

# **FREMONT ENVIRONMENTAL INC.**

June 26, 2022

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

Subject:     **Limited Site Assessment Report**  
          Fuego C1-19  
          NWNW Sec 1, T4N, R64W  
          Weld County, Colorado  
          Fremont Project No. C022-022  
          API 05-123-23166, Remediation #20100

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Limited Site Investigation Report for the Fuego C1-19 wellhead site in Weld County, Colorado. The enclosed report describes site investigation and sampling efforts to assess soil and groundwater quality at the site.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,  
**FREMONT ENVIRONMENTAL INC.**



Paul V. Henehan, P.E.  
Senior Consultant

Enclosure

**LIMITED SITE ASSESSMENT REPORT**

**NOBLE ENERGY INC.**

**FUEGO C1-19**

**WELD COUNTY, COLORADO**

**FREMONT PROJECT NO. C022-022**

**REMEDICATION #20100**

**Prepared by:**

**Fremont Environmental Inc.**

**1759 Redwing Lane**

**Broomfield, CO 80020**

**(303) 956-8714**

**June 26, 2022**

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# **LIMITED SITE ASSESSMENT REPORT**

**NOBLE ENERGY INC.**

**FUEGO C1-19**

**WELD COUNTY, COLORADO**

**FREMONT PROJECT NO. C022-022**

**REMEDIATION #20100**

## **1.0 INTRODUCTION**

The purpose of this document is to present site investigation data for the Fuego C1-19 wellhead site in Weld County, Colorado. Impacted soil was identified at the wellhead during facility closure. The facility closure sampling and analyses was conducted by Eagle Environmental Inc. (Eagle) on January 18, 2022 and indicated that 1,3,5 trimethylbenzene, 1-methylnaphthalene, naphthalene, and 2-methylnaphthalene exceeded the Colorado Oil and Gas Conservation Commission's (COGCC's) Table 915-1 standard for the protection of groundwater in the floor sample adjacent to the wellhead. This site investigation was intended to determine the extent of soil impacts in the immediate area of that initial sample as well as groundwater concentrations.

## **2.0 BACKGROUND INFORMATION**

### **2.1 Site Location**

The Fuego C1-19 wellhead is located approximately five miles southeast of Kersey, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.2 miles southeast of the intersection of County Road 50 and County Road 59. The location is further described as the NW  $\frac{1}{4}$  of the NW  $\frac{1}{4}$  of Section 1, Township 4N, Range 64W.

## **2.2 Site History**

The site consists of the former wellhead area of the Fuego C1-19 natural gas well. During facility closure in January 2022, Eagle collected a soil sample adjacent to the wellhead on the floor of the cut and cap excavation. The soil sample had concentrations less than their respective COGCC Table 915-1 standards except for 1-methylnaphthalene, naphthalene, 1,3,5 trimethylbenzene and 2-methylnaphthalene. Therefore, additional site investigation was required. The Eagle Environmental figures illustrating the initial round of soil sampling are provided in Appendix A.

## **3.0 SITE INVESTIGATION ACTIVITIES**

### **3.1 Soil Borings/Monitoring Wells**

A site investigation was conducted at the Fuego C1-19 wellhead site on March 25, 2022. A total of five soil borings were advanced utilizing a Geoprobe rig and were completed as stickup 1-inch diameter monitoring wells. Monitoring well MW-1 was used to determine the depth of soil impacts and to determine if groundwater was impacted. The locations of the monitoring wells are illustrated on the attached figures.

Generally, the subsurface consists of sandy silt or silty sand that extends to a depth of at least 12 feet. The maximum depth of the borings was 12 feet. Groundwater is present at the site at a depth of approximately 6.5 feet below the ground surface.

The 1-inch diameter monitoring wells were constructed with 10 feet sections of well screen that were placed at a total depth of 12 feet and completed at the ground surface as a temporary stickup wells. Soil samples from each of the borings were evaluated in the field using a photoionization detector (PID). Soil samples were collected from each of the borings and sent to Origins Laboratory, Inc. in Denver, Colorado for analyses.

The soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, 1,2,4 trimethylbenzene and 1,3,5 trimethylbenzene; Total Petroleum Hydrocarbons - Gasoline Range Organics (TPH-GRO) by EPA method 8260B, TPH - Diesel Range Organics (TPH-DRO), and Extended Range Organics (TPH-ORO) by EPA method 8015. Polycyclic aromatic hydrocarbons (PAHs) were analyzed using EPA method 8270. Further, the soil sample from MW-1, MW-2 and/or the Background sample (BG-1 3 Ft) were analyzed for Table 915-1 metals and pH, electrical conductivity, sodium absorption ratio (SAR) and boron.

Soil impacts exceeding the COGCC's Table 915-1 Protection of Groundwater soil screening limits (PGW SSLs) for petroleum constituents were not observed in any of the borings. However, arsenic, barium and selenium exceeded the PGW SSLs in the soil sample from MW-1. The background sample (BG-1 3 Ft) also exceeded the COGCC Table 915-1 standards for arsenic, barium and selenium indicating that native concentrations of these constituents are present. Further, SAR exceeded the COGCC Table 915-1 standard, though the Background sample also exceeded the SAR limit indicating this is consistent with native concentrations.

The soil chemistry is presented on Figure 3 and summarized in Tables 1, 2, 3 and 4. The laboratory's report is provided in Appendix B.

### **3.2 Groundwater Sampling and Analysis**

A groundwater sample was collected from monitoring well MW-1 on March 25, 2022. The sample was submitted to Origins Laboratory Inc. for the analyses of organic petroleum constituents benzene, toluene, ethylbenzene, and xylenes (BTEX), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and naphthalene by EPA Method 8260B. The groundwater

concentrations in monitoring well MW-1 were below their respective COGCC Table 915-1 standards.

The groundwater chemistry is shown on Figure 3 and the analytical data are summarized in Table 5. A copy of the laboratory's report is presented in Appendix B.

