"	"	"	

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0240	71.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0262	12/07/23	12/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.49	0.200	mg/kg dry	1	BGL0295	12/08/23	12/15/23	EPA 6020B	
Barium	57.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.41	0.400	"	"	"	"	"	"	
Lead	6.14	0.200	"	"	"	"	"	"	
Nickel	4.02	0.400	"	"	"	"	"	"	
Silver	0.0333	0.0200	"	"	"	"	"	"	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

FS01@7'
2311618-08 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Zinc	16.6	0.400	mg/kg dry	1	BGL0295	12/08/23	12/15/23	EPA 6020B	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0217	12/06/23	12/07/23	EPA 7196A	

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

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	153	0.0500	mg/L dry	1	BGL0701	12/19/23	12/27/23	EPA 6020B	
Magnesium	42.3	0.0500	"	"	"	"	"	"	
Sodium	244	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.50	0.00100	units	1	BGL0949	12/27/23	12/27/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.8		%	1	BGL0320	12/08/23	12/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulder 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

FS01@7'
2311618-08 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.25	0.0100	mmhos/cm	1	BGL0736	12/20/23	12/20/23	EPA 120.1	

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

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.57		pH Units	1	BGL0737	12/20/23	12/20/23	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

FS01@7'
2311618-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0032	12/05/23	01/03/24	EPA 8260B	I-04
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-04
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-04
Naphthalene	0.0062	0.0038		"	"	"	"	"	"	I-04

Date Sampled: **11/30/23 09:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0512	128 %		50-150		"	"	"	"	I-04
Surrogate: Toluene-d8	0.0436	109 %		50-150		"	"	"	"	I-04
Surrogate: 4-Bromofluorobenzene	0.0442	110 %		50-150		"	"	"	"	I-04

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Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGL0149 - EPA 5030 Soil MS

Blank (BGL0149-BLK1)

Prepared: 12/05/23 Analyzed: 12/06/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0581		"	0.0400		145	50-150			
<i>Surrogate: Toluene-d8</i>	0.0423		"	0.0400		106	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0428		"	0.0400		107	50-150			

LCS (BGL0149-BS1)

Prepared: 12/05/23 Analyzed: 12/06/23

Benzene	0.114	0.0020	mg/kg	0.100		114	70-130			
Toluene	0.127	0.0050	"	0.100		127	70-130			
Ethylbenzene	0.115	0.0050	"	0.100		115	70-130			
m,p-Xylene	0.224	0.010	"	0.200		112	70-130			
o-Xylene	0.113	0.0050	"	0.100		113	70-130			
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100		116	70-130			
Naphthalene	0.0855	0.0038	"	0.100		85.5	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0528		"	0.0400		132	50-150			
<i>Surrogate: Toluene-d8</i>	0.0440		"	0.0400		110	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0419		"	0.0400		105	50-150			

Matrix Spike (BGL0149-MS1)

Source: 2311618-02

Prepared: 12/05/23 Analyzed: 12/06/23

Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130			
Toluene	0.114	0.0050	"	0.100	ND	114	70-130			
Ethylbenzene	0.0982	0.0050	"	0.100	ND	98.2	70-130			
m,p-Xylene	0.196	0.010	"	0.200	ND	98.2	70-130			
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130			
1,2,4-Trimethylbenzene	0.0897	0.0050	"	0.100	ND	89.7	70-130			
1,3,5-Trimethylbenzene	0.0985	0.0050	"	0.100	ND	98.5	70-130			
Naphthalene	0.0788	0.0038	"	0.100	ND	78.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0594		"	0.0400		148	50-150			
<i>Surrogate: Toluene-d8</i>	0.0446		"	0.0400		112	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0429		"	0.0400		107	50-150			

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulder 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGL0149 - EPA 5030 Soil MS

Matrix Spike Dup (BGL0149-MSD1)

Source: 2311618-02

Prepared: 12/05/23 Analyzed: 12/06/23

Benzene	0.0851	0.0020	mg/kg	0.100	ND	85.1	70-130	17.2	30
Toluene	0.0922	0.0050	"	0.100	ND	92.2	70-130	20.7	30
Ethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130	12.0	30
m,p-Xylene	0.177	0.010	"	0.200	ND	88.3	70-130	10.6	30
o-Xylene	0.0919	0.0050	"	0.100	ND	91.9	70-130	10.9	30
1,2,4-Trimethylbenzene	0.0807	0.0050	"	0.100	ND	80.7	70-130	10.6	30
1,3,5-Trimethylbenzene	0.0900	0.0050	"	0.100	ND	90.0	70-130	9.01	30
Naphthalene	0.0758	0.0038	"	0.100	ND	75.8	70-130	3.96	30
Surrogate: 1,2-Dichloroethane-d4	0.0583		"	0.0400		146	50-150		
Surrogate: Toluene-d8	0.0436		"	0.0400		109	50-150		
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	50-150		

