

# **BACKGROUND ASSESSMENT REPORT**

## **LILLI UNIT 6-9**

**ECMC SPILL TRACKING # 482946**

**ECMC REMEDIATION # 21456**

Prepared for:



2115 117th Avenue  
Greeley, CO 80631

Prepared by:



6855 W. 119<sup>th</sup> Ave  
Broomfield, CO 80020

## **TABLES**

**TABLE 1**  
**SOIL SAMPLE LOCATIONS**  
**NOBLE ENERGY, INC. (100322) - LILLI UNIT 6-9**



Soil Sample ID	Date	PID Reading (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude	Longitude	PDOP
SS01@0.5'	09/14/22	2.0	HC Staining	Slight HC Odor	Lab	40.678931	-103.870214	1.3
SS02@2'	09/29/22	0.0	No Staining	No Odor	Lab	40.678972	-103.870243	1.2
SS03@2'	09/29/22	0.0	No Staining	No Odor	Lab	40.678981	-103.870222	1.0
SS04@2'	09/29/22	0.0	No Staining	No Odor	Lab	40.678971	-103.870172	1.0
SS05@2'	09/29/22	0.0	No Staining	No Odor	Lab	40.678953	-103.870159	1.0
SS06@2'	09/29/22	0.0	No Staining	No Odor	Lab	40.678925	-103.870180	1.0
SS07@2'	09/29/22	0.0	No Staining	No Odor	Lab	40.678907	-103.870204	1.0
SS08@2'	09/29/22	0.0	No Staining	No Odor	Lab	40.678916	-103.870245	1.0
SS09@2'	09/29/22	0.0	No Staining	No Odor	Lab	40.678944	-103.870256	1.0
FS01@3'	09/29/22	0.0	No Staining	No Odor	Lab	40.678940	-103.870236	1.0
FS02@3'	09/29/22	0.0	No Staining	No Odor	Lab	40.678952	-103.870194	1.0
BG01@2'	05/16/23	1.2	No Staining	No Odor	Lab	40.679004	-103.870510	1.1
BG01@3'	05/16/23	0.4	No Staining	No Odor	Lab	40.679004	-103.870510	1.1
BG02@2'	05/16/23	0.8	No Staining	No Odor	Lab	40.678867	-103.870473	0.9
BG02@3'	05/16/23	1.7	No Staining	No Odor	Lab	40.678867	-103.870473	0.9
BG03@2'	05/16/23	2.1	No Staining	No Odor	Lab	40.678741	-103.870228	0.9
BG03@3'	05/16/23	0.8	No Staining	No Odor	Lab	40.678741	-103.870228	0.9
BG04@2'	05/16/23	2.1	No Staining	No Odor	Lab	40.678831	-103.869966	1.0
BG04@3'	05/16/23	0.9	No Staining	No Odor	Lab	40.678831	-103.869966	1.0
BG05@2'	05/16/23	2.2	No Staining	No Odor	Lab	40.679010	-103.869771	1.1
BG05@3'	05/16/23	2.4	No Staining	No Odor	Lab	40.679010	-103.869771	1.1

Notes:

HC = Hydrocarbon

PID = Photo-ionization detector

ppm = parts per million

PDOP = Position dilution of precision

1.) Latitude and longitude coordinates will be provided in decimal degrees with an accuracy and precision of 6 decimals of a degree using the North American Datum ("NAD") of 1983

TABLE 2  
SOIL ANALYTICAL DATA  
NOBLE ENERGY, INC. (100322) - LILLI UNIT 6-9



Soil Sample ID	Date	<sup>1</sup> 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 <sup>1,2</sup>		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 <sup>1,2,3</sup>		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
SS01@0.5'	09/14/22	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	2,000	980	<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
SS02@2'	09/29/22	<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'	09/29/22	<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
SS04@2'	09/29/22	<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
SS05@2'	09/29/22	<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
SS06@2'	09/29/22	<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
SS07@2'	09/29/22	<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
SS08@2'	09/29/22	<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
SS09@2'	09/29/22	<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@3'	09/29/22	<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
FS02@3'	09/29/22	<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