#### **4.0 DISCUSSION**

A site investigation was conducted at the Fuego C1-19 on March 25, 2022. Five soil borings were advanced and completed as monitoring wells to determine the extent of soil impacts and to determine if groundwater was impacted. Soil impacts above the COGCC Table 915-1 standards for petroleum constituents were not observed in any of the soil borings/monitoring wells. Concentrations of arsenic, barium and selenium were present above the PGW SSLs in monitoring well MW-1 as well as the Background sample indicating that native concentrations of these metals are elevated and can be dismissed. The SAR concentrations in MW-2 and the Background sample exceeded the COGCC Table 915-1 standard also indicating this is a result of native conditions.

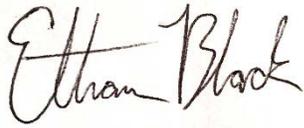
In addition, the data collected from monitoring well MW-1 indicates that the groundwater is not impacted at concentrations exceeding the COGCC Table 915-1 standards. Therefore, the Table 915-1 Residential Soil Screening Levels (RSSLs) can be utilized after four consecutive quarters of COGCC-compliant concentrations. Since the initial soil sample exceeded the PGW SSLs but not the RSSLs, that lightly impacted soil can potentially be left in place. Alternatively, the soil that was previously impacted can be excavated to a depth where the soil concentrations achieve the Table 915-1 PGW SSLs. The soil and groundwater data are presented in the attached tables and figures.

Noble is currently evaluating the remedial alternatives to achieve a no further action determination for this site.

### 5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



6/26/22

Date \_\_\_\_\_

\_\_\_\_\_  
Ethan D. Black

Geologist

Reviewed by:



6/26/22

Date \_\_\_\_\_

\_\_\_\_\_  
Paul V. Henehan, P.E.

Senior Consultant

## TABLES

**TABLE 1**  
**SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**FUEGO C1-19**  
**FREMONT PROJECT NO. C022-022**

Sample	Depth (ft)	Date Sampled	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 GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
MW-1 6 Ft	6	3/25/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.000484	<0.200	<25.0	<100
MW-2 5 Ft	5	3/25/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.000335	<0.200	<25.0	<100
MW-3 5 Ft	5	3/25/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00067	<0.200	<25.0	<100
MW-4 5 Ft	5	3/25/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00067	<0.200	<25.0	<100
MW-5 5 Ft	5	3/25/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00067	<0.200	<25.0	<100
BG-1 3 Ft	3	3/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500	500
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500*	500*	500*

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
FUEGO C1-19  
FREMONT PROJECT NO. C022-022

Sample	Depth (ft)	Date Sampled	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Benzo (a) pyrene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluor-anthene (mg/kg)	Fluorene (mg/kg)	Indeno pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Pyrene (mg/kg)
MW-1 6 Ft	6	3/25/2022	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	0.000953	0.000913	<0.00335
MW-2 5 Ft	5	3/25/2022	<0.00067	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	0.00278	<0.00335	<0.00335	<0.00335	<0.00335
MW-3 5 Ft	5	3/25/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
MW-4 5 Ft	5	3/25/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
MW-5 5 Ft	5	3/25/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000601	0.000517	<0.00067	0.000504	0.000819	<0.00067
BG-1 3 Ft	3	3/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

**TABLE 3  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
FUEGO C1-19  
FREMONT PROJECT NO. C022-022**

Sample	Depth (ft)	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium (mg/kg)
MW-1 6 Ft	6	3/25/2022	<b>5.15</b>	<b>134</b>	0.142	16.8	13.3	13	<b>0.486</b>	0.0578	57.9	<0.488
MW-2 5 Ft	5	3/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3 5 Ft	5	3/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 5 Ft	5	3/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5 5 Ft	5	3/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-1 3 Ft	3	3/25/2022	<b>2.94</b>	<b>118</b>	0.19	13	10.5	12.20	<b>0.536</b>	0.0486	53.7	<0.507
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	3100	400	1500	390	390	23000	0.3
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	46	14	26	0.26	0.8	370	0.00067

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA- Not applicable

**TABLE 4**  
**SUMMARY OF INORGANIC SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**FUEGO C1-19**  
**FREMONT PROJECT NO. C022-022**

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
MW-1 6 Ft	3/25/2022	6	NA	NA	NA	NA
MW-2 5 Ft	3/25/2022	5	3.99	7.75	<b>7.36</b>	1.16
MW-3 5 Ft	3/25/2022	5	NA	NA	NA	NA
MW-4 5 Ft	3/25/2022	5	NA	NA	NA	NA
MW-5 5 Ft	3/25/2022	5	NA	NA	NA	NA
BG-1 3 Ft	3/25/2022	3	<b>5.71</b>	7.82	<b>8.07</b>	1.78
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