Batch BHA0032 - EPA 5030 Soil MS

Blank (BHA0032-BLK1)

Prepared: 01/02/24 Analyzed: 01/03/24

Benzene	ND	0.0020	mg/kg						
Toluene	ND	0.0050	"						
Ethylbenzene	ND	0.0050	"						
Xylenes (total)	ND	0.010	"						
1,2,4-Trimethylbenzene	ND	0.0050	"						
1,3,5-Trimethylbenzene	ND	0.0050	"						
Naphthalene	ND	0.0038	"						
Gasoline Range Hydrocarbons	ND	0.50	"						
Surrogate: 1,2-Dichloroethane-d4	0.0479		"	0.0400		120	50-150		
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150		
Surrogate: 4-Bromofluorobenzene	0.0443		"	0.0400		111	50-150		

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHA0032 - EPA 5030 Soil MS

LCS (BHA0032-BS1)

Prepared: 01/02/24 Analyzed: 01/03/24

Benzene	0.0945	0.0020	mg/kg	0.100		94.5	70-130			
Toluene	0.123	0.0050	"	0.100		123	70-130			
Ethylbenzene	0.113	0.0050	"	0.100		113	70-130			
m,p-Xylene	0.236	0.010	"	0.200		118	70-130			
o-Xylene	0.120	0.0050	"	0.100		120	70-130			
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
Naphthalene	0.0860	0.0038	"	0.100		86.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0496		"	0.0400		124	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0447		"	0.0400		112	50-150			

Matrix Spike (BHA0032-MS1)

Source: 2312536-01

Prepared: 01/02/24 Analyzed: 01/03/24

Benzene	0.0814	0.0020	mg/kg	0.100	ND	81.4	70-130			
Toluene	0.103	0.0050	"	0.100	ND	103	70-130			
Ethylbenzene	0.0951	0.0050	"	0.100	ND	95.1	70-130			
m,p-Xylene	0.197	0.010	"	0.200	ND	98.4	70-130			
o-Xylene	0.100	0.0050	"	0.100	ND	100	70-130			
1,2,4-Trimethylbenzene	0.0955	0.0050	"	0.100	ND	95.5	70-130			
1,3,5-Trimethylbenzene	0.0982	0.0050	"	0.100	ND	98.2	70-130			
Naphthalene	0.0702	0.0038	"	0.100	ND	70.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0544		"	0.0400		136	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0433		"	0.0400		108	50-150			

Matrix Spike Dup (BHA0032-MSD1)

Source: 2312536-01

Prepared: 01/02/24 Analyzed: 01/03/24

Benzene	0.0815	0.0020	mg/kg	0.100	ND	81.5	70-130	0.184	30	
Toluene	0.102	0.0050	"	0.100	ND	102	70-130	0.468	30	
Ethylbenzene	0.0936	0.0050	"	0.100	ND	93.6	70-130	1.59	30	
m,p-Xylene	0.191	0.010	"	0.200	ND	95.3	70-130	3.22	30	
o-Xylene	0.0953	0.0050	"	0.100	ND	95.3	70-130	4.91	30	
1,2,4-Trimethylbenzene	0.0911	0.0050	"	0.100	ND	91.1	70-130	4.63	30	
1,3,5-Trimethylbenzene	0.0943	0.0050	"	0.100	ND	94.3	70-130	4.15	30	
Naphthalene	0.0840	0.0038	"	0.100	ND	84.0	70-130	17.9	30	
Surrogate: 1,2-Dichloroethane-d4	0.0571		"	0.0400		143	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0445		"	0.0400		111	50-150			

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Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGL0156 - EPA 3550A

Blank (BGL0156-BLK1)

Prepared & Analyzed: 12/05/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	17.2		"	12.5		137		30-150			

LCS (BGL0156-BS1)