Soil Sample ID	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
SSR <sup>1,2</sup>		6 - 8.3	<6	<4mmhos/cm	2
SS01@0.5'	09/14/22	7.84	2.06	0.186	0.380
SS02@2'	09/29/22	7.71	0.539	0.512	0.187
SS03@2'	09/29/22	7.83	0.913	0.499	0.0961
SS04@2'	09/29/22	7.63	0.400	0.175	0.101
SS05@2'	09/29/22	8.10	1.25	0.212	0.0762
SS06@2'	09/29/22	7.83	3.82	0.594	0.236
SS07@2'	09/29/22	8.14	4.06	0.365	0.105
SS08@2'	09/29/22	7.98	6.09	1.41	0.0859
SS09@2'	09/29/22	8.11	2.08	0.216	0.0491
FS01@3'	09/29/22	7.93	1.02	0.252	0.0589
FS02@3'	09/29/22	8.04	0.623	0.196	0.0488
BG01@2'	05/16/23	NA	30.3	NA	NA
BG01@3'	05/16/23	NA	25.1	NA	NA
BG02@2'	05/16/23	NA	57.3	NA	NA
BG02@3'	05/16/23	NA	56.5	NA	NA
BG03@2'	05/16/23	NA	20.7	NA	NA
BG03@3'	05/16/23	NA	31.1	NA	NA
BG04@2'	05/16/23	NA	37.7	NA	NA
BG04@3'	05/16/23	NA	45.8	NA	NA
BG05@2'	05/16/23	NA	4.29	NA	NA
BG05@3'	05/16/23	NA	32.1	NA	NA
Mean Background		-	34.1	-	-
Highest Background		-	57.3	-	-

- Notes:
- Compounds referenced from 2 CCR 404-1, Table 915-1, effective January 15, 2021.
  - Soil Screening Levels (SSL) and Soil Suitability for Reclamation (SSR) standards 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.
  - Non-detect laboratory results are included in the mean calculation at the laboratory detection limit

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

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

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

1,2,4 - TMB = 1,2,4 Trimethylbenzene

1,3,5 - TMB = 1,3,5 Trimethylbenzene

Benz(a) = Benzanthrane

Benzo(b) = Benzo(a)fluoranthene

Benzo(k) = Benzo(a)fluoranthene

Benzo(a) = Benzopyrene

A,H = Dibenzoanthracene

1,2,3-CD = Indenopyrene

1-M = 1-methylnaphthalene

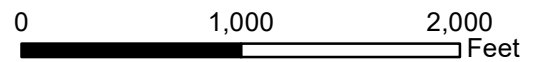
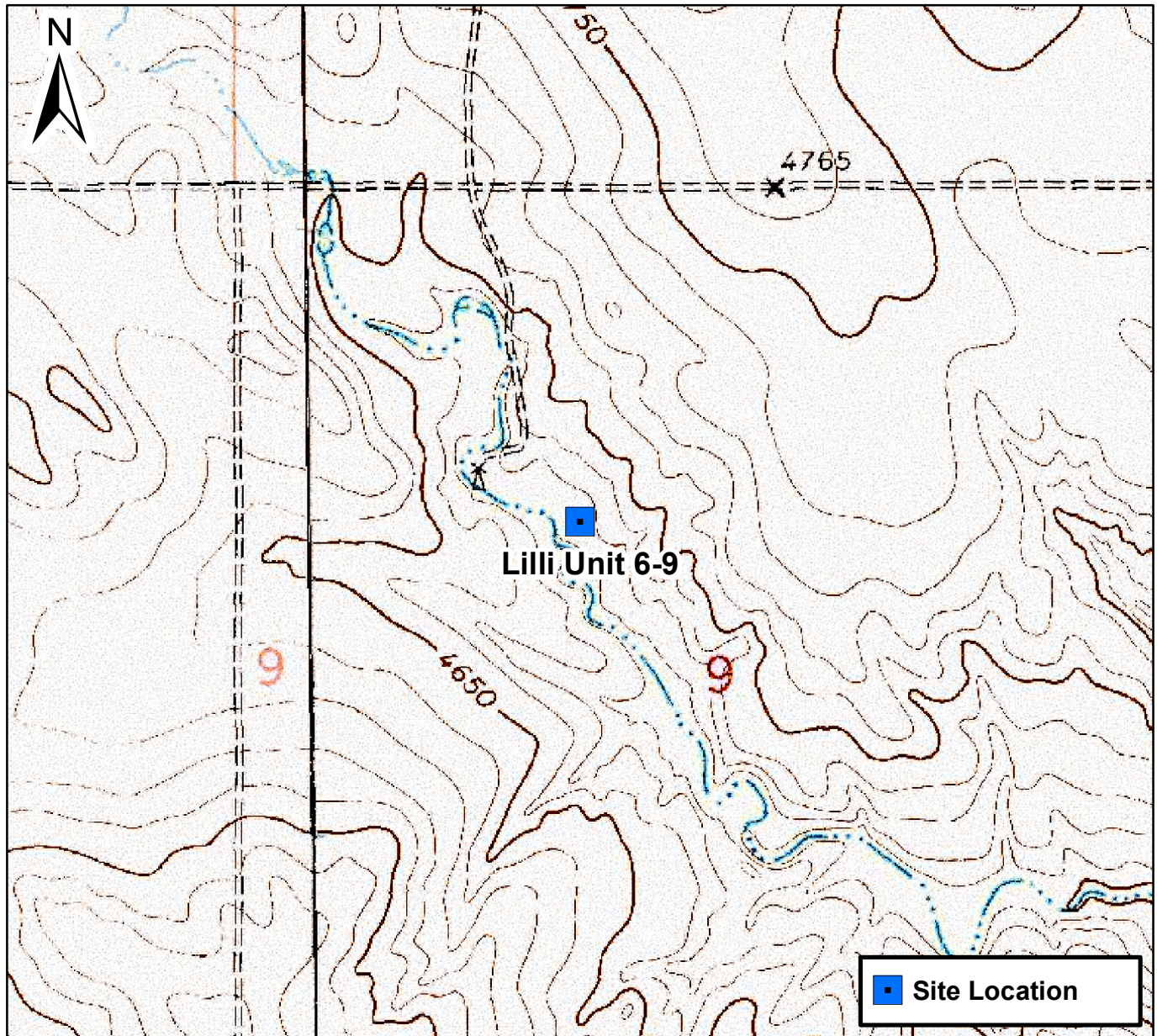
2-M = 2-methylnaphthalene