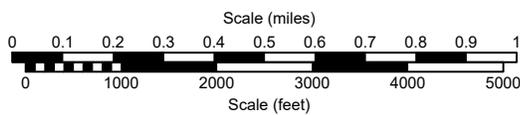
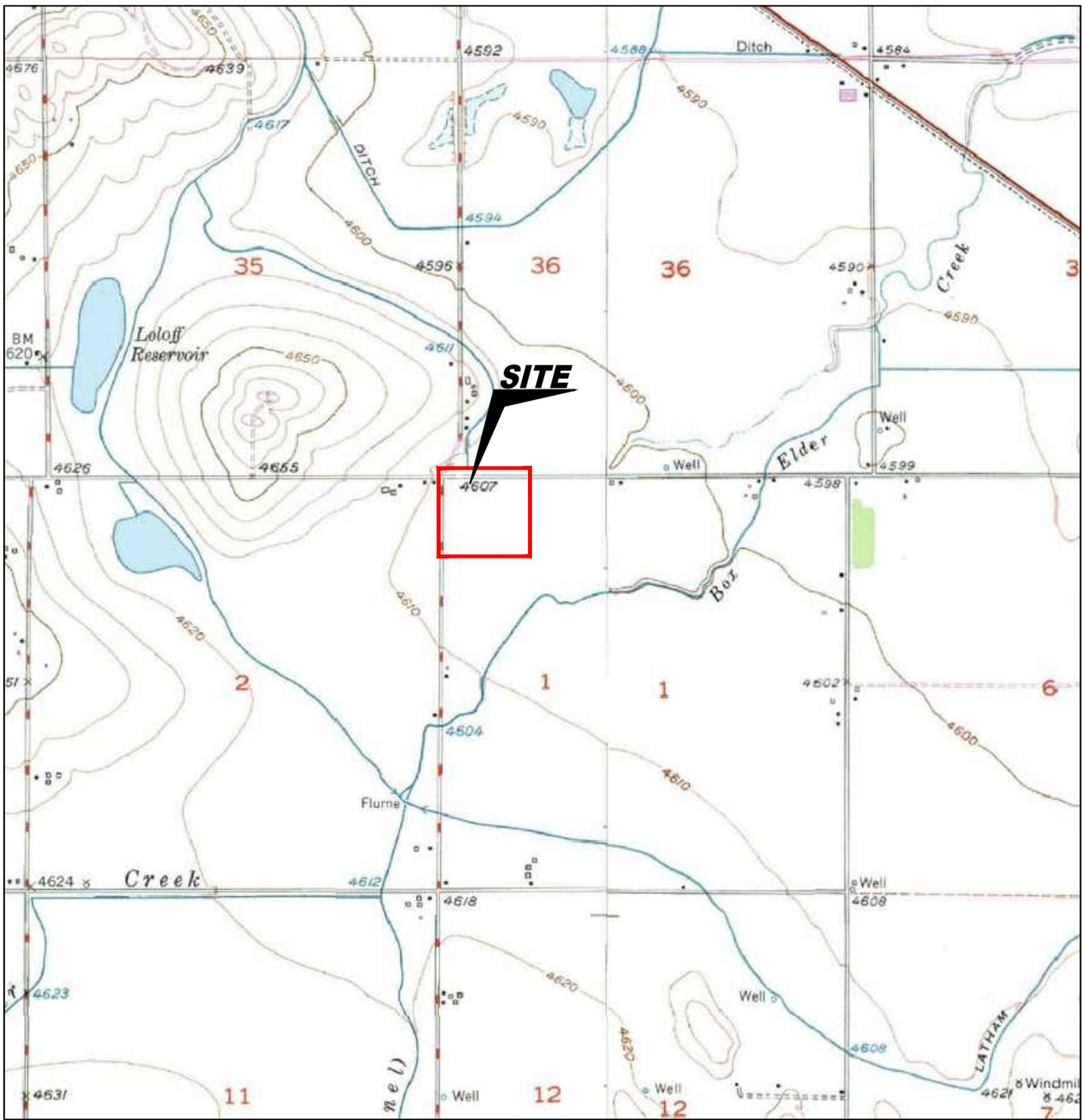
NA - Not Analyzed

**TABLE 5**  
**SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**FUEGO C1-19**  
**FREMONT PROJECT NO. C022-022**

<b>SAMPLE LOCATION</b>	<b>DATE</b>	<b>BENZENE (µg/L)</b>	<b>TOLUENE (µg/L)</b>	<b>ETHYL BENZENE (µg/L)</b>	<b>TOTAL XYLENES (µg/L)</b>	<b>NAPH- THALENE (µg/L)</b>	<b>1,2,4 TMB (µg/L)</b>	<b>1,3,5 TMB (µg/L)</b>
MW-1	03/25/22	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
Table 915-1 Limits		5	560	700	1,400	140	67	67

Bold face values exceed the COGCC limits

## FIGURES



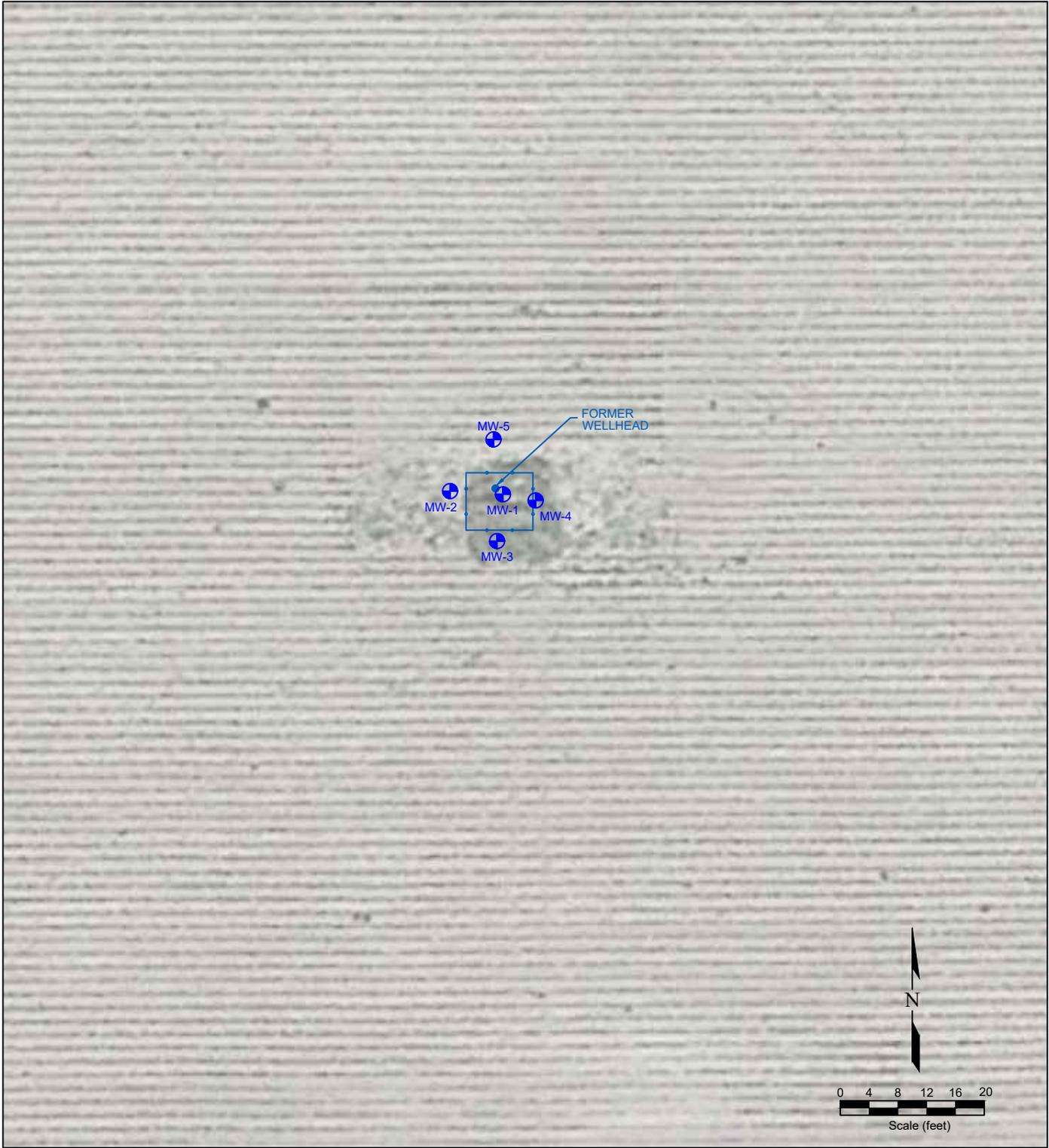
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**Noble Energy, Inc.**  
**Fuego C1-19**  
 NWNW Sec. 1, T4N, R64W, 6th PM  
 Weld County, Colorado

