

# **FREMONT ENVIRONMENTAL INC.**

August 29, 2024

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

Subject:           **Flowline Closure Data Submittal**  
Lucci B01-20  
API # 05-123-25938  
SWNW Sec. 1, T5N, R64W  
Weld County, Colorado  
Fremont Project No. C024-050  
Remediation # 29696

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline closure activities for the Noble Energy Inc. (Noble) Lucci B01-20. Impacted soil was not encountered during abandonment activities. Details of the Lucci B01-20 flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

Please contact me at (303) 261-6246 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

**FREMONT ENVIRONMENTAL INC.**



Stanley Gilbert  
Environmental Scientist

Attachments:

Facility Closure Checklist  
Tables  
Figures  
Photos  
Laboratory Report

# Flowline Closure Checklist

## COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

<i>Additional Attachments:</i>		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
<i>Site Name &amp; COGCC Facility Number:</i> LUCCI B 1-20		<i>Date:</i> 03/05/2024		<i>Remediation Project #:</i> 29696				
<i>Associated Wells:</i> API:05-123-25938		<i>Age of Site:</i> 2007		<i>Number of Photos Attached:</i> 2				
<i>Starting point: (GPS coordinates and descriptions)</i> 40.428021, -104.502734								
<i>End point: (GPS coordinates and descriptions)</i> 40.428594, -104.503214								
<i>USCS Soil Type:</i> SP				<i>Estimated Depth to Groundwater:</i> >5'				
<i>Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i> <b>None observed</b>								
<i>Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i> <b>None observed</b>								
Flowlines								
<i>Flowline type</i>	OIL/Water/Gas							
<i>Depth</i>	3'- 5'							
<i>Age</i>	2007							
<i>Length</i>	353'							
<i>Construction Material</i>	Steel							
<i>Were flowlines pulled?</i>	No, AIP							
<i>Visual Integrity of lines</i>	N/A							
<i>Visual impacts if trenched</i>	N/A							
<i>PID Readings if trenched</i>	N/A							
<i>Sample taken? Location/Sample ID#</i>	Yes, see attached							
<i>Photo Number(s)</i>	See attached							
<i>Other observations regarding on location flowlines:</i> <b>Flowline was fully abandoned in place starting at Separator (FL01 5') to wellhead (FL02 3')</b>								
Summary								
<i>Was impacted soil identified?</i> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards								
<i>Total number of samples field screened:</i> 0				<i>Total number of samples collected:</i> 2				
<i>Highest PID Reading:</i> 2.0ppm (FL02 3')				<i>Total number of samples submitted to lab for analysis:</i> 2				
<i>If more than 10 cubic yards of impacted soil were observed:</i>								
<i>Vertical extent:</i>				<i>Estimated spill volume:</i>				
<i>Lateral extent:</i>				<i>Volume of soil removed:</i>				
<i>Is additional investigation required?</i> <b>No</b>								
<i>Was groundwater encountered during the investigation?</i> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils								
<i>Measured depth to groundwater:</i>				<i>Was remedial groundwater removal conducted?</i> Yes <input type="checkbox"/> No <input type="checkbox"/>				
<i>Date Groundwater was encountered:</i>				<i>Commencement date of removal:</i>				
<i>Sheen on groundwater?</i>		<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<i>Volume of groundwater removed prior to sampling:</i>		
<i>Free product observed?</i>		<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<i>Volume of groundwater removed post sampling:</i>		
<i>Total number of samples collected:</i>				<i>Total Volume of groundwater removed:</i>				
<i>Total number of samples submitted to lab for analysis:</i>								

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE 100322**  
**LUCCI B01-20, WELD COUNTY, COLORADO**  
**REM # 29696**

Sample ID	Sample Date	Depth	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
FL01 5'	03/04/2024	5'	40.4280193	-104.50274	-	0.9
FL02 3'	03/04/2024	3'	40.4285905	-104.50321	-	2.0
BKG01	03/04/2024	3', 4', 5'	40.4284497	-104.50342	-	0.0
BKG02	03/04/2024	3', 4', 5'	40.4286838	-104.50360	-	0.0
BKG03	03/04/2024	3', 4', 5'	40.4281605	-104.50208	-	0.0
BKG04	03/04/2024	3', 4', 5'	40.4281109	-104.49846	-	0.0
BKG05	03/04/2024	3', 4', 5'	40.4286791	-104.49854	-	0.0

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

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

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

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

  = Material excavated and transported off site for disposal.

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE 100322  
LUCCI B01-20, WELD COUNTY, COLORADO  
REM # 29696

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FL01 5'	03/04/2024	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL02 3'	03/04/2024	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)
  2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
  3. \* Indicates laboratory minimum detection limit in excess of SSL
  4. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg
- NA - Not analyzed
- = Source material characterization sample, excavated and transported off site for disposal.
- = Material excavated and transported off site for disposal.

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE 100322  
LUCCI B01-20, WELD COUNTY, COLORADO  
REM # 29696

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01 5'	03/04/2024	5'	<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
FL02 3'	03/04/2024	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

1. Bold values exceed the ECMC Table 915-1 limit(s)
  2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
  3. \* Indicates laboratory minimum detection limit in excess of SSL
- NA - Not analyzed
- = Source material characterization sample, excavated and transported off site for disposal.
- = Material excavated and transported off site for disposal.

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**LUCCI B01-20, WELD COUNTY, COLORADO**  
**REM # 29696**

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 5'	03/04/2024	5'	8.58	0.236	0.387	<2.00
FL02 3'	03/04/2024	3'	8.94	0.162	0.0111	<2.00
BKG01 3'	03/04/2024	3'	8.76	0.121	0.220	<2.00
BKG01 4'	03/04/2024	4'	8.70	0.143	0.627	<2.00
BKG01 5'	03/04/2024	5'	8.51	0.177	0.585	<2.00
BKG02 3'	03/04/2024	3'	8.57	0.150	0.245	<2.00
BKG02 4'	03/04/2024	4'	8.54	0.231	0.500	<2.00
BKG02 5'	03/04/2024	5'	8.48	0.194	0.460	<2.00

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BKG03 3'	03/04/2024	3'	<b>8.55</b>	0.149	0.0229	<2.00
BKG03 4'	03/04/2024	4'	<b>8.61</b>	0.143	0.0302	<2.00
BKG03 5'	03/04/2024	5'	<b>8.75</b>	0.133	0.0484	<2.00
BKG04 3'	03/04/2024	3'	<b>8.72</b>	0.139	0.0328	<2.00
BKG04 4'	03/04/2024	4'	<b>8.74</b>	0.114	0.0275	<2.00
BKG04 5'	03/04/2024	5'	<b>8.59</b>	<b>12.2</b>	<b>58.1</b>	<2.00
BKG05 3'	03/04/2024	3'	7.85	0.0535	0.0425	<2.00
BKG05 4'	03/04/2024	4'	7.78	0.129	0.0298	<2.00
BKG05 5'	03/04/2024	5'	8.09	0.0941	0.0618	<2.00
Maximum Root Background Concentration (0 - 3 ft)			<b>8.76</b>	0.150	0.245	<2.00
Average Root Background Concentration (0 - 3 ft)			<b>8.49</b>	0.123	0.113	<2.00
Maximum Background Concentration			<b>8.76</b>	<b>12.2</b>	<b>58.1</b>	<2.00
Average Background Concentration			<b>8.48</b>	0.945	4.07	<2.00

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

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

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

  = Material excavated and transported off site for disposal.

**TABLE 5**  
**SUMMARY OF METALS IN SOIL CHEMISTRY DATA**  
**NOBLE 100322**  
**LUCCI B01-20, WELD COUNTY, COLORADO**  
**REM # 29696**