NA = Not analyzed

Soil Sample ID	Date	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 <sup>1,2</sup>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Protection of Groundwater SSL <sup>1,2,3</sup>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
SS01@0.5'	09/14/22	1.53	130	<0.243	<0.30	6.61	10.1	3.82	0.847	0.0400	19.3
SS02@2'	09/29/22	3.24	162	0.320	<0.30	9.33	16.9	5.43	1.11	0.0513	26.9
SS03@2'	09/29/22	1.71	61.5	<0.217	<0.30	3.26	4.98	1.89	0.496	<0.0217	8.28
SS04@2'	09/29/22	1.82	33.8	<0.216	<0.30	2.05	4.45	1.38	0.368	<0.0216	5.13
SS05@2'	09/29/22	2.50	27.5	<0.212	<0.30	1.81	3.50	1.02	<0.275	<0.0212	4.32
SS06@2'	09/29/22	3.64	119	<0.273	<0.30	8.40	12.6	4.52	0.973	0.0336	25.0
SS07@2'	09/29/22	2.18	37.6	<0.230	<0.30	3.09	4.28	1.58	0.591	<0.0230	5.91
SS08@2'	09/29/22	3.36	126	<0.232	<0.30	6.13	9.18	3.90	0.630	<0.0232	14.9
SS09@2'	09/29/22	1.73	53.1	<0.211	<0.30	2.33	4.22	1.44	0.281	<0.0211	6.03
FS01@3'	09/29/22	1.49	21.3	0.240	<0.30	2.74	4.79	1.38	0.340	<0.0226	6.33
FS02@3'	09/29/22	2.37	74.5	<0.236	<0.30	4.44	6.57	2.40	0.392	<0.0236	9.98
BG01@2'	05/16/23	1.23	69.6	NA	NA	NA	6.75	NA	<0.260	NA	NA
BG01@3'	05/16/23	0.638	71.9	NA	NA	NA	5.50	NA	<0.260	NA	NA
BG02@2'	05/16/23	0.773	39.7	NA	NA	NA	6.01	NA	<0.260	NA	NA
BG02@3'	05/16/23	1.18	79.3	NA	NA	NA	6.87	NA	<0.260	NA	NA
BG03@2'	05/16/23	0.553	113	NA	NA	NA	6.94	NA	0.179	NA	NA
BG03@3'	05/16/23	0.526	37.4	NA	NA	NA	5.58	NA	<0.260	NA	NA
BG04@2'	05/16/23	0.563	174	NA	NA	NA	11.9	NA	0.488	NA	NA
BG04@3'	05/16/23	0.645	190	NA	NA	NA	12.3	NA	0.317	NA	NA
BG05@2'	05/16/23	0.508	206	NA	NA	NA	8.97	NA	0.924	NA	NA
BG05@3'	05/16/23	0.385	64.3	NA	NA	NA	10.2	NA	0.498	NA	NA
Mean Background Concentration		0.700	105	-	-	-	8.10	-	0.371	-	-
Mean Background x1.25 <sup>(4)</sup>		0.875	131	-	-	-	10.1	-	0.464	-	-
Highest Background		1.23	206	-	-	-	12.3	-	0.924	-	-
Highest Background x1.25		1.54	258	-	-	-	15.4	-	1.16	-	-