Project # <b>C022-022</b>	API # <b>05-123-23166</b>	Facility ID
Date <b>4/19/22</b>	Remediation # <b>20100</b>	Filename <b>22022T</b>





**LEGEND**

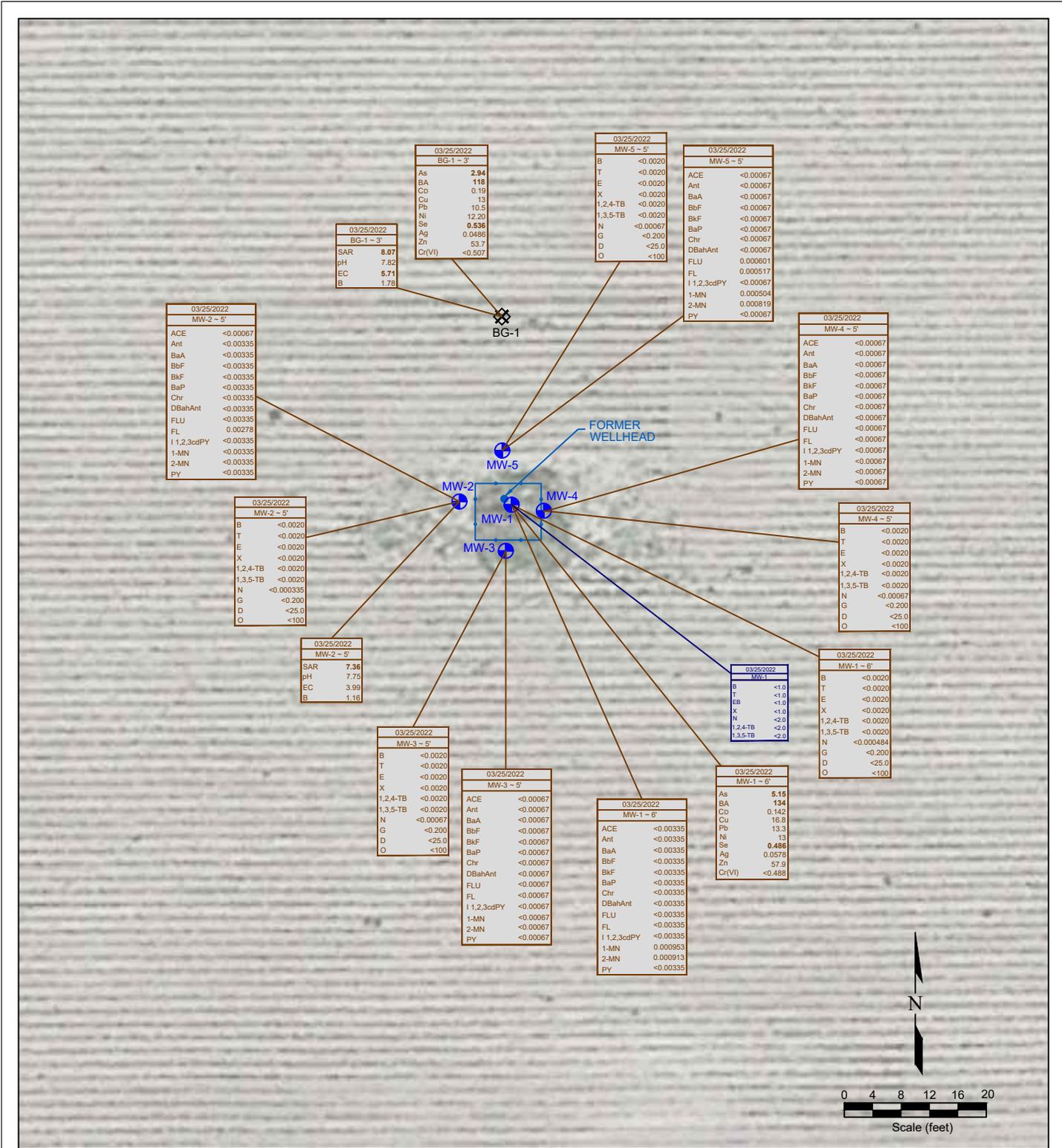
-  WELLHEAD LOCATION
-  MONITORING WELL LOCATION
-  FORMER FACILITY
-  FENCE LINE

**Figure 2  
SITE MAP**

**Noble Energy, Inc.**  
**Fuego c1-19**  
 NWNW Sec. 1, T4N, R64W, 6th PM  
 Weld County, Colorado

Project No. <b>C022-022</b>	API # <b>05-123-23166</b>	Facility #
Date <b>4/19/22</b>	Remediation # <b>20100</b>	Filename 22022Q





**LEGEND**

- WELLHEAD LOCATION
- MONITORING WELL LOCATION
- ⊗ SOIL SAMPLE LOCATION
- FORMER FACILITY
- FENCE LINE

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
03/25/2022	MW-1 - 6"	03/25/2022	MW-1 - 6"
ACE	<0.00335	B	<0.0020
Ant	<0.00335	T	<0.0020
BaA	<0.00335	E	<0.0020
BbF	<0.00335	X	<0.0020
BkF	<0.00335	1,2,4-TB	<0.0020
BaP	<0.00335	1,3,5-TB	<0.0020
Chr	<0.00335	N	<0.000335
DBahAnt	<0.00335	G	<0.200
FLU	<0.00335	D	<25.0
FL	<0.00335	O	<100
1,1,2,3cdPY	<0.00335		
1-MN	0.000913		
2-MN	0.000913		
PY	<0.00335		