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01 5'	03/04/2024	5'	<b>2.70</b>	54.8	0.207	<0.30	4.81	7.22	4.51	<0.260	0.0217	20.7
FL02 3'	03/04/2024	3'	<b>3.16</b>	70.2	<0.200	<0.30	3.89	7.78	3.40	<0.260	<0.0200	16.9
BKG01 3'	03/04/2024	3'	<b>1.48</b>	38.8	<0.200	<0.30	2.43	3.63	2.16	<0.260	<0.0200	10.1
BKG01 4'	03/04/2024	4'	<b>1.83</b>	52.8	<0.200	<0.30	2.24	3.85	2.39	<0.260	<0.0200	11.2
BKG01 5'	03/04/2024	5'	<b>2.82</b>	79.7	<0.200	<0.30	2.88	5.54	3.44	<0.260	0.024	14.4
BKG02 3'	03/04/2024	3'	<b>1.45</b>	41.5	<0.200	<0.30	2.38	3.87	2.09	<0.260	<0.0200	9.68
BKG02 4'	03/04/2024	4'	<b>2.14</b>	66.7	<0.200	<0.30	2.58	4.59	2.81	<0.260	<0.0200	13.2
BKG02 5'	03/04/2024	5'	<b>2.51</b>	60.9	<0.200	<0.30	2.59	5.61	3.09	<0.260	0.0266	13.0
BKG03 3'	03/04/2024	3'	<b>1.70</b>	52.2	<0.200	<0.30	1.75	3.13	2.15	<0.260	<0.0200	8.71
BKG03 4'	03/04/2024	4'	<b>2.00</b>	60.0	<0.200	<0.30	1.93	3.48	2.44	<0.260	<0.0200	9.91
BKG03 5'	03/04/2024	5'	<b>2.08</b>	79.6	<0.200	<0.30	2.18	3.61	2.56	<0.260	<0.0200	10.0
BKG04 3'	03/04/2024	3'	<b>1.62</b>	46.3	<0.200	<0.30	1.59	3.08	1.94	<0.260	<0.0200	8.38
BKG04 4'	03/04/2024	4'	<b>1.86</b>	61.7	<0.200	<0.30	1.68	4.34	2.18	<0.260	<0.0200	9.30
BKG04 5'	03/04/2024	5'	<b>4.67</b>	<b>176</b>	<b>0.404</b>	<0.30	3.30	6.82	4.11	<0.260	0.0454	15.1
BKG05 3'	03/04/2024	3'	<b>1.37</b>	30.9	<0.200	<0.30	2.33	3.60	2.36	<0.260	<0.0200	11.1
BKG05 4'	03/04/2024	4'	<b>1.29</b>	31.4	<0.200	<0.30	1.89	3.87	1.93	<0.260	<0.0200	9.76
BKG05 5'	03/04/2024	5'	<b>1.40</b>	30.4	<0.200	<0.30	2.23	3.50	2.12	<0.260	<0.0200	10.4
Maximum Root Zone Background Concentration (0 - 3 ft)			<b>1.70</b>	52.2	<0.200	<0.30	2.43	3.87	2.36	<0.260	<0.0200	11.1
125% Average Root Zone Background Concentration (0 - 3 ft)			<b>1.91</b>	52.4	<0.200	<0.30	2.62	4.33	2.68	<0.260	<0.0200	12.0
Maximum Background Concentration			<b>4.67</b>	<b>176</b>	<b>0.404</b>	<0.30	3.30	6.82	4.11	<0.260	0.0454	15.1
125% Average Background Concentration			<b>2.52</b>	75.7	0.267	<0.30	2.83	5.21	3.15	<0.260	0.0400	13.7

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

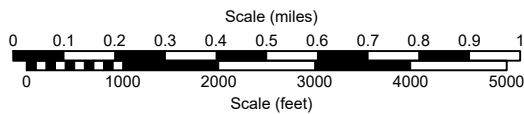
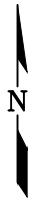
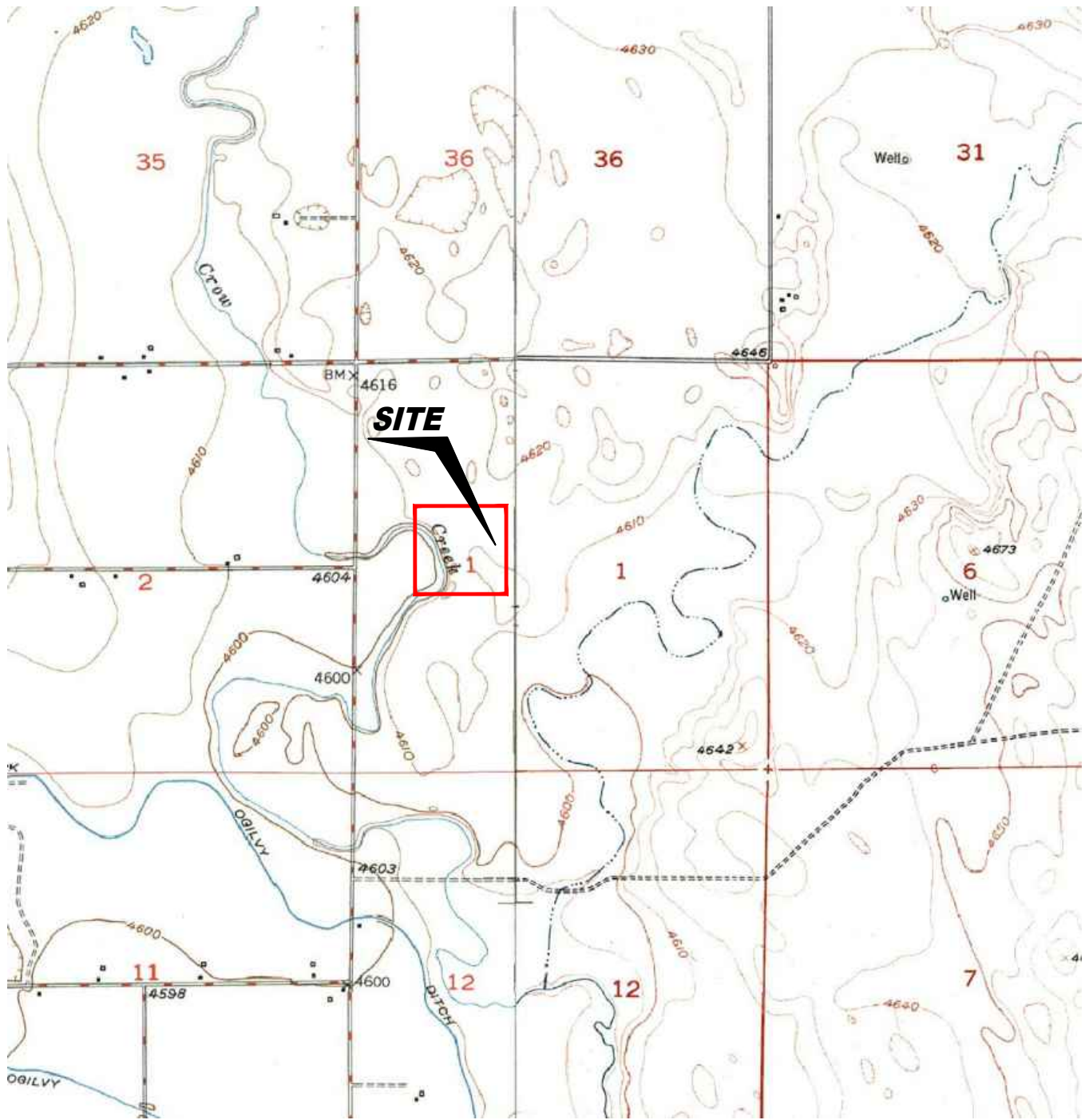
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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

= Material excavated and transported off site for disposal.



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1

**SITE LOCATION MAP**

**Noble Energy Inc. ~ Lucci B 1-20**

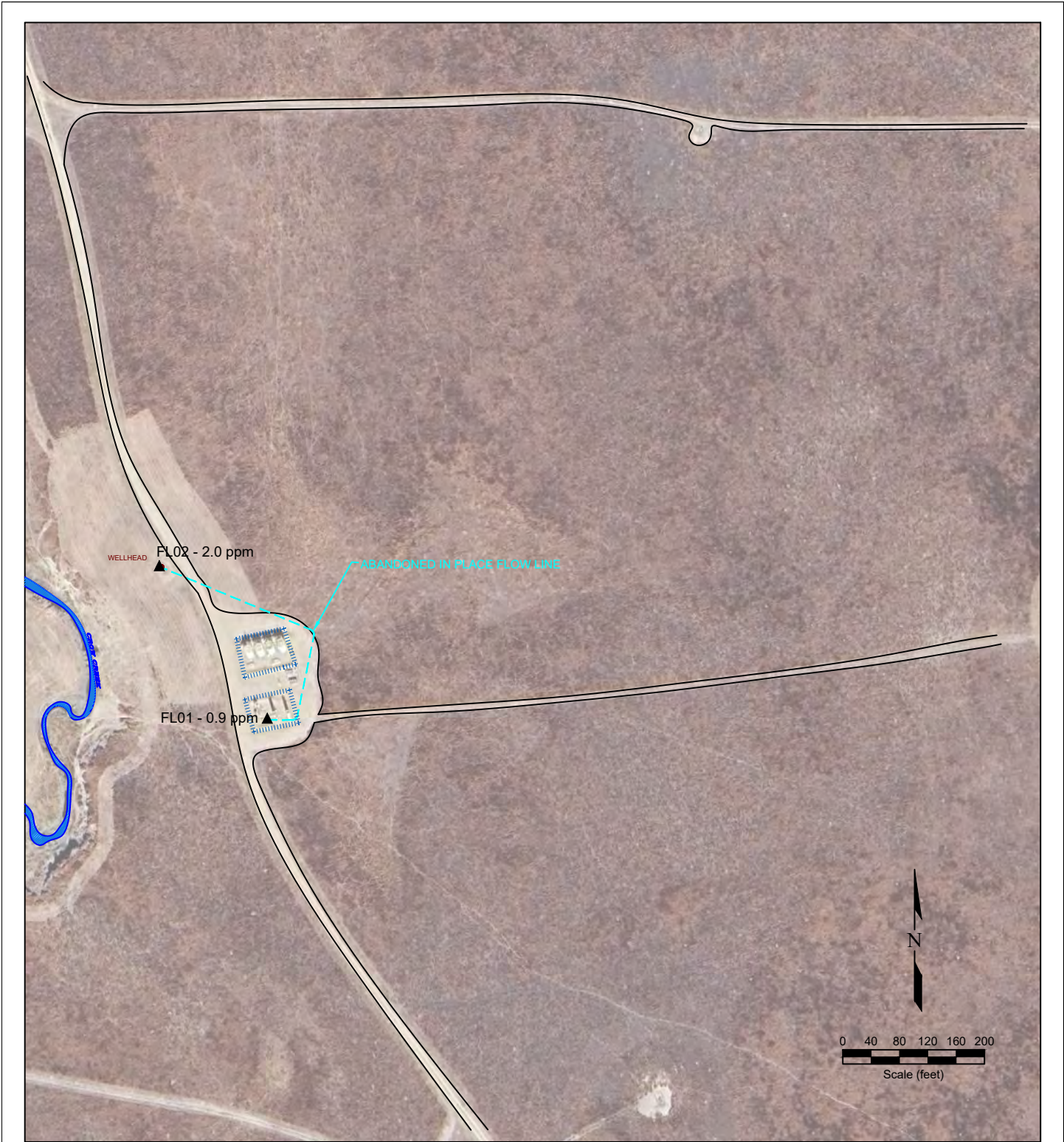
SWNW Sec. 1, T5N, R64W, 6th PM

Weld County, Colorado

40.428584°, -104.503234°

Project # <b>CO24-050</b>	API # <b>05-123-25938</b>	Facility #
Date <b>8/5/24</b>	Remediation # <b>29696</b>	Filename <b>24050T</b>