## **FIGURES**



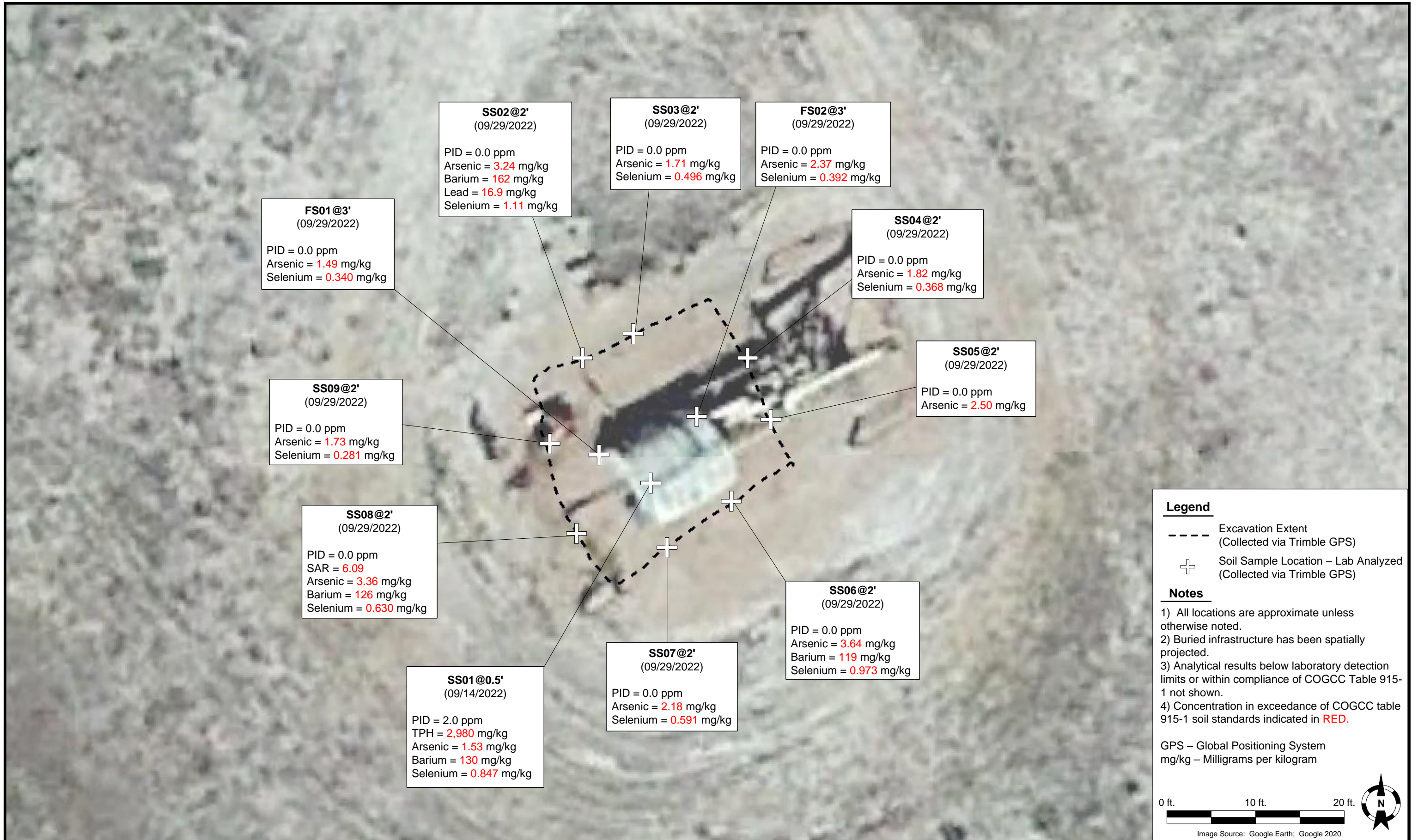


## Figure 1

Site Location Map  
Lilli Unit 6-9  
SEW S9 T8N R58W  
Weld County, Colorado













**ATTACHMENT A**  
**LABORATORY SOIL ANALYTICAL DATA REPORTS**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

May 30, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Lilli Unit 6-9

Work Order # 2305391

Enclosed are the results of analyses for samples received by Summit Scientific on 05/16/23 17:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacob Wood For Paul Shrewsbury

President



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

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG01@2'	2305391-01	Soil	05/16/23 11:40	05/16/23 17:57
BG01@3'	2305391-02	Soil	05/16/23 11:42	05/16/23 17:57
BG02@2'	2305391-03	Soil	05/16/23 11:50	05/16/23 17:57
BG02@3'	2305391-04	Soil	05/16/23 11:52	05/16/23 17:57
BG03@2'	2305391-05	Soil	05/16/23 12:00	05/16/23 17:57
BG03@3'	2305391-06	Soil	05/16/23 12:02	05/16/23 17:57
BG04@2'	2305391-07	Soil	05/16/23 12:10	05/16/23 17:57
BG04@3'	2305391-08	Soil	05/16/23 12:12	05/16/23 17:57
BG05@2'	2305391-09	Soil	05/16/23 12:20	05/16/23 17:57
BG05@3'	2305391-10	Soil	05/16/23 12:22	05/16/23 17:57



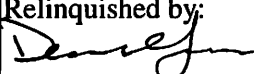
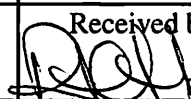
# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2305391	

Client: Noble/Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Jake Whritenour		Company: Chevron	
City/State/Zip: Broomfield/CO/ 80020		E-Mail: Jwhritenour@tasman-geo.com		Project Name/Location: Lilli Unit 6-9	
Phone: 602-881-5716		Project Name: Lilli Unit 6-9		AFE#:	
Sampler Name: Dennis Gray		Project Number:		PO/Billing Codes:	
				Contact: Dan Peterson	

					Preservative				Matrix			Analysis Requested								Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other SAR	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD	Arsenic, barium Lead, selenium	SAR, EC, pH by saturated paste	
1	B601@2'	5-16-23	1140	1			X			X		X								X		
2	B601@3'		1142																			
3	B602@2'		1150																			