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
03/25/2022	MW-2 - 5'	03/25/2022	MW-2 - 5'
B	<0.0020	ACE	<0.00067
T	<0.0020	Ant	<0.00067
E	<0.0020	BaA	<0.00067
X	<0.0020	BbF	<0.00067
1,2,4-TB	<0.0020	BkF	<0.00067
1,3,5-TB	<0.0020	BaP	<0.00067
N	<0.000335	Chr	<0.00067
G	<0.200	DBahAnt	<0.00067
D	<25.0	FLU	<0.00067
O	<100	FL	<0.00067
		1,1,2,3cdPY	<0.00067
		1-MN	<0.00067
		2-MN	<0.00067
		PY	<0.00067

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
03/25/2022	MW-3 - 5'	03/25/2022	MW-3 - 5'
B	<0.0020	ACE	<0.00067
T	<0.0020	Ant	<0.00067
E	<0.0020	BaA	<0.00067
X	<0.0020	BbF	<0.00067
1,2,4-TB	<0.0020	BkF	<0.00067
1,3,5-TB	<0.0020	BaP	<0.00067
N	<0.00067	Chr	<0.00067
G	<0.200	DBahAnt	<0.00067
D	<25.0	FLU	<0.00067
O	<100	FL	<0.00067
		1,1,2,3cdPY	<0.00067
		1-MN	<0.00067
		2-MN	<0.00067
		PY	<0.00067

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
03/25/2022	MW-4 - 5'	03/25/2022	MW-4 - 5'
B	<0.0020	ACE	<0.00067
T	<0.0020	Ant	<0.00067
E	<0.0020	BaA	<0.00067
X	<0.0020	BbF	<0.00067
1,2,4-TB	<0.0020	BkF	<0.00067
1,3,5-TB	<0.0020	BaP	<0.00067
N	<0.00067	Chr	<0.00067
G	<0.200	DBahAnt	<0.00067
D	<25.0	FLU	<0.00067
O	<100	FL	<0.00067
		1,1,2,3cdPY	<0.00067
		1-MN	<0.00067
		2-MN	<0.00067
		PY	<0.00067

DATE SAMPLED	SAMPLE ID and DEPTH (ft)	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
03/25/2022	MW-5 - 5'	03/25/2022	MW-5 - 5'
B	<0.0020	ACE	<0.00067
T	<0.0020	Ant	<0.00067
E	<0.0020	BaA	<0.00067
X	<0.0020	BbF	<0.00067
1,2,4-TB	<0.0020	BkF	<0.00067
1,3,5-TB	<0.0020	BaP	<0.00067
N	<0.00067	Chr	<0.00067
G	<0.200	DBahAnt	<0.00067
D	<25.0	FLU	<0.00067
O	<100	FL	<0.00067
		1,1,2,3cdPY	<0.00067
		1-MN	<0.00067
		2-MN	<0.00067
		PY	<0.00067

**Figure 3**  
**SOIL AND GROUNDWATER CHEMISTRY MAP**  
 March 25, 2022  
 Noble Energy, Inc.  
 Fuego c1-19  
 NWNW Sec. 1, T4N, R64W, 6th PM  
 Weld County, Colorado

Project No. <b>C022-022</b>	API # <b>05-123-23166</b>	Facility #
Date <b>4/19/22</b>	Remediation # <b>20100</b>	Filename <b>22022QQQ</b>



**APPENDIX A**

**EAGLE ENVIRONMENTAL DATA**

## Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure 2-22-22	Flowline Closure 2-23-22	Partially Buried Vault Closure 2-22-22
Site Name & COGCC Facility Number: Fuego C #1-19		Date: 1-18-22				Remediation Project #: 20100
Associated Wells: 05-123-23166		Age of Site: years				Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.345490   -104.503600					Estimated Facility Size (acres):	

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)  
Good Condition

USCS Soil Type: CL Estimated Depth to Groundwater: ~10-15'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
None observed

#### Wellhead(s)

Well API	Age	Condition of surface around wellhead	PID Readings	Condition of subsurface (containing solvent)	PID Readings	Sample taken? Location/Sample ID#	Photo Number(s)
05-123-23166	Years	Good - Per Crew	N/A - Excavated upon arrival	Good - no staining/no odor	2.6      3.8      2.2      4.8      6.1	WH-SS-01@4.5'    WH-SS-02@4.5'    WH-SS-03@4.5'    WH-SS-04@4.5'    WH-FS-01@5'	See photolog

Other observations regarding wellheads:  
Riser cut/capped following assessment

#### Summary

Was impacted soil identified?  No      Yes - less than 10 cubic yards      Yes - more than 10 cubic yards

Total number of samples field screened: 5      Total number of samples collected: 5

Highest PID Reading: 6.1      Total number of samples submitted to lab for analysis: 1

If more than 10 cubic yards of impacted soil were observed:

Vertical extent: N/A      Estimated spill volume:

Lateral extent: N/A      Volume of soil removed:

Is additional investigation required?

Was groundwater encountered during the investigation?  No      Yes - not impacted or in contact with impacted soils      Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater:      Was remedial groundwater removal conducted?      Yes      No

Date Groundwater was encountered:      Commencement date of removal:

Sheen on groundwater?      Yes      No      Volume of groundwater removed prior to sampling:

Free product observed?      Yes      No      Volume of groundwater removed post sampling:

Total number of samples collected:      Total Volume of groundwater removed:

Total number of samples submitted to lab for analysis:

## Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure 2-22-22		Wellhead Closure 1-18-22		Pit Closure —	Partially Buried Vault Closure 2-22-22
Site Name & COGCC Facility Number: Furgo C#1-19		Date: 2-23-22			Remediation Project #: 20100		
Associated Wells: 05-123-23166		Age of Site: years			Number of Photos Attached: 4		

Starting point: (GPS coordinates and descriptions) At well: 40.345490 / -104.503600

End point: (GPS coordinates and descriptions) At sep: 40.344989 / -104.505721

USCS Soil Type: CL Estimated Depth to Groundwater: ~10-15'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
Slight staining / odor at terminus (TB-SS-02 - Rem. #20094)