**LEGEND**

- WELL HEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER FLOW LINE
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL

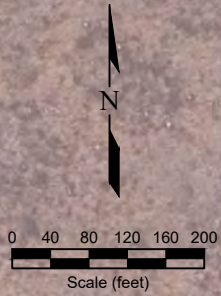
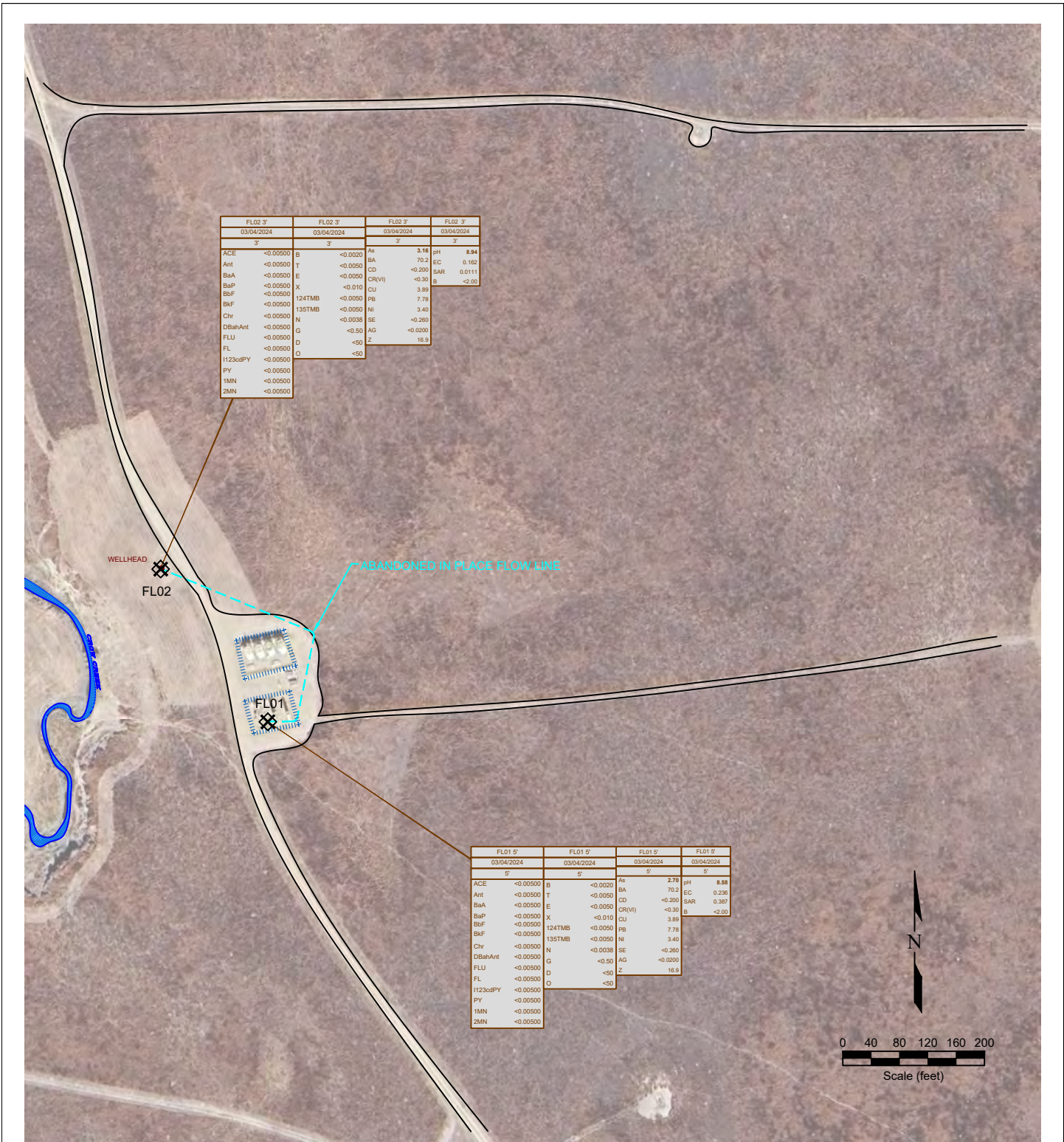
**Figure 2  
SITE MAP**

**Noble Energy Inc. ~ Lucci B 1-20**

SWNW Sec. 1, T5N, R64W, 6th PM  
Weld County, Colorado  
40.428584°, -104.503234°

Project No. <b>CO24-050</b>	API # <b>05-123-25938</b>	Facility #
Date <b>8/30/24</b>	Remediation # <b>29696</b>	Filename <b>24050Q</b>





**LEGEND**

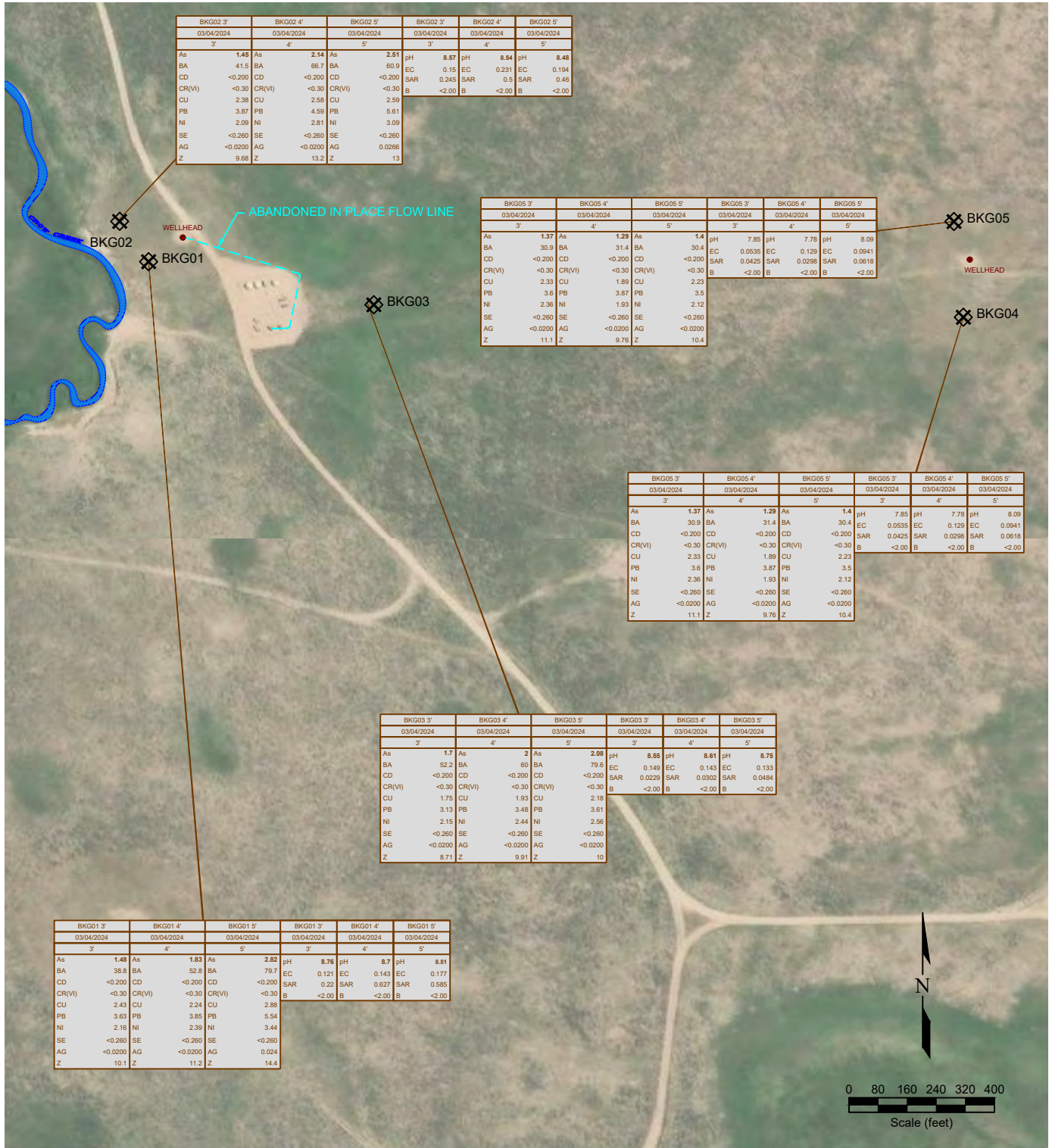
- WELL HEAD LOCATION
- ABOVE GROUND STORAGE TANK
- ⊗ SOIL SAMPLE LOCATION
- FORMER FLOW LINE
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- NOT ANALYZED

SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
DATE	DATE	DATE	DATE	DATE	DATE
DEPTH	DEPTH (ft)	DEPTH	DEPTH (ft)	DEPTH	DEPTH (ft)
ACE	<0.00500	ACENAPHTHENE (mg/kg)	As	<0.01	ARSENIC (mg/kg)
Ant	<0.00500	ANTHRACENE (mg/kg)	Ba	<0.01	BARUM (mg/kg)
BaA	<0.00500	BENZO (A) ANTHRACENE (mg/kg)	CD	<0.01	CADMIUM (mg/kg)
BaP	<0.00500	BENZO (A) PYRENE (mg/kg)	CR(VI)	<0.01	CHROMIUM (mg/kg)
BBF	<0.00500	BENZO (B) FLUORANTHENE (mg/kg)	CU	<0.01	COPPER (mg/kg)
BKF	<0.00500	BENZO (K) FLUORANTHENE (mg/kg)	NI	<0.01	NICKEL (mg/kg)
Chr	<0.00500	CHRYSENE (mg/kg)	124TMB	<0.00500	1,2,4-TRIMETHYLBENZENE (mg/kg)
DBahAnt	<0.00500	DBENZO (A,H) ANTHRACENE (mg/kg)	135TMB	<0.00500	1,3,5-TRIMETHYLBENZENE (mg/kg)
FLU	<0.00500	FLUORANTHENE (mg/kg)	N	<0.0038	NAPHTHALENE (mg/kg)
FL	<0.00500	FLUORENE (mg/kg)	G	<0.50	TPH-GRO (mg/kg)
1123cdPY	<0.00500	INDENO (1,2,3-CD) PYRENE (mg/kg)	D	<50	TPH-ORO (mg/kg)
PY	<0.00500	PYRENE (mg/kg)	O	<50	ZINC (mg/kg)
1MN	<0.00500	1-METHYLNAPHTHALENE (mg/kg)			
2MN	<0.00500	2-METHYLNAPHTHALENE (mg/kg)			

**Figure 3**  
**SOIL CHEMISTRY MAP**  
**Noble Energy Inc. ~ Lucci B 1-20**

SWNW Sec. 1, T5N, R64W, 6th PM  
 Weld County, Colorado  
 40.428584°, -104.503234°

Project No. <b>CO24-050</b>	API # <b>05-123-25938</b>	Facility #
Date <b>8/30/24</b>	Remediation # <b>29696</b>	Filename <b>24050Q</b>



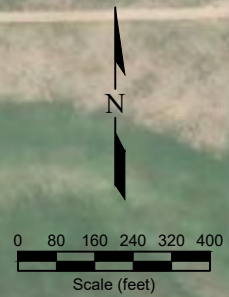
BKG02 3'		BKG02 4'		BKG02 5'		BKG02 3'		BKG02 4'		BKG02 5'	
03/04/2024		03/04/2024		03/04/2024		03/04/2024		03/04/2024		03/04/2024	
3'	4'	3'	4'	3'	4'	3'	4'	3'	4'	3'	4'
As	1.48	As	2.14	As	2.51	pH	8.57	pH	8.54	pH	8.48
BA	41.5	BA	66.7	BA	69.9	EC	0.15	EC	0.231	EC	0.194
CD	<-0.200	CD	<-0.200	CD	<-0.200	SAR	0.248	SAR	0.5	SAR	0.46
CR(VI)	<-0.30	CR(VI)	<-0.30	CR(VI)	<-0.30	B	<-2.00	B	<-2.00	B	<-2.00
CU	2.38	CU	2.58	CU	2.59						
PB	3.87	PB	4.59	PB	5.61						
NI	2.09	NI	2.81	NI	3.09						
SE	<-0.260	SE	<-0.260	SE	<-0.260						
AG	<-0.0200	AG	<-0.0200	AG	0.0206						
Z	9.68	Z	13.2	Z	13						

BKG05 3'		BKG05 4'		BKG05 5'		BKG05 3'		BKG05 4'		BKG05 5'	
03/04/2024		03/04/2024		03/04/2024		03/04/2024		03/04/2024		03/04/2024	
3'	4'	3'	4'	3'	4'	3'	4'	3'	4'	3'	4'
As	1.37	As	1.29	As	1.4	pH	7.85	pH	7.78	pH	8.09
BA	30.9	BA	31.4	BA	30.4	EC	0.0535	EC	0.129	EC	0.0941
CD	<-0.200	CD	<-0.200	CD	<-0.200	SAR	0.0425	SAR	0.0298	SAR	0.0618
CR(VI)	<-0.30	CR(VI)	<-0.30	CR(VI)	<-0.30	B	<-2.00	B	<-2.00	B	<-2.00
CU	2.33	CU	1.89	CU	2.23						
PB	3.6	PB	3.87	PB	3.5						
NI	2.36	NI	1.93	NI	2.12						
SE	<-0.260	SE	<-0.260	SE	<-0.260						
AG	<-0.0200	AG	<-0.0200	AG	<-0.0200						
Z	11.1	Z	9.76	Z	10.4						

BKG05 3'		BKG05 4'		BKG05 5'		BKG05 3'		BKG05 4'		BKG05 5'	
03/04/2024		03/04/2024		03/04/2024		03/04/2024		03/04/2024		03/04/2024	
3'	4'	3'	4'	3'	4'	3'	4'	3'	4'	3'	4'
As	1.37	As	1.29	As	1.4	pH	7.85	pH	7.78	pH	8.09
BA	30.9	BA	31.4	BA	30.4	EC	0.0535	EC	0.129	EC	0.0941
CD	<-0.200	CD	<-0.200	CD	<-0.200	SAR	0.0425	SAR	0.0298	SAR	0.0618
CR(VI)	<-0.30	CR(VI)	<-0.30	CR(VI)	<-0.30	B	<-2.00	B	<-2.00	B	<-2.00
CU	2.33	CU	1.89	CU	2.23						
PB	3.6	PB	3.87	PB	3.5						
NI	2.36	NI	1.93	NI	2.12						
SE	<-0.260	SE	<-0.260	SE	<-0.260						
AG	<-0.0200	AG	<-0.0200	AG	<-0.0200						
Z	11.1	Z	9.76	Z	10.4						

BKG03 3'		BKG03 4'		BKG03 5'		BKG03 3'		BKG03 4'		BKG03 5'	
03/04/2024		03/04/2024		03/04/2024		03/04/2024		03/04/2024		03/04/2024	
3'	4'	3'	4'	3'	4'	3'	4'	3'	4'	3'	4'
As	1.7	As	2	As	2.88	pH	8.55	pH	8.61	pH	8.75
BA	52.2	BA	60	BA	79.6	EC	0.149	EC	0.143	EC	0.133
CD	<-0.200	CD	<-0.200	CD	<-0.200	SAR	0.0229	SAR	0.0302	SAR	0.0484
CR(VI)	<-0.30	CR(VI)	<-0.30	CR(VI)	<-0.30	B	<-2.00	B	<-2.00	B	<-2.00
CU	1.75	CU	1.93	CU	2.18						
PB	3.13	PB	3.48	PB	3.61						
NI	2.15	NI	2.44	NI	2.56						
SE	<-0.260	SE	<-0.260	SE	<-0.260						
AG	<-0.0200	AG	<-0.0200	AG	<-0.0200						
Z	8.71	Z	9.91	Z	10						

BKG01 3'		BKG01 4'		BKG01 5'		BKG01 3'		BKG01 4'		BKG01 5'	
03/04/2024		03/04/2024		03/04/2024		03/04/2024		03/04/2024		03/04/2024	
3'	4'	3'	4'	3'	4'	3'	4'	3'	4'	3'	4'
As	1.48	As	1.83	As	2.82	pH	8.76	pH	8.7	pH	8.81
BA	38.8	BA	52.8	BA	79.7	EC	0.121	EC	0.143	EC	0.177
CD	<-0.200	CD	<-0.200	CD	<-0.200	SAR	0.22	SAR	0.627	SAR	0.585
CR(VI)	<-0.30	CR(VI)	<-0.30	CR(VI)	<-0.30	B	<-2.00	B	<-2.00	B	<-2.00
CU	2.43	CU	2.24	CU	2.88						
PB	3.63	PB	3.85	PB	5.54						
NI	2.16	NI	2.39	NI	3.44						
SE	<-0.260	SE	<-0.260	SE	<-0.260						
AG	<-0.0200	AG	<-0.0200	AG	0.024						
Z	10.1	Z	11.2	Z	14.4						