4	B602@3'		1152																			
5	B603@2'		1200																			
6	B603@3'		1202																			
7	B604@2'		1210																			
8	B604@3'		1212																			
9	B605@2'		1220																			
10	B605@3'		1222																			
11																						
12																						
13																						
14																						
15																						

Relinquished by: 	Date/Time: 5-16-23 1710	Received by: Tasman Lock Box	Date/Time: 5-16-23 1710	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lock Box	Date/Time: 5/16/23 1757	Received by: 	Date/Time: 5/16/23 1757	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 9.9		Corrected Temperature: 9		IR gun #: 1		HNO3 lot #:

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2305391Client: Noble/Trasman Client Project ID: Lik unit Co-9Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) 9.9 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ICE</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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? 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)? <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.
AS  
Custodian Printed Name

5/16/23  
Date/Time



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

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

**BG01@2'**  
**2305391-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/16/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	<b>1.23</b>	0.200		mg/kg dry	1	BGE0682	05/19/23	05/23/23	EPA 6020B	
Barium	<b>69.6</b>	0.400		"	"	"	"	"	"	
Lead	<b>6.75</b>	0.200		"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

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

Date Sampled: **05/16/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	<b>327</b>	0.0575		mg/L dry	1	BGE0767	05/22/23	05/25/23	EPA 6020B	
Magnesium	<b>140</b>	0.0575		"	"	"	"	"	"	
Sodium	<b>2600</b>	0.0575		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/16/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	<b>30.3</b>	0.00100		units	1	BGE0947	05/26/23	05/26/23	Calculation	