Prepared & Analyzed: 12/05/23

C10-C28 (DRO)	504	50	mg/kg	500		101		70-130			
Surrogate: <i>o</i> -Terphenyl	15.7		"	12.5		126		30-150			

Matrix Spike (BGL0156-MS1)

Source: 2311618-02

Prepared & Analyzed: 12/05/23

C10-C28 (DRO)	423	50	mg/kg	500	25.2	79.7		70-130			
Surrogate: <i>o</i> -Terphenyl	8.94		"	12.5		71.6		30-150			

Matrix Spike Dup (BGL0156-MSD1)

Source: 2311618-02

Prepared & Analyzed: 12/05/23

C10-C28 (DRO)	491	50	mg/kg	500	25.2	93.2		70-130	14.8	20	
Surrogate: <i>o</i> -Terphenyl	9.75		"	12.5		78.0		30-150			

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Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGL0218 - EPA 5030 Soil MS

Blank (BGL0218-BLK1)

Prepared: 12/06/23 Analyzed: 12/08/23

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>0.0383</i>		"	<i>0.0333</i>		<i>115</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0311</i>		"	<i>0.0333</i>		<i>93.4</i>	<i>40-150</i>			

LCS (BGL0218-BS1)

Prepared: 12/06/23 Analyzed: 12/08/23

Acenaphthene	0.0222	0.00500	mg/kg	0.0333	66.7	31-137
Anthracene	0.0243	0.00500	"	0.0333	72.8	30-120
Benzo (a) anthracene	0.0262	0.00500	"	0.0333	78.5	30-120
Benzo (a) pyrene	0.0208	0.00500	"	0.0333	62.4	30-120
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333	72.9	30-120
Benzo (k) fluoranthene	0.0286	0.00500	"	0.0333	85.7	30-120
Chrysene	0.0263	0.00500	"	0.0333	78.9	30-120
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	54.1	30-120
Fluoranthene	0.0258	0.00500	"	0.0333	77.4	30-120
Fluorene	0.0255	0.00500	"	0.0333	76.5	30-120
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333	55.4	30-120
Pyrene	0.0252	0.00500	"	0.0333	75.7	35-142
1-Methylnaphthalene	0.0322	0.00500	"	0.0333	96.5	35-142
2-Methylnaphthalene	0.0243	0.00500	"	0.0333	72.9	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0174</i>		"	<i>0.0333</i>	<i>52.1</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0377</i>		"	<i>0.0333</i>	<i>113</i>	<i>40-150</i>

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Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGL0218 - EPA 5030 Soil MS

Matrix Spike (BGL0218-MS1)	Source: 2311599-01			Prepared: 12/06/23 Analyzed: 12/08/23					
Acenaphthene	0.0220	0.00500	mg/kg	0.0333	ND	65.9	31-137		
Anthracene	0.0207	0.00500	"	0.0333	ND	62.1	30-120		
Benzo (a) anthracene	0.0141	0.00500	"	0.0333	ND	42.3	30-120		
Benzo (a) pyrene	0.0191	0.00500	"	0.0333	ND	57.2	30-120		
Benzo (b) fluoranthene	0.0150	0.00500	"	0.0333	ND	44.9	30-120		
Benzo (k) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	30-120		
Chrysene	0.0156	0.00500	"	0.0333	ND	46.9	30-120		
Dibenz (a,h) anthracene	0.0146	0.00500	"	0.0333	ND	43.7	30-120		
Fluoranthene	0.0161	0.00500	"	0.0333	ND	48.2	30-120		
Fluorene	0.0174	0.00500	"	0.0333	ND	52.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0203	0.00500	"	0.0333	ND	61.0	30-120		
Pyrene	0.0161	0.00500	"	0.0333	ND	48.4	35-142		
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.6	15-130		
2-Methylnaphthalene	0.0134	0.00500	"	0.0333	ND	40.2	15-130		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0330</i>		"	<i>0.0333</i>		<i>99.0</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0253</i>		"	<i>0.0333</i>		<i>75.8</i>	<i>40-150</i>		

Matrix Spike Dup (BGL0218-MSD1)	Source: 2311599-01			Prepared: 12/06/23 Analyzed: 12/08/23					
Acenaphthene	0.0224	0.00500	mg/kg	0.0333	ND	67.3	31-137	2.14	30
Anthracene	0.0228	0.00500	"	0.0333	ND	68.5	30-120	9.81	30
Benzo (a) anthracene	0.0163	0.00500	"	0.0333	ND	48.9	30-120	14.7	30
Benzo (a) pyrene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	24.3	30
Benzo (b) fluoranthene	0.0213	0.00500	"	0.0333	ND	63.8	30-120	34.7	30
Benzo (k) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.1	30-120	23.4	30
Chrysene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	4.18	30
Dibenz (a,h) anthracene	0.0215	0.00500	"	0.0333	ND	64.4	30-120	38.4	30
Fluoranthene	0.0142	0.00500	"	0.0333	ND	42.6	30-120	12.4	30
Fluorene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	0.416	30
Indeno (1,2,3-cd) pyrene	0.0136	0.00500	"	0.0333	ND	40.8	30-120	39.7	30
Pyrene	0.0138	0.00500	"	0.0333	ND	41.5	35-142	15.3	30
1-Methylnaphthalene	0.0246	0.00500	"	0.0333	ND	73.9	15-130	24.8	50
2-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.6	15-130	35.5	50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0169</i>		"	<i>0.0333</i>		<i>50.7</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0162</i>		"	<i>0.0333</i>		<i>48.6</i>	<i>40-150</i>		

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

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 BGL0262 - EPA 3050B

Blank (BGL0262-BLK1)

Prepared: 12/07/23 Analyzed: 12/12/23

Boron ND 2.00 mg/L

LCS (BGL0262-BS1)

Prepared: 12/07/23 Analyzed: 12/12/23

Boron 5.96 2.00 mg/L 5.00 119 80-120

Duplicate (BGL0262-DUP1)

Source: 2311598-01

Prepared: 12/07/23 Analyzed: 12/12/23

Boron 0.0353 2.00 mg/L 0.0752 72.3 20 QR-01

Matrix Spike (BGL0262-MS1)

Source: 2311598-01

Prepared: 12/07/23 Analyzed: 12/12/23

Boron 6.13 2.00 mg/L 5.00 0.0752 121 75-125

Matrix Spike Dup (BGL0262-MSD1)

Source: 2311598-01

Prepared: 12/07/23 Analyzed: 12/12/23

Boron 6.41 2.00 mg/L 5.00 0.0752 127 75-125 4.47 25 QM-07

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Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGL0295 - EPA 3050B

Blank (BGL0295-BLK1)

Prepared: 12/08/23 Analyzed: 12/14/23

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 (BGL0295-BS1)

Prepared: 12/08/23 Analyzed: 12/14/23

Arsenic	40.9	0.200	mg/kg wet	40.0		102	80-120			
Barium	41.1	0.400	"	40.0		103	80-120			
Cadmium	1.90	0.200	"	2.00		94.9	80-120			
Copper	37.4	0.400	"	40.0		93.5	80-120			
Lead	19.3	0.200	"	20.0		96.4	80-120			
Nickel	36.1	0.400	"	40.0		90.3	80-120			
Silver	1.93	0.0200	"	2.00		96.6	80-120			
Zinc	36.8	0.400	"	40.0		92.0	80-120			
Selenium	4.10	0.260	"	4.00		102	80-120			

Duplicate (BGL0295-DUP1)

Source: 2311618-02

Prepared: 12/08/23 Analyzed: 12/14/23

Arsenic	3.06	0.200	mg/kg dry	3.42		11.0	20			
Barium	115	0.400	"	126		8.90	20			
Cadmium	0.194	0.200	"	0.217		11.2	20			
Copper	6.87	0.400	"	6.86		0.0889	20			
Lead	8.40	0.200	"	8.95		6.25	20			
Nickel	6.38	0.400	"	6.24		2.13	20			
Silver	0.0577	0.0200	"	0.0638		10.0	20			
Zinc	21.2	0.400	"	21.0		0.592	20			
Selenium	ND	0.260	"	0.186		200	20			QR-01

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Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGL0295 - EPA 3050B

Matrix Spike (BGL0295-MS1)

Source: 2311618-02

Prepared: 12/08/23 Analyzed: 12/14/23

Arsenic	49.6	0.200	mg/kg dry	46.9	3.42	98.3	75-125				
Barium	163	0.400	"	46.9	126	78.4	75-125				
Cadmium	2.45	0.200	"	2.35	0.217	95.1	75-125				
Copper	30.2	0.400	"	46.9	6.86	49.8	75-125				QM-07
Lead	30.5	0.200	"	23.5	8.95	91.9	75-125				
Nickel	29.3	0.400	"	46.9	6.24	49.1	75-125				QM-07
Silver	2.25	0.0200	"	2.35	0.0638	93.1	75-125				
Zinc	44.2	0.400	"	46.9	21.0	49.4	75-125				QM-07
Selenium	4.53	0.260	"	4.69	0.186	92.5	75-125				

Matrix Spike Dup (BGL0295-MSD1)

Source: 2311618-02

Prepared: 12/08/23 Analyzed: 12/14/23

Arsenic	49.5	0.200	mg/kg dry	46.9	3.42	98.2	75-125	0.0237	25		
Barium	161	0.400	"	46.9	126	74.0	75-125	1.25	25		QM-07
Cadmium	2.43	0.200	"	2.35	0.217	94.1	75-125	0.944	25		
Copper	30.0	0.400	"	46.9	6.86	49.2	75-125	0.870	25		QM-07
Lead	30.1	0.200	"	23.5	8.95	90.1	75-125	1.43	25		
Nickel	28.9	0.400	"	46.9	6.24	48.4	75-125	1.15	25		QM-07
Silver	2.21	0.0200	"	2.35	0.0638	91.4	75-125	1.79	25		
Zinc	43.7	0.400	"	46.9	21.0	48.3	75-125	1.09	25		QM-07
Selenium	4.45	0.260	"	4.69	0.186	90.9	75-125	1.65	25		

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Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGL0217 - 3060A Mod

Blank (BGL0217-BLK1)

Prepared: 12/06/23 Analyzed: 12/07/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGL0217-BS1)

Prepared: 12/06/23 Analyzed: 12/07/23

Chromium, Hexavalent 27.2 0.30 mg/kg wet 25.0 109 80-120

Duplicate (BGL0217-DUP1)

Source: 2311581-01

Prepared: 12/06/23 Analyzed: 12/07/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGL0217-MS1)

Source: 2311581-01

Prepared: 12/06/23 Analyzed: 12/07/23

Chromium, Hexavalent 31.5 0.30 mg/kg dry 29.6 ND 106 75-125

Matrix Spike Dup (BGL0217-MSD1)

Source: 2311581-01

Prepared: 12/06/23 Analyzed: 12/07/23

Chromium, Hexavalent 30.8 0.30 mg/kg dry 29.6 ND 104 75-125 2.28 20

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Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

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

Summit Scientific

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

Batch BGL0701 - General Preparation

Blank (BGL0701-BLK1)

Prepared: 12/19/23 Analyzed: 12/27/23

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

LCS (BGL0701-BS1)

Prepared: 12/19/23 Analyzed: 12/27/23

Calcium	5.74	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.54	0.0500	"	5.00		111	70-130			
Sodium	5.47	0.0500	"	5.00		109	70-130			

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Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

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 BGL0320 - General Preparation

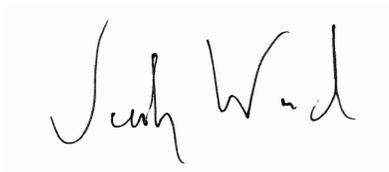
Duplicate (BGL0320-DUP1)

Source: 2311618-02

Prepared & Analyzed: 12/08/23

% Solids	84.6		%		85.2			0.684	20	
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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.



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

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

Summit Scientific

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

Batch BGL0736 - General Preparation

Blank (BGL0736-BLK1)

Prepared & Analyzed: 12/20/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL0736-BS1)

Prepared & Analyzed: 12/20/23

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

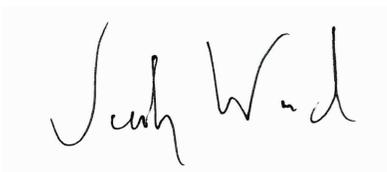
Duplicate (BGL0736-DUP1)

Source: 2311618-02

Prepared & Analyzed: 12/20/23

Specific Conductance (EC) 0.199 0.0100 mmhos/cm 0.199 0.00 20

Summit Scientific



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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

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

Summit Scientific

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

Batch BGL0737 - General Preparation

LCS (BGL0737-BS1)

Prepared & Analyzed: 12/20/23

pH	9.11	pH Units	9.18	99.2	95-105
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Duplicate (BGL0737-DUP1)

Source: 2311618-02

Prepared & Analyzed: 12/20/23

pH	8.30	pH Units	8.30	0.00	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Boulter 14-12G FAC

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
01/12/24 14:37

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations 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.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- 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