**LEGEND**

- WELL HEAD LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FLOW LINE
- FORMER FACILITY
- CONTAMINATION BERM
- CONTAMINATION WALL
- NS NOT ANALYZED

SAMPLE	SAMPLE ID	DATE	DATE SAMPLED	DEPTH (ft)	DEPTH (ft)
As	<-0.01	As	<-0.01	pH	<-0.01
BA	<-0.01	BA	<-0.01	EC	<-0.01
CD	<-0.01	CD	<-0.01	SAR	<-0.01
CR(VI)	<-0.01	CR(VI)	<-0.01	B	<-0.01
CU	<-0.01	CU	<-0.01		
PB	<-0.01	PB	<-0.01		
NI	<-0.01	NI	<-0.01		
SE	<-0.01	SE	<-0.01		
AG	<-0.01	AG	<-0.01		
Z	<-0.01	Z	<-0.01		

**Figure 4**  
**BACKGROUND SAMPLE SOIL CHEMISTRY MAP**  
**Noble Energy Inc. ~ Lucci B 1-20**  
 SWNW Sec. 1, T5N, R64W, 6th PM  
 Weld County, Colorado  
 40.428584°, -104.503234°

Project No. <b>CO24-050</b>	API # <b>05-123-25938</b>	Facility #
Date <b>8/30/24</b>	Remediation # <b>29696</b>	Filename <b>24050QBKG</b>



***Description:***

#1-FL01 5'- Start of abandonment at separator, no visual staining or odor



***Description:***

#2-FL02 3'-End of abandonment at wellhead no visual staining or odor

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 26, 2024

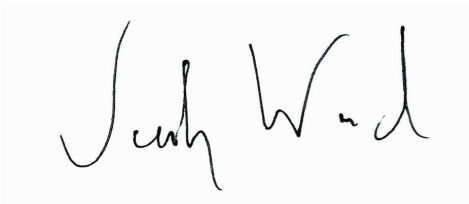
Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Lucci B01-20

Work Order #2403047

Enclosed are the results of analyses for samples received by Summit Scientific on 03/04/24 16:30. 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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 5'	2403047-01	Soil	03/04/24 12:50	03/04/24 16:30
FL02 3'	2403047-02	Soil	03/04/24 12:55	03/04/24 16:30

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
2403047	

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan	Send Invoice To: Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip:			AFE#:
Phone: 303-261-6246	Project Name: Lucci 801-20		PO/Billing Codes: UWRWE-A2067-ABN
Sampler Name: Stanley Gilbert		Project Number:	Contact: Mike Montoya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil		Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	
1	FLO 15'	3/4/24	12:50	2			X			X		X	X	X	X	X			
2	FLO 2 3'	3/4/24	12:55	2			X			X		X	X	X	X	X			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 3/4/24 14:50	Received by: Summit West	Date/Time: 3/4/24 14:50	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time: 3/4/24 14:50	Received by:	Date/Time: 3/4/24 14:50	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 12.7	Corrected Temperature: 8	IR gun #: )	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2403047

Client: Fremont Client Project ID: Lucci B01-20

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

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

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <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"/>	on ice
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
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  
3/4/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**FL01 5'**  
**2403047-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0082	03/05/24	03/06/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0458	114 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	96.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0084	03/05/24	03/07/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.96	63.7 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**FL01 5'**  
**2403047-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0080	03/05/24	03/07/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0270	80.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0186	55.9 %	40-150		"	"	"	"	

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

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0446	03/15/24	03/21/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 12:50**

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**FL01 5'**  
**2403047-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.70	0.200	mg/kg dry	1	BHC0573	03/16/24	03/22/24	EPA 6020B
Barium	54.8	0.400	"	"	"	"	"	"
Cadmium	0.207	0.200	"	"	"	"	"	"
Copper	4.81	0.400	"	"	"	"	"	"
Lead	7.22	0.200	"	"	"	"	"	"
Nickel	4.51	0.400	"	"	"	"	"	"
Silver	0.0217	0.0200	"	"	"	"	"	"
Zinc	20.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0559	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.4	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	6.67	0.0500	"	"	"	"	"	"	
Sodium	11.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.387	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 12:50**

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lucci B01-20  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:07

**FL01 5'**  
**2403047-01 (Soil)**

**Summit Scientific**

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

% Solids	70.1	%	1	BHC0416	03/14/24	03/16/24	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **03/04/24 12:50**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.236	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**FL02 3'**  
**2403047-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0082	03/05/24	03/06/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0500	125 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0378	94.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0084	03/05/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.76	70.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**FL02 3'**  
**2403047-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0080	03/05/24	03/07/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0333	100 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0241	72.4 %	40-150		"	"	"	"	

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

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0446	03/15/24	03/21/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**FL02 3'**  
**2403047-02 (Soil)**

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**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.16	0.200	mg/kg dry	1	BHC0573	03/16/24	03/22/24	EPA 6020B	
Barium	70.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.89	0.400	"	"	"	"	"	"	
Lead	7.78	0.200	"	"	"	"	"	"	
Nickel	3.40	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	16.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0559	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	520	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	43.2	0.0500	"	"	"	"	"	"	
Sodium	0.984	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0111	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

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Project: Noble - Lucci B01-20  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:07

**FL02 3'**  
**2403047-02 (Soil)**

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

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.3		%	1	BHC0416	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.162	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.94		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

### 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 BHC0082 - EPA 5030 Soil MS

##### Blank (BHC0082-BLK1)

Prepared & Analyzed: 03/05/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0480</i>		<i>"</i>	<i>0.0400</i>		<i>120</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0365</i>		<i>"</i>	<i>0.0400</i>		<i>91.4</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

##### LCS (BHC0082-BS1)

Prepared & Analyzed: 03/05/24

Benzene	0.113	0.0020	mg/kg	0.100		113	70-130			
Toluene	0.122	0.0050	"	0.100		122	70-130			
Ethylbenzene	0.118	0.0050	"	0.100		118	70-130			
m,p-Xylene	0.233	0.010	"	0.200		116	70-130			
o-Xylene	0.113	0.0050	"	0.100		113	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
Naphthalene	0.110	0.0038	"	0.100		110	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0479</i>		<i>"</i>	<i>0.0400</i>		<i>120</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>92.9</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.3</i>	<i>50-150</i>			

##### Matrix Spike (BHC0082-MS1)

Source: 2403036-01

Prepared & Analyzed: 03/05/24

Benzene	0.0978	0.0020	mg/kg	0.100	ND	97.8	70-130			
Toluene	0.109	0.0050	"	0.100	ND	109	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.213	0.010	"	0.200	ND	107	70-130			
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130			
1,2,4-Trimethylbenzene	0.0983	0.0050	"	0.100	ND	98.3	70-130			
1,3,5-Trimethylbenzene	0.0994	0.0050	"	0.100	ND	99.4	70-130			
Naphthalene	0.101	0.0038	"	0.100	ND	101	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0424</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.0</i>	<i>50-150</i>			

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Project: Noble - Lucci B01-20  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:07

**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 BHC0082 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BHC0082-MSD1)</b>	<b>Source: 2403036-01</b>			<b>Prepared &amp; Analyzed: 03/05/24</b>						
Benzene	0.0982	0.0020	mg/kg	0.100	ND	98.2	70-130	0.398	30	
Toluene	0.109	0.0050	"	0.100	ND	109	70-130	0.275	30	
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130	2.79	30	
m,p-Xylene	0.220	0.010	"	0.200	ND	110	70-130	2.83	30	
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130	3.58	30	
1,2,4-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130	2.14	30	
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	1.26	30	
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130	3.38	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0465</i>		<i>"</i>	<i>0.0400</i>		<i>116</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0369</i>		<i>"</i>	<i>0.0400</i>		<i>92.3</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			

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Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**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 BHC0084 - EPA 3550A**

**Blank (BHC0084-BLK1)**

Prepared: 03/05/24 Analyzed: 03/06/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.1		"	12.5		105		30-150			

**LCS (BHC0084-BS1)**

Prepared: 03/05/24 Analyzed: 03/06/24

C10-C28 (DRO)	419	50	mg/kg	500		83.9		70-130			
Surrogate: <i>o</i> -Terphenyl	9.96		"	12.5		79.7		30-150			

**Matrix Spike (BHC0084-MS1)**

Source: 2403036-01

Prepared: 03/05/24 Analyzed: 03/06/24

C10-C28 (DRO)	341	50	mg/kg	500	14.2	65.3		70-130			QM-07
Surrogate: <i>o</i> -Terphenyl	7.90		"	12.5		63.2		30-150			

**Matrix Spike Dup (BHC0084-MSD1)**

Source: 2403036-01

Prepared: 03/05/24 Analyzed: 03/06/24

C10-C28 (DRO)	358	50	mg/kg	500	14.2	68.8		70-130	4.99	20	QM-07
Surrogate: <i>o</i> -Terphenyl	9.06		"	12.5		72.5		30-150			

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Project: Noble - Lucci B01-20  
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Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**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 BHC0080 - EPA 5030 Soil MS**

**Blank (BHC0080-BLK1)**

Prepared: 03/05/24 Analyzed: 03/07/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0286</i>		"	<i>0.0333</i>		<i>85.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0313</i>		"	<i>0.0333</i>		<i>93.8</i>	<i>40-150</i>			