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

Date Sampled: **05/16/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	<b>87.0</b>			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

**BG01@3'**  
**2305391-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/16/23 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>0.638</b>	0.200		mg/kg dry	1	BGE0682	05/19/23	05/23/23	EPA 6020B	
<b>Barium</b>	<b>71.9</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>5.50</b>	0.200		"	"	"	"	"	"	
<b>Selenium</b>	<b>ND</b>	0.260	0.175	"	"	"	"	"	"	

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

Date Sampled: **05/16/23 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>300</b>	0.0561		mg/L dry	1	BGE0767	05/22/23	05/25/23	EPA 6020B	
<b>Magnesium</b>	<b>97.9</b>	0.0561		"	"	"	"	"	"	
<b>Sodium</b>	<b>1960</b>	0.0561		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/16/23 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Sodium Adsorption Ratio</b>	<b>25.1</b>	0.00100		units	1	BGE0947	05/26/23	05/26/23	Calculation	

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

Date Sampled: **05/16/23 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>% Solids</b>	<b>89.2</b>			%	1	BGE0687	05/19/23	05/19/23	Calculation	

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Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

**BG02@2'**  
**2305391-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/16/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>0.773</b>	0.200		mg/kg dry	1	BGE0682	05/19/23	05/23/23	EPA 6020B	
<b>Barium</b>	<b>39.7</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>6.01</b>	0.200		"	"	"	"	"	"	
<b>Selenium</b>	<b>ND</b>	0.260	0.175	"	"	"	"	"	"	

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

Date Sampled: **05/16/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>275</b>	0.0560		mg/L dry	1	BGE0767	05/22/23	05/25/23	EPA 6020B	
<b>Magnesium</b>	<b>130</b>	0.0560		"	"	"	"	"	"	
<b>Sodium</b>	<b>4600</b>	0.0560		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/16/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Sodium Adsorption Ratio</b>	<b>57.3</b>	0.00100		units	1	BGE0947	05/26/23	05/26/23	Calculation	

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

Date Sampled: **05/16/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>% Solids</b>	<b>89.2</b>			%	1	BGE0687	05/19/23	05/19/23	Calculation	

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Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

**BG02@3'**  
**2305391-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/16/23 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>1.18</b>	0.200		mg/kg dry	1	BGE0682	05/19/23	05/23/23	EPA 6020B	
<b>Barium</b>	<b>79.3</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>6.87</b>	0.200		"	"	"	"	"	"	
<b>Selenium</b>	<b>ND</b>	0.260	0.175	"	"	"	"	"	"	

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

Date Sampled: **05/16/23 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>248</b>	0.0568		mg/L dry	1	BGE0767	05/22/23	05/25/23	EPA 6020B	
<b>Magnesium</b>	<b>111</b>	0.0568		"	"	"	"	"	"	
<b>Sodium</b>	<b>4260</b>	0.0568		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/16/23 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Sodium Adsorption Ratio</b>	<b>56.5</b>	0.00100		units	1	BGE0947	05/26/23	05/26/23	Calculation	

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

Date Sampled: **05/16/23 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>% Solids</b>	<b>88.0</b>			%	1	BGE0687	05/19/23	05/19/23	Calculation	

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Broomfield CO, 80020

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

**BG03@2'**  
**2305391-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/16/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>0.553</b>	0.200		mg/kg dry	1	BGE0682	05/19/23	05/23/23	EPA 6020B	
<b>Barium</b>	<b>113</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>6.94</b>	0.200		"	"	"	"	"	"	
<b>Selenium</b>	<b>0.179</b>	0.260	0.175	"	"	"	"	"	"	

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

Date Sampled: **05/16/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>135</b>	0.0577		mg/L dry	1	BGE0767	05/22/23	05/25/23	EPA 6020B	
<b>Magnesium</b>	<b>28.1</b>	0.0577		"	"	"	"	"	"	
<b>Sodium</b>	<b>1010</b>	0.0577		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/16/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Sodium Adsorption Ratio</b>	<b>20.7</b>	0.00100		units	1	BGE0947	05/26/23	05/26/23	Calculation	