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
None observed

#### Flowlines

Flowline type	D, G, W			
Depth	~3'			
Age	years			
Length	~710'			
Construction Material	Steel			
Were flowlines pulled?	Partially - a portion was abandoned in place due to field constraints			
Visual Integrity of lines	Good			
Visual impacts if trenched	None			
PID Readings if trenched	73.2	2.6	3.1	10.1
Sample taken? Location/Sample ID#	TB-SS-02 @ 3'	FL-SS-01 @ 3'	FL-SS-02 @ 3'	FL-SS-03 @ 3'
Photo Number(s)	See photolog			

Other observations regarding on location flowlines:  
Terminus @ Pt. B collected during facility decomm. (TB-SS-02) associated with Remediation # 20094  
Change of direction (FL-SS-03) assessed + lab analyzed, additional cut points (FL-SS-01 + FL-SS-02) assessed

#### Summary

Was impacted soil identified?  
 No       Yes - less than 10 cubic yards       Yes - more than 10 cubic yards

Total number of samples field screened: 4      Total number of samples collected:

Highest PID Reading: 73.2      Total number of samples submitted to lab for analysis:

If more than 10 cubic yards of impacted soil were observed:

Vertical extent:      Estimated spill volume:

Lateral extent:      Volume of soil removed:

Is additional investigation required?      *N/A*

Was groundwater encountered during the investigation?  
 No      Yes - not impacted or in contact with impacted soils      Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater:      Was remedial groundwater removal conducted? Yes      No

Date Groundwater was encountered:      Commencement date of removal:

Sheen on groundwater? Yes      No      Volume of groundwater removed prior to sampling:

Free product observed? Yes      No      Volume of groundwater removed post sampling:

Total number of samples collected:      Total Volume of groundwater removed:

Total number of samples submitted to lab for analysis:



## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

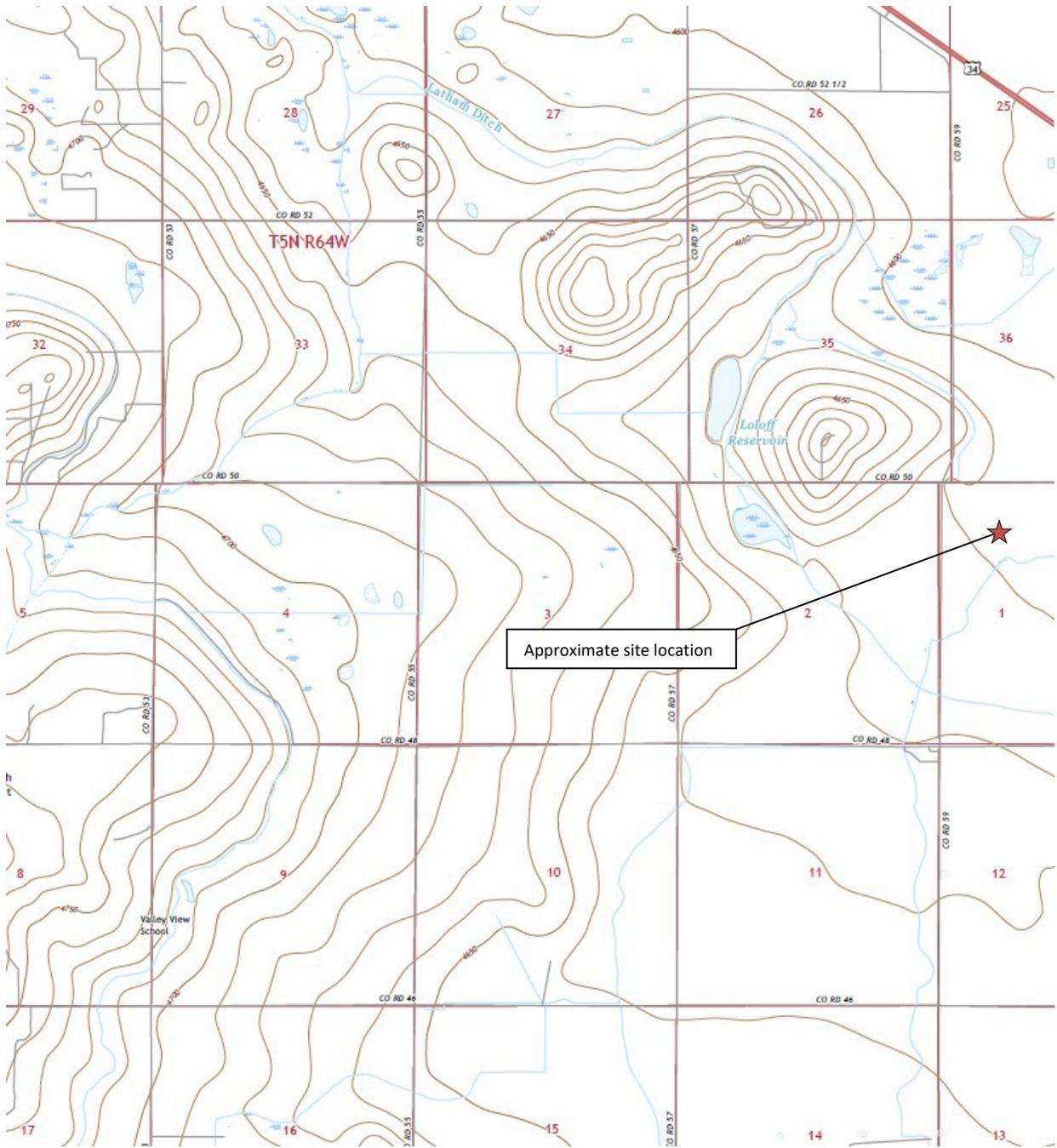
**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**

**Figure 5: Metals in Soil Map**

**Figure 6: Soil Analytical Map (Flowline Pt. B)**

**Figure 7: Polycyclic Aromatic Hydrocarbons Map (Flowline Pt. B)**



**Topographic Site Location Map**

Fuego C #1-19  
 Closure Assessment  
 40.345490 / -104.503600  
 NW 1/4 NW 1/4 SEC.1 T4N R64W 6PM  
 Weld County, Colorado  
 API # 05-123-23166  
 Remediation # 20100



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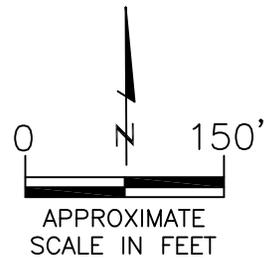
Source: USGS 7.5 Minute Topographic Map, Valley View School, CO Quadrangle 2019

**Figure 1**



**LEGEND**

- FORMER FUEGO C #1-19 WELLHEAD (PLUGGED & ABANDONED)
- ASSOCIATED SEPARATOR
- ASSOCIATED FLOWLINE (REMOVED)
- ASSOCIATED FLOWLINE (ABANDONED IN PLACE)
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS – FIELD SCREENED
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS – SUBMITTED FOR LAB ANALYSIS



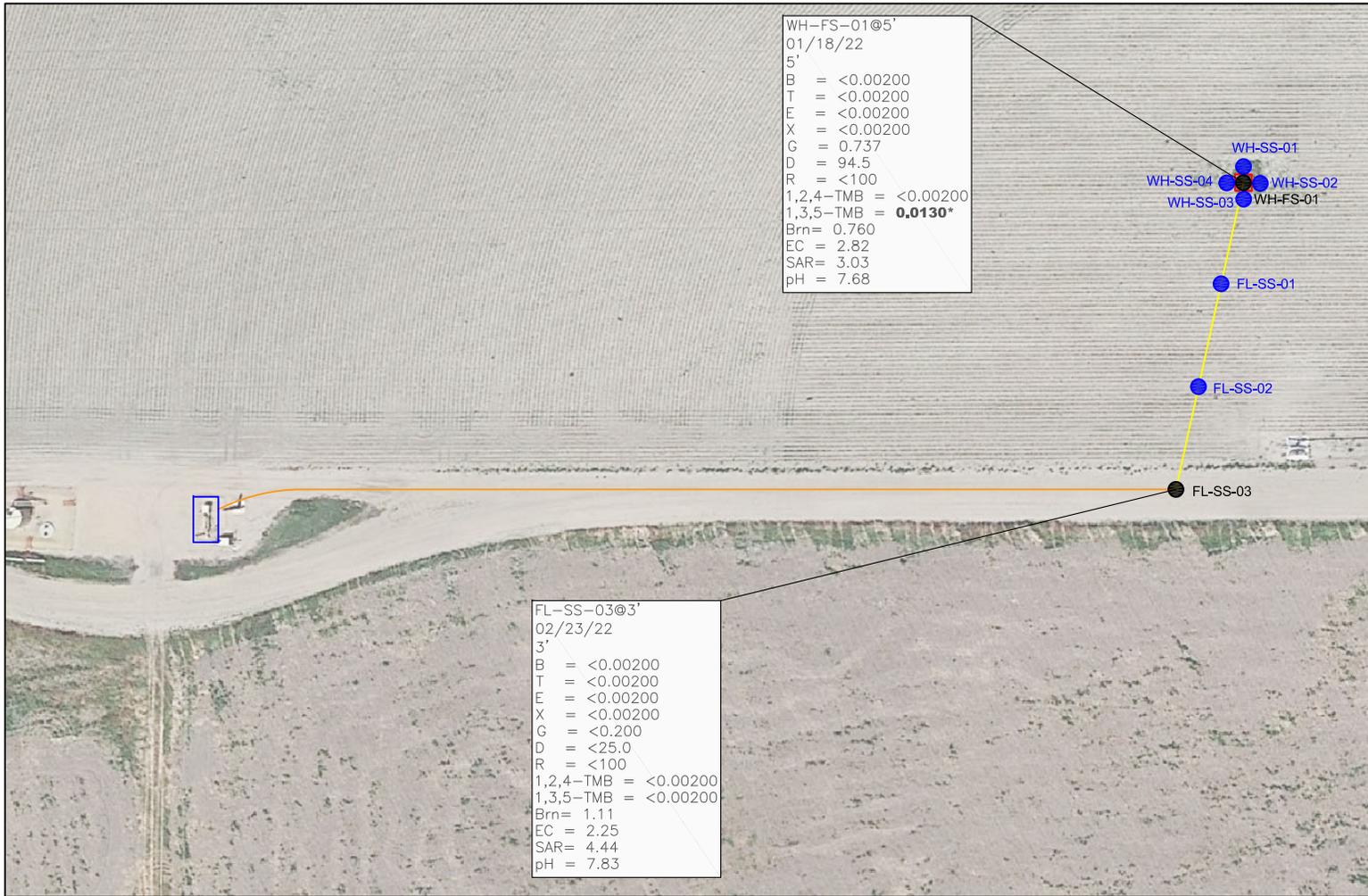
AERIAL SITE LOCATION MAP  
 FUEGO C #1-19  
 CLOSURE ASSESSMENT  
 40.345490 / -104.503600  
 NW1/4 NW1/4 SEC.1 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-23166  
 REMEDIATION # 20100

DATE: 04/28/22

FIG. NO. 2      DRAWN BY: GEC



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**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

<b>SAMPLE LOCATION</b>	
DATE	
DEPTH (FEET)	
B = BENZENE (mg/kg)	
T = TOLUENE (mg/kg)	
E = ETHYLBENZENE (mg/kg)	
X = TOTAL XYLENES (mg/kg)	
G = TPH-GRO (mg/kg)	
D = TPH-DRO (mg/kg)	
R = TPH-RRO (mg/kg)	
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)	
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)	
Brn= BORON (mg/L)	
EC = SPECIFIC CONDUCTANCE (mmhos/cm)	
SAR= SODIUM ADSORPTION RATIO	
pH = pH (pH UNITS)	

mg/kg = MILLIGRAMS PER KILOGRAM  
 mg/L = MILLIGRAMS PER LITER  
 mmhos/cm = MILLIMHOS PER CENTIMETER

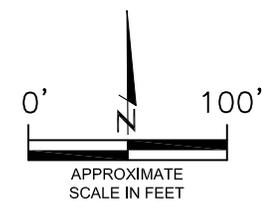
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS – GASOLINE RANGE ORGANICS  
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS  
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS – RESIDUAL RANGE ORGANICS

**NOTES:**  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING THE APPLICABLE COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

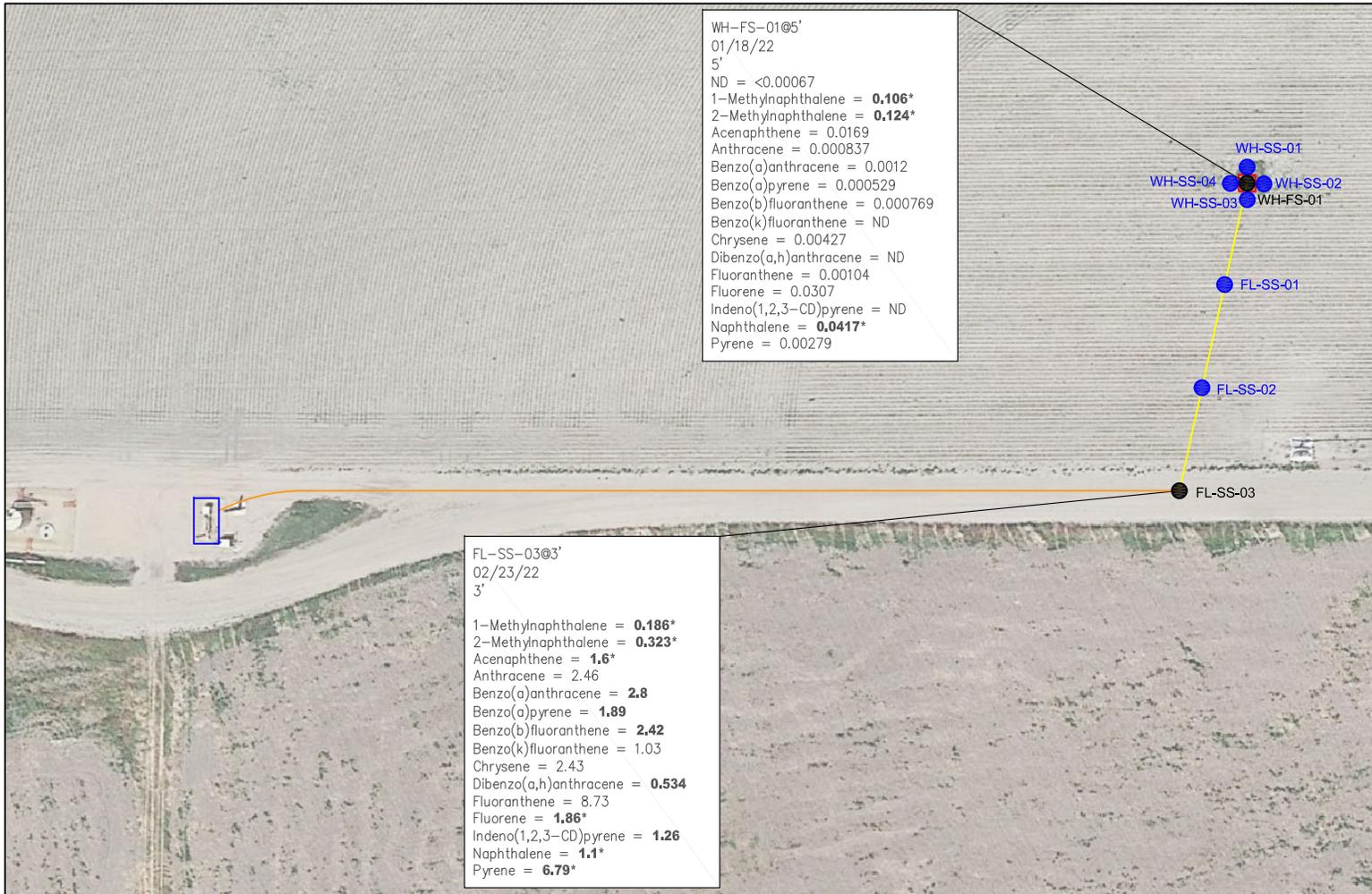
COGCC – COLORADO OIL AND GAS CONSERVATION COMMISSION

**SOIL ANALYTICAL MAP**  
 FUEGO C #1-19  
 CLOSURE ASSESSMENT  
 40.345490 / -104.503600  
 NW1/4 NW1/4 SEC.1 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-23166  
 REMEDIATION # 20100



DATE:	04/28/22
DRAWN BY:	GEC
FIG. NO.	3

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WH-FS-01@5'  
01/18/22  
5'  
ND = <0.00067

1-Methylnaphthalene	= <b>0.106*</b>
2-Methylnaphthalene	= <b>0.124*</b>
Acenaphthene	= 0.0169
Anthracene	= 0.000837
Benzo(a)anthracene	= 0.0012
Benzo(a)pyrene	= 0.000529
Benzo(b)fluoranthene	= 0.000769
Benzo(k)fluoranthene	= ND
Chrysene	= 0.00427
Dibenzo(a,h)anthracene	= ND
Fluoranthene	= 0.00104
Fluorene	= 0.0307
Indeno(1,2,3-CD)pyrene	= ND
Naphthalene	= <b>0.0417*</b>
Pyrene	= 0.00279

FL-SS-03@3'  
02/23/22  
3'

1-Methylnaphthalene	= <b>0.186*</b>
2-Methylnaphthalene	= <b>0.323*</b>
Acenaphthene	= <b>1.6*</b>
Anthracene	= 2.46
Benzo(a)anthracene	= <b>2.8</b>
Benzo(a)pyrene	= <b>1.89</b>
Benzo(b)fluoranthene	= <b>2.42</b>
Benzo(k)fluoranthene	= 1.03
Chrysene	= 2.43
Dibenzo(a,h)anthracene	= <b>0.534</b>
Fluoranthene	= 8.73
Fluorene	= <b>1.86*</b>
Indeno(1,2,3-CD)pyrene	= <b>1.26</b>
Naphthalene	= <b>1.1*</b>
Pyrene	= <b>6.79*</b>

**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:  
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

ND - NON-DETECT

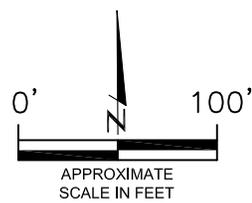
NOTE:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY REPORTING LIMITS

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING THE APPLICABLE COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

VALUES WITH ASTERISK (\*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS FOR THAT COMPOUND.