**LCS (BHC0080-BS1)**

Prepared: 03/05/24 Analyzed: 03/07/24

Acenaphthene	0.0375	0.00500	mg/kg	0.0333	112	31-137
Anthracene	0.0315	0.00500	"	0.0333	94.6	30-120
Benzo (a) anthracene	0.0303	0.00500	"	0.0333	90.9	30-120
Benzo (a) pyrene	0.0331	0.00500	"	0.0333	99.4	30-120
Benzo (b) fluoranthene	0.0325	0.00500	"	0.0333	97.5	30-120
Benzo (k) fluoranthene	0.0380	0.00500	"	0.0333	114	30-120
Chrysene	0.0380	0.00500	"	0.0333	114	30-120
Dibenz (a,h) anthracene	0.0273	0.00500	"	0.0333	81.8	30-120
Fluoranthene	0.0358	0.00500	"	0.0333	107	30-120
Fluorene	0.0367	0.00500	"	0.0333	110	30-120
Indeno (1,2,3-cd) pyrene	0.0329	0.00500	"	0.0333	98.6	30-120
Pyrene	0.0380	0.00500	"	0.0333	114	35-142
1-Methylnaphthalene	0.0394	0.00500	"	0.0333	118	35-142
2-Methylnaphthalene	0.0347	0.00500	"	0.0333	104	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0297</i>		"	<i>0.0333</i>	<i>89.0</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0369</i>		"	<i>0.0333</i>	<i>111</i>	<i>40-150</i>

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Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**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 BHC0080 - EPA 5030 Soil MS**

**Matrix Spike (BHC0080-MS1)**

Source: 2403045-01

Prepared: 03/05/24 Analyzed: 03/07/24

Acenaphthene	0.0137	0.00500	mg/kg	0.0333	ND	41.1	31-137			
Anthracene	0.0110	0.00500	"	0.0333	ND	33.1	30-120			
Benzo (a) anthracene	0.0128	0.00500	"	0.0333	ND	38.5	30-120			
Benzo (a) pyrene	0.0123	0.00500	"	0.0333	ND	36.8	30-120			
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0	30-120			
Benzo (k) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.1	30-120			
Chrysene	0.0176	0.00500	"	0.0333	ND	52.8	30-120			
Dibenz (a,h) anthracene	0.0107	0.00500	"	0.0333	ND	32.2	30-120			
Fluoranthene	0.0155	0.00500	"	0.0333	ND	46.5	30-120			
Fluorene	0.0133	0.00500	"	0.0333	ND	40.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0110	0.00500	"	0.0333	ND	32.9	30-120			
Pyrene	0.0177	0.00500	"	0.0333	ND	53.0	35-142			
1-Methylnaphthalene	0.0124	0.00500	"	0.0333	ND	37.2	15-130			
2-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.2	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		48.0	40-150			
Surrogate: Fluoranthene-d10	0.0155		"	0.0333		46.5	40-150			

**Matrix Spike Dup (BHC0080-MSD1)**

Source: 2403045-01

Prepared: 03/05/24 Analyzed: 03/07/24

Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	64.0	31-137	43.6	30	QR-02
Anthracene	0.0162	0.00500	"	0.0333	ND	48.6	30-120	37.8	30	QR-02
Benzo (a) anthracene	0.0184	0.00500	"	0.0333	ND	55.2	30-120	35.8	30	QR-02
Benzo (a) pyrene	0.0187	0.00500	"	0.0333	ND	56.2	30-120	41.7	30	QR-02
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	18.1	30	
Benzo (k) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.5	30-120	36.5	30	QR-02
Chrysene	0.0233	0.00500	"	0.0333	ND	69.8	30-120	27.8	30	
Dibenz (a,h) anthracene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	37.5	30	QR-02
Fluoranthene	0.0231	0.00500	"	0.0333	ND	69.4	30-120	39.6	30	QR-02
Fluorene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	41.6	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0179	0.00500	"	0.0333	ND	53.6	30-120	47.8	30	QR-02
Pyrene	0.0232	0.00500	"	0.0333	ND	69.5	35-142	27.0	30	
1-Methylnaphthalene	0.0216	0.00500	"	0.0333	ND	64.7	15-130	54.0	50	QR-02
2-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.3	15-130	19.8	50	
Surrogate: 2-Methylnaphthalene-d10	0.0220		"	0.0333		66.1	40-150			
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.5	40-150			

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Project: Noble - Lucci B01-20  
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 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:07

**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 BHC0446 - EPA 3050B**

**Blank (BHC0446-BLK1)**

Prepared: 03/15/24 Analyzed: 03/21/24

Boron ND 2.00 mg/L

**LCS (BHC0446-BS1)**

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 4.70 2.00 mg/L 5.00 94.0 80-120

**Duplicate (BHC0446-DUP1)**

**Source: 2403033-01**

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 0.175 2.00 mg/L 0.195 10.5 20

**Matrix Spike (BHC0446-MS1)**

**Source: 2403033-01**

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 4.37 2.00 mg/L 5.00 0.195 83.5 75-125

**Matrix Spike Dup (BHC0446-MSD1)**

**Source: 2403033-01**

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 4.57 2.00 mg/L 5.00 0.195 87.5 75-125 4.53 25

Summit Scientific

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



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

**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 BHC0573 - EPA 3050B**

**Blank (BHC0573-BLK1)**

Prepared: 03/16/24 Analyzed: 03/22/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BHC0573-BS1)**

Prepared: 03/16/24 Analyzed: 03/22/24

Arsenic	37.5	0.200	mg/kg wet	40.0	93.6	80-120
Barium	37.8	0.400	"	40.0	94.5	80-120
Cadmium	2.00	0.200	"	2.00	100	80-120
Copper	45.3	0.400	"	40.0	113	80-120
Lead	19.7	0.200	"	20.0	98.4	80-120
Nickel	44.6	0.400	"	40.0	111	80-120
Silver	2.00	0.0200	"	2.00	100	80-120
Zinc	45.2	0.400	"	40.0	113	80-120
Selenium	3.87	0.260	"	4.00	96.7	80-120

**Duplicate (BHC0573-DUP1)**

Source: 2403028-01

Prepared: 03/16/24 Analyzed: 03/22/24

Arsenic	1.39	0.200	mg/kg dry	1.47	5.14	20
Barium	45.8	0.400	"	44.1	3.72	20
Cadmium	0.0915	0.200	"	0.0842	8.27	20
Copper	3.09	0.400	"	2.87	7.60	20
Lead	4.60	0.200	"	4.04	12.9	20
Nickel	3.10	0.400	"	3.06	1.28	20
Silver	0.0111	0.0200	"	0.00983	12.2	20
Zinc	13.4	0.400	"	13.0	2.73	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lucci B01-20  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:07

**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 BHC0573 - EPA 3050B**

**Matrix Spike (BHC0573-MS1)**

Source: 2403028-01

Prepared: 03/16/24 Analyzed: 03/22/24

Arsenic	40.7	0.200	mg/kg dry	42.7	1.47	91.7	75-125			
Barium	80.4	0.400	"	42.7	44.1	84.8	75-125			
Cadmium	2.24	0.200	"	2.14	0.0842	101	75-125			
Copper	38.5	0.400	"	42.7	2.87	83.5	75-125			
Lead	23.6	0.200	"	21.4	4.04	91.3	75-125			
Nickel	38.3	0.400	"	42.7	3.06	82.5	75-125			
Silver	2.09	0.0200	"	2.14	0.00983	97.2	75-125			
Zinc	49.0	0.400	"	42.7	13.0	84.3	75-125			
Selenium	4.27	0.260	"	4.27	ND	99.9	75-125			

**Matrix Spike Dup (BHC0573-MSD1)**

Source: 2403028-01

Prepared: 03/16/24 Analyzed: 03/22/24

Arsenic	39.7	0.200	mg/kg dry	42.7	1.47	89.4	75-125	2.49	25
Barium	80.2	0.400	"	42.7	44.1	84.5	75-125	0.159	25
Cadmium	2.24	0.200	"	2.14	0.0842	101	75-125	0.324	25
Copper	37.8	0.400	"	42.7	2.87	81.8	75-125	1.91	25
Lead	23.6	0.200	"	21.4	4.04	91.6	75-125	0.286	25
Nickel	37.2	0.400	"	42.7	3.06	79.8	75-125	3.04	25
Silver	2.07	0.0200	"	2.14	0.00983	96.3	75-125	0.946	25
Zinc	47.9	0.400	"	42.7	13.0	81.6	75-125	2.34	25
Selenium	3.79	0.260	"	4.27	ND	88.7	75-125	12.0	25

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lucci B01-20  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:07

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHC0559 - 3060A Mod**

**Blank (BHC0559-BLK1)**

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHC0559-BS1)**

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

**Duplicate (BHC0559-DUP1)**

**Source: 2403046-01**

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHC0559-MS1)**

**Source: 2403046-01**

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 31.1 0.30 mg/kg dry 30.0 ND 104 75-125

**Matrix Spike Dup (BHC0559-MSD1)**

**Source: 2403046-01**

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 31.1 0.30 mg/kg dry 30.0 ND 104 75-125 0.00 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lucci B01-20  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:07