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

Date Sampled: **05/16/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>% Solids</b>	<b>86.7</b>			%	1	BGE0687	05/19/23	05/19/23	Calculation	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

**BG03@3'**  
**2305391-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/16/23 12:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>0.526</b>	0.200		mg/kg dry	1	BGE0682	05/19/23	05/23/23	EPA 6020B	
<b>Barium</b>	<b>37.4</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>5.58</b>	0.200		"	"	"	"	"	"	
<b>Selenium</b>	<b>ND</b>	0.260	0.175	"	"	"	"	"	"	

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

Date Sampled: **05/16/23 12:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>292</b>	0.0542		mg/L dry	1	BGE0767	05/22/23	05/25/23	EPA 6020B	
<b>Magnesium</b>	<b>116</b>	0.0542		"	"	"	"	"	"	
<b>Sodium</b>	<b>2480</b>	0.0542		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/16/23 12:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Sodium Adsorption Ratio</b>	<b>31.1</b>	0.00100		units	1	BGE0947	05/26/23	05/26/23	Calculation	

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

Date Sampled: **05/16/23 12:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>% Solids</b>	<b>92.2</b>			%	1	BGE0687	05/19/23	05/19/23	Calculation	

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

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

**BG04@2'**  
**2305391-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/16/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>0.563</b>	0.200		mg/kg dry	1	BGE0682	05/19/23	05/23/23	EPA 6020B	
<b>Barium</b>	<b>174</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>11.9</b>	0.200		"	"	"	"	"	"	
<b>Selenium</b>	<b>0.488</b>	0.260	0.175	"	"	"	"	"	"	

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

Date Sampled: **05/16/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>332</b>	0.0621		mg/L dry	1	BGE0767	05/22/23	05/25/23	EPA 6020B	
<b>Magnesium</b>	<b>101</b>	0.0621		"	"	"	"	"	"	
<b>Sodium</b>	<b>3060</b>	0.0621		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/16/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Sodium Adsorption Ratio</b>	<b>37.7</b>	0.00100		units	1	BGE0947	05/26/23	05/26/23	Calculation	

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

Date Sampled: **05/16/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>% Solids</b>	<b>80.5</b>			%	1	BGE0687	05/19/23	05/19/23	Calculation	

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

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

**BG04@3'**  
**2305391-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/16/23 12:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>0.645</b>	0.200		mg/kg dry	1	BGE0682	05/19/23	05/23/23	EPA 6020B	
<b>Barium</b>	<b>190</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>12.3</b>	0.200		"	"	"	"	"	"	
<b>Selenium</b>	<b>0.317</b>	0.260	0.175	"	"	"	"	"	"	

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

Date Sampled: **05/16/23 12:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>325</b>	0.0637		mg/L dry	1	BGE0767	05/22/23	05/25/23	EPA 6020B	
<b>Magnesium</b>	<b>138</b>	0.0637		"	"	"	"	"	"	
<b>Sodium</b>	<b>3910</b>	0.0637		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/16/23 12:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Sodium Adsorption Ratio</b>	<b>45.8</b>	0.00100		units	1	BGE0947	05/26/23	05/26/23	Calculation	

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

Date Sampled: **05/16/23 12:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>% Solids</b>	<b>78.5</b>			%	1	BGE0687	05/19/23	05/19/23	Calculation	

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Tasman Geosciences  
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Broomfield CO, 80020

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

**BG05@2'**  
**2305391-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/16/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>0.508</b>	0.200		mg/kg dry	1	BGE0682	05/19/23	05/23/23	EPA 6020B	
<b>Barium</b>	<b>206</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>8.97</b>	0.200		"	"	"	"	"	"	
<b>Selenium</b>	<b>0.924</b>	0.260	0.175	"	"	"	"	"	"	

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

Date Sampled: **05/16/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>1610</b>	0.0565		mg/L dry	1	BGE0767	05/22/23	05/25/23	EPA 6020B	
<b>Magnesium</b>	<b>138</b>	0.0565		"	"	"	"	"	"	
<b>Sodium</b>	<b>668</b>	0.0565		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/16/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Sodium Adsorption Ratio</b>	<b>4.29</b>	0.00100		units	1	BGE0947	05/26/23	05/26/23	Calculation	

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

Date Sampled: **05/16/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>% Solids</b>	<b>88.4</b>			%	1	BGE0687	05/19/23	05/19/23	Calculation	