**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 BHC0644 - General Preparation**

**Blank (BHC0644-BLK1)**

Prepared: 03/18/24 Analyzed: 03/22/24

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

**LCS (BHC0644-BS1)**

Prepared: 03/18/24 Analyzed: 03/22/24

Calcium	5.65	0.0500	mg/L wet	5.00		113	70-130			
Magnesium	5.14	0.0500	"	5.00		103	70-130			
Sodium	5.11	0.0500	"	5.00		102	70-130			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lucci B01-20  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:07

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

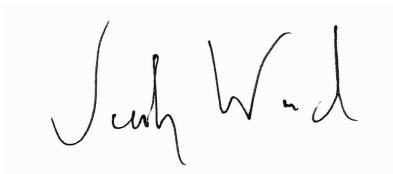
**Summit Scientific**

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

**Batch BHC0416 - General Preparation**

Duplicate (BHC0416-DUP1)	Source: 2403046-01		Prepared: 03/14/24 Analyzed: 03/16/24	
% Solids	83.0	%	83.4	0.476 20

Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lucci B01-20  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:07

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

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

**Batch BHC0646 - General Preparation**

**Blank (BHC0646-BLK1)**

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHC0646-BS1)**

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

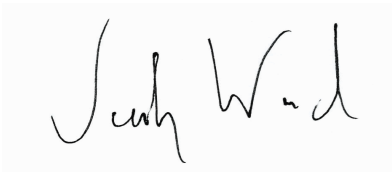
**Duplicate (BHC0646-DUP1)**

**Source: 2403046-01**

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.133 0.0100 mmhos/cm 0.132 0.377 20

Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lucci B01-20  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:07

**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 BHC0645 - General Preparation**

**LCS (BHC0645-BS1)**

Prepared: 03/18/24 Analyzed: 03/24/24

pH	9.03		pH Units	9.18		98.4	95-105			
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**Duplicate (BHC0645-DUP1)**

Source: 2403046-01

Prepared: 03/18/24 Analyzed: 03/24/24

pH	8.77		pH Units	8.79		0.228	20			
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-20  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:07

### 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.
- QM-07     The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET        Analyte DETECTED
- ND        Analyte NOT DETECTED at or above the reporting limit
- NR        Not Reported
- dry        Sample results reported on a dry weight basis
- RPD        Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 26, 2024

Paul Henchan

Fremont Environmental

PO Box 1289


Wellington, CO 80549

RE: Noble - Lucci 20,21 (BKG)

Work Order #2403048

Enclosed are the results of analyses for samples received by Summit Scientific on 03/04/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01 3'	2403048-01	Soil	03/04/24 11:25	03/04/24 16:30
BKG01 4'	2403048-02	Soil	03/04/24 11:30	03/04/24 16:30
BKG01 5'	2403048-03	Soil	03/04/24 11:35	03/04/24 16:30
BKG02 3'	2403048-04	Soil	03/04/24 11:40	03/04/24 16:30
BKG02 4'	2403048-05	Soil	03/04/24 11:45	03/04/24 16:30
BKG02 5'	2403048-06	Soil	03/04/24 11:50	03/04/24 16:30
BKG03 3'	2403048-07	Soil	03/04/24 11:55	03/04/24 16:30
BKG03 4'	2403048-08	Soil	03/04/24 12:00	03/04/24 16:30
BKG03 5'	2403048-09	Soil	03/04/24 12:05	03/04/24 16:30
BKG04 3'	2403048-10	Soil	03/04/24 12:10	03/04/24 16:30
BKG04 4'	2403048-11	Soil	03/04/24 12:15	03/04/24 16:30
BKG04 5'	2403048-12	Soil	03/04/24 12:20	03/04/24 16:30
BKG05 3'	2403048-13	Soil	03/04/24 12:25	03/04/24 16:30
BKG05 4'	2403048-14	Soil	03/04/24 12:30	03/04/24 16:30
BKG05 5'	2403048-15	Soil	03/04/24 12:35	03/04/24 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
2403048	

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: Noble	
Address:		E-Mail: Fremont Distribution List		Project Name/Location:	
City/State/Zip:		Project Name: Lucc, 20, 21 (BKG)		AFE#:	
Phone: 303-261-6246		Project Number:		PO/Billing Codes: UWRWE-A2067-ABN	
Sampler Name: Stanley Gilbert				Contact: Mike Montoya	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	BKG01 3'	3/4/24	11:25	1			X			X						X	X		
2	BKG01 4'		11:30																
3	BKG01 5'		11:35																
4	BKG02 3'		11:40																
5	BKG02 4'		11:45																
6	BKG02 5'		11:50																
7	BKG03 3'		11:55																
8	BKG03 4'		12:00																
9	BKG03 5'		12:05																
10	BKG04 3'		12:10																
11	BKG04 4'		12:15																
12	BKG04 5'		12:20																
13	BKG05 3'		12:25																
14	BKG05 4'		12:30																
15	BKG05 5'		12:35																

Relinquished by: <i>[Signature]</i>	Date/Time: 3/4/24 14:50	Received by: Summit North	Date/Time: 3/4/24 14:50	TAT Business Days	Field DO	Notes:
Relinquished by: <i>[Signature]</i>	Date/Time: 3/4/24 1630	Received by: <i>[Signature]</i>	Date/Time: 3/4/24 1630	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 12.7	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2403048

Client: Fremont

Client Project ID: Lucci 20,21 (BKG)

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

Airbill #: \_\_\_\_\_

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

12.7

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>no time stamps</u>
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

3/4/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG01 3'**  
**2403048-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Arsenic</b>	<b>1.48</b>	0.200		mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>38.8</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
<b>Copper</b>	<b>2.43</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>3.63</b>	0.200		"	"	"	"	"	"	
<b>Nickel</b>	<b>2.16</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
<b>Zinc</b>	<b>10.1</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>12.8</b>	0.0500		mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>1.88</b>	0.0500		"	"	"	"	"	"	
<b>Sodium</b>	<b>3.19</b>	0.0500		"	"	"	"	03/22/24	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG01 3'**  
**2403048-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.220	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.121	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG01 4'**  
**2403048-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.83</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>52.8</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.24</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.85</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.39</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>11.2</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>16.3</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>1.73</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>9.96</b>	0.0500	"	"	"	"	03/22/24	"	

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Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG01 4'**  
**2403048-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.627	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.9		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.143	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.70		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG01 5'**  
**2403048-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.82	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	79.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.88	0.400	"	"	"	"	"	"	
Lead	5.54	0.200	"	"	"	"	"	"	
Nickel	3.44	0.400	"	"	"	"	"	"	
Silver	0.0240	0.0200	"	"	"	"	"	"	
Zinc	14.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	26.8	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	3.76	0.0500	"	"	"	"	03/22/24	"	
Sodium	12.2	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG01 5'**  
**2403048-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.585	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.177	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG02 3'**  
**2403048-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.45</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>41.5</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.38</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.87</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.09</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>9.68</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>32.3</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>3.68</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>5.51</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG02 3'**  
**2403048-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.245	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG02 4'**  
**2403048-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>2.14</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>66.7</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.58</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>4.59</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.81</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>13.2</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>92.1</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>9.75</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>18.9</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG02 4'**  
**2403048-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.500	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.231	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG02 5'**  
**2403048-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>2.51</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>60.9</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.59</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>5.61</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>3.09</b>	0.400	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0266</b>	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>13.0</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>57.2</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>3.15</b>	0.0500	"	"	"	"	03/22/24	"	
<b>Sodium</b>	<b>13.2</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG02 5'**  
**2403048-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.460</b>	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>96.2</b>		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.194</b>	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.48</b>		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG03 3'**  
**2403048-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.70</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>52.2</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.75</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.13</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.15</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>8.71</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>69.9</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>2.08</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>0.713</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG03 3'**  
**2403048-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0229	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.3		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.149	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG03 4'**  
**2403048-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>2.00</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>60.0</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.93</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.48</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.44</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>9.91</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>71.6</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>3.52</b>	0.0500	"	"	"	"	03/22/24	"	
<b>Sodium</b>	<b>0.964</b>	0.0500	"	"	"	"	03/22/24	"	

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Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG03 4'**  
**2403048-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0302	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.9		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.143	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG03 5'**  
**2403048-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>2.08</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>79.6</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.18</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.61</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.56</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>10.0</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>116</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>2.68</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>1.93</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG03 5'**  
**2403048-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0484	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.0		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.133	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.75		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG04 3'**  
**2403048-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/22/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.62</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>46.3</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.59</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.08</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>1.94</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>8.38</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>79.4</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>2.74</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>1.09</b>	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG04 3'**  
**2403048-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0328	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.1		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.139	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG04 4'**  
**2403048-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.86</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>61.7</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.68</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>4.34</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.18</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>9.30</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>56.8</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>2.44</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>0.780</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci 20,21 (BKG)  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG04 4'**  
**2403048-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0275	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.1		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.114	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.74		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG04 5'**  
**2403048-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.67	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
Barium	176	0.400	"	"	"	"	"	"	
Cadmium	0.404	0.200	"	"	"	"	"	"	
Copper	3.30	0.400	"	"	"	"	"	"	
Lead	6.82	0.200	"	"	"	"	"	"	
Nickel	4.11	0.400	"	"	"	"	"	"	
Silver	0.0454	0.0200	"	"	"	"	"	"	
Zinc	15.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	41.4	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
Magnesium	50.8	0.0500	"	"	"	"	"	"	
Sodium	2360	0.0500	"	"	"	"	03/22/24	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)  
Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG04 5'**  
**2403048-12 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	58.1	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	12.2	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG05 3'**  
**2403048-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.37</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>30.9</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.33</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.60</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.36</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>11.1</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>104</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>21.4</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>1.82</b>	0.0500	"	"	"	"	03/22/24	"	

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Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG05 3'**  
**2403048-13 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0425	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.8		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0535	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG05 4'**  
**2403048-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.29</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>31.4</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.89</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.87</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>1.93</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>9.76</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>170</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>19.6</b>	0.0500	"	"	"	"	03/22/24	"	
<b>Sodium</b>	<b>1.54</b>	0.0500	"	"	"	"	03/22/24	"	

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Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG05 4'**  
**2403048-14 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.0298</b>	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>92.6</b>		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.129</b>	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.78</b>		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**BKG05 5'**  
**2403048-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0450	03/15/24	03/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.40</b>	0.200	mg/kg dry	1	BHC0577	03/16/24	03/23/24	EPA 6020B	
<b>Barium</b>	<b>30.4</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.23</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.50</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.12</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>10.4</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0562	03/16/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>106</b>	0.0500	mg/L dry	1	BHC0644	03/18/24	03/22/24	EPA 6020B	
<b>Magnesium</b>	<b>3.28</b>	0.0500	"	"	"	"	03/22/24	"	
<b>Sodium</b>	<b>2.37</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**BKG05 5'**  
**2403048-15 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0618	0.00100	units	1	BHC0930	03/25/24	03/25/24	Calculation	

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

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHC0417	03/14/24	03/16/24	Calculation	

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

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0941	0.0100	mmhos/cm	1	BHC0646	03/18/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BHC0645	03/18/24	03/24/24	EPA 9045D	

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

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


**Summit Scientific**

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

**Batch BHC0450 - EPA 3050B**

<b>Blank (BHC0450-BLK1)</b>				Prepared: 03/15/24 Analyzed: 03/22/24							
Boron	ND	2.00	mg/L								
<b>LCS (BHC0450-BS1)</b>				Prepared: 03/15/24 Analyzed: 03/22/24							
Boron	4.52	2.00	mg/L	5.00	90.4	80-120					
<b>Duplicate (BHC0450-DUP1)</b>				<b>Source: 2402113-13</b>		Prepared: 03/15/24 Analyzed: 03/22/24					
Boron	0.125	2.00	mg/L		0.139			11.0	20		
<b>Matrix Spike (BHC0450-MS1)</b>				<b>Source: 2402113-13</b>		Prepared: 03/15/24 Analyzed: 03/22/24					
Boron	5.02	2.00	mg/L	5.00	0.139	97.6	75-125				
<b>Matrix Spike Dup (BHC0450-MSD1)</b>				<b>Source: 2402113-13</b>		Prepared: 03/15/24 Analyzed: 03/22/24					
Boron	4.73	2.00	mg/L	5.00	0.139	91.8	75-125	5.95	25		

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

**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 BHC0577 - EPA 3050B**

**Blank (BHC0577-BLK1)**

Prepared: 03/16/24 Analyzed: 03/23/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BHC0577-BS1)**

Prepared: 03/16/24 Analyzed: 03/23/24

Arsenic	39.5	0.200	mg/kg wet	40.0	98.7	80-120
Barium	40.0	0.400	"	40.0	100	80-120
Cadmium	2.04	0.200	"	2.00	102	80-120
Copper	43.2	0.400	"	40.0	108	80-120
Lead	20.2	0.200	"	20.0	101	80-120
Nickel	42.9	0.400	"	40.0	107	80-120
Silver	2.05	0.0200	"	2.00	102	80-120
Zinc	43.4	0.400	"	40.0	109	80-120
Selenium	4.51	0.260	"	4.00	113	80-120

**Duplicate (BHC0577-DUP1)**

Source: 2403048-01

Prepared: 03/16/24 Analyzed: 03/23/24

Arsenic	1.66	0.200	mg/kg dry	1.48	11.3	20
Barium	41.1	0.400	"	38.8	5.90	20
Cadmium	0.0946	0.200	"	0.0975	2.99	20
Copper	2.32	0.400	"	2.43	4.84	20
Lead	3.39	0.200	"	3.63	6.88	20
Nickel	2.13	0.400	"	2.16	1.16	20
Silver	0.00860	0.0200	"	0.00901	4.65	20
Zinc	9.54	0.400	"	10.1	5.66	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**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 BHC0577 - EPA 3050B**

**Matrix Spike (BHC0577-MS1)**

Source: 2403048-01

Prepared: 03/16/24 Analyzed: 03/23/24

Arsenic	40.5	0.200	mg/kg dry	41.0	1.48	95.2	75-125			
Barium	71.0	0.400	"	41.0	38.8	78.6	75-125			
Cadmium	2.12	0.200	"	2.05	0.0975	98.9	75-125			
Copper	37.1	0.400	"	41.0	2.43	84.5	75-125			
Lead	23.4	0.200	"	20.5	3.63	96.5	75-125			
Nickel	36.9	0.400	"	41.0	2.16	84.9	75-125			
Silver	2.01	0.0200	"	2.05	0.00901	97.8	75-125			
Zinc	44.6	0.400	"	41.0	10.1	84.3	75-125			
Selenium	4.39	0.260	"	4.10	ND	107	75-125			

**Matrix Spike Dup (BHC0577-MSD1)**

Source: 2403048-01

Prepared: 03/16/24 Analyzed: 03/23/24

Arsenic	41.0	0.200	mg/kg dry	41.0	1.48	96.4	75-125	1.28	25
Barium	70.8	0.400	"	41.0	38.8	78.2	75-125	0.261	25
Cadmium	2.17	0.200	"	2.05	0.0975	101	75-125	2.14	25
Copper	34.7	0.400	"	41.0	2.43	78.8	75-125	6.50	25
Lead	23.2	0.200	"	20.5	3.63	95.6	75-125	0.831	25
Nickel	34.6	0.400	"	41.0	2.16	79.2	75-125	6.57	25
Silver	2.03	0.0200	"	2.05	0.00901	98.6	75-125	0.872	25
Zinc	41.6	0.400	"	41.0	10.1	77.0	75-125	6.96	25
Selenium	4.20	0.260	"	4.10	ND	103	75-125	4.40	25

Summit Scientific

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Project: Noble - Lucci 20,21 (BKG)  
 Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHC0562 - 3060A Mod**

**Blank (BHC0562-BLK1)**

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHC0562-BS1)**

Prepared: 03/16/24 Analyzed: 03/19/24

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

**Duplicate (BHC0562-DUP1)**

**Source: 2403048-01**

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHC0562-MS1)**

**Source: 2403048-01**

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 26.2 0.30 mg/kg dry 25.6 ND 102 75-125

**Matrix Spike Dup (BHC0562-MSD1)**

**Source: 2403048-01**

Prepared: 03/16/24 Analyzed: 03/19/24

Chromium, Hexavalent 26.2 0.30 mg/kg dry 25.6 ND 102 75-125 0.00 20

Summit Scientific

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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**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 BHC0644 - General Preparation**

**Blank (BHC0644-BLK1)**

Prepared: 03/18/24 Analyzed: 03/22/24

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

**LCS (BHC0644-BS1)**

Prepared: 03/18/24 Analyzed: 03/22/24

Calcium	5.65	0.0500	mg/L wet	5.00		113	70-130			
Magnesium	5.14	0.0500	"	5.00		103	70-130			
Sodium	5.11	0.0500	"	5.00		102	70-130			

Summit Scientific

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



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

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

**Summit Scientific**

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

**Batch BHC0417 - General Preparation**


**Duplicate (BHC0417-DUP1)**

**Source: 2403048-01**

Prepared: 03/14/24 Analyzed: 03/16/24

% Solids	96.9	%		97.7			0.773	20	
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Summit Scientific



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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

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

**Summit Scientific**

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

**Batch BHC0646 - General Preparation**

**Blank (BHC0646-BLK1)**

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHC0646-BS1)**

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

**Duplicate (BHC0646-DUP1)**

**Source: 2403046-01**

Prepared: 03/18/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.133 0.0100 mmhos/cm 0.132 0.377 20

Summit Scientific

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 PO Box 1289  
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Project: Noble - Lucci 20,21 (BKG)

Project Number: UWRWE-A2067-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 03/26/24 11:10

**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 BHC0645 - General Preparation**

**LCS (BHC0645-BS1)**

Prepared: 03/18/24 Analyzed: 03/24/24

pH	9.03		pH Units	9.18		98.4	95-105		
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**Duplicate (BHC0645-DUP1)**

Source: 2403046-01

Prepared: 03/18/24 Analyzed: 03/24/24

pH	8.77		pH Units	8.79		0.228	20		
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Summit Scientific

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Project Manager: Paul Henchan

**Reported:**  
03/26/24 11:10

### Notes and Definitions

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