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Broomfield CO, 80020

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

**BG05@3'**  
**2305391-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/16/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Arsenic</b>	<b>0.385</b>	0.200		mg/kg dry	1	BGE0682	05/19/23	05/23/23	EPA 6020B	
<b>Barium</b>	<b>64.3</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>10.2</b>	0.200		"	"	"	"	"	"	
<b>Selenium</b>	<b>0.498</b>	0.260	0.175	"	"	"	"	"	"	

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

Date Sampled: **05/16/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Calcium</b>	<b>363</b>	0.0633		mg/L dry	1	BGE0767	05/22/23	05/25/23	EPA 6020B	
<b>Magnesium</b>	<b>139</b>	0.0633		"	"	"	"	"	"	
<b>Sodium</b>	<b>2840</b>	0.0633		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/16/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Sodium Adsorption Ratio</b>	<b>32.1</b>	0.00100		units	1	BGE0947	05/26/23	05/26/23	Calculation	

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

Date Sampled: **05/16/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>% Solids</b>	<b>79.0</b>			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Summit Scientific

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

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

### Total Metals by EPA 6020B - Quality Control

#### Summit Scientific

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

#### Batch BGE0682 - EPA 3050B

##### Blank (BGE0682-BLK1)

Prepared: 05/19/23 Analyzed: 05/23/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Lead	ND	0.200	"
Selenium	ND	0.260	"

##### LCS (BGE0682-BS1)

Prepared: 05/19/23 Analyzed: 05/23/23

Arsenic	42.7	0.200	mg/kg wet	40.0	107	80-120
Barium	37.7	0.400	"	40.0	94.2	80-120
Lead	19.1	0.200	"	20.0	95.7	80-120
Selenium	4.31	0.260	"	4.00	108	80-120

##### Duplicate (BGE0682-DUP1)

Source: 2305391-01

Prepared: 05/19/23 Analyzed: 05/23/23

Arsenic	1.16	0.200	mg/kg dry	1.23	5.39	20	QR-01
Barium	73.5	0.400	"	69.6	5.47	20	
Lead	7.24	0.200	"	6.75	6.99	20	
Selenium	0.189	0.260	"	ND	200	20	

##### Matrix Spike (BGE0682-MS1)

Source: 2305391-01

Prepared: 05/19/23 Analyzed: 05/23/23

Arsenic	11.2	0.200	mg/kg dry	46.0	1.23	21.8	75-125	QM-07
Barium	107	0.400	"	46.0	69.6	81.5	75-125	
Lead	25.4	0.200	"	23.0	6.75	81.1	75-125	
Selenium	4.35	0.260	"	4.60	ND	94.6	75-125	

##### Matrix Spike Dup (BGE0682-MSD1)

Source: 2305391-01

Prepared: 05/19/23 Analyzed: 05/23/23

Arsenic	11.2	0.200	mg/kg dry	46.0	1.23	21.7	75-125	0.353	25	QM-07
Barium	107	0.400	"	46.0	69.6	82.1	75-125	0.274	25	
Lead	26.5	0.200	"	23.0	6.75	86.0	75-125	4.34	25	
Selenium	4.68	0.260	"	4.60	ND	102	75-125	7.43	25	

Summit Scientific

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

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

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

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

**Batch BGE0767 - General Preparation**

**Blank (BGE0767-BLK1)**

Prepared: 05/22/23 Analyzed: 05/25/23

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

**LCS (BGE0767-BS1)**

Prepared: 05/22/23 Analyzed: 05/25/23

Calcium	3.58	0.0500	mg/L wet	5.00	71.6	70-130
Magnesium	5.46	0.0500	"	5.00	109	70-130
Sodium	5.46	0.0500	"	5.00	109	70-130

Summit Scientific

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

Project: Noble - Lilli Unit 6-9

Project Number: [none]

Project Manager: Jacob Whritenour

**Reported:**

05/30/23 09:48

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

#### Summit Scientific

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

#### Batch BGE0687 - General Preparation

**Duplicate (BGE0687-DUP1)**

**Source: 2305374-01**

Prepared & Analyzed: 05/19/23

% Solids	93.0	%	93.3	0.327	20
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Summit Scientific

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

Project: Noble - Lilli Unit 6-9

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/30/23 09:48

### Notes and Definitions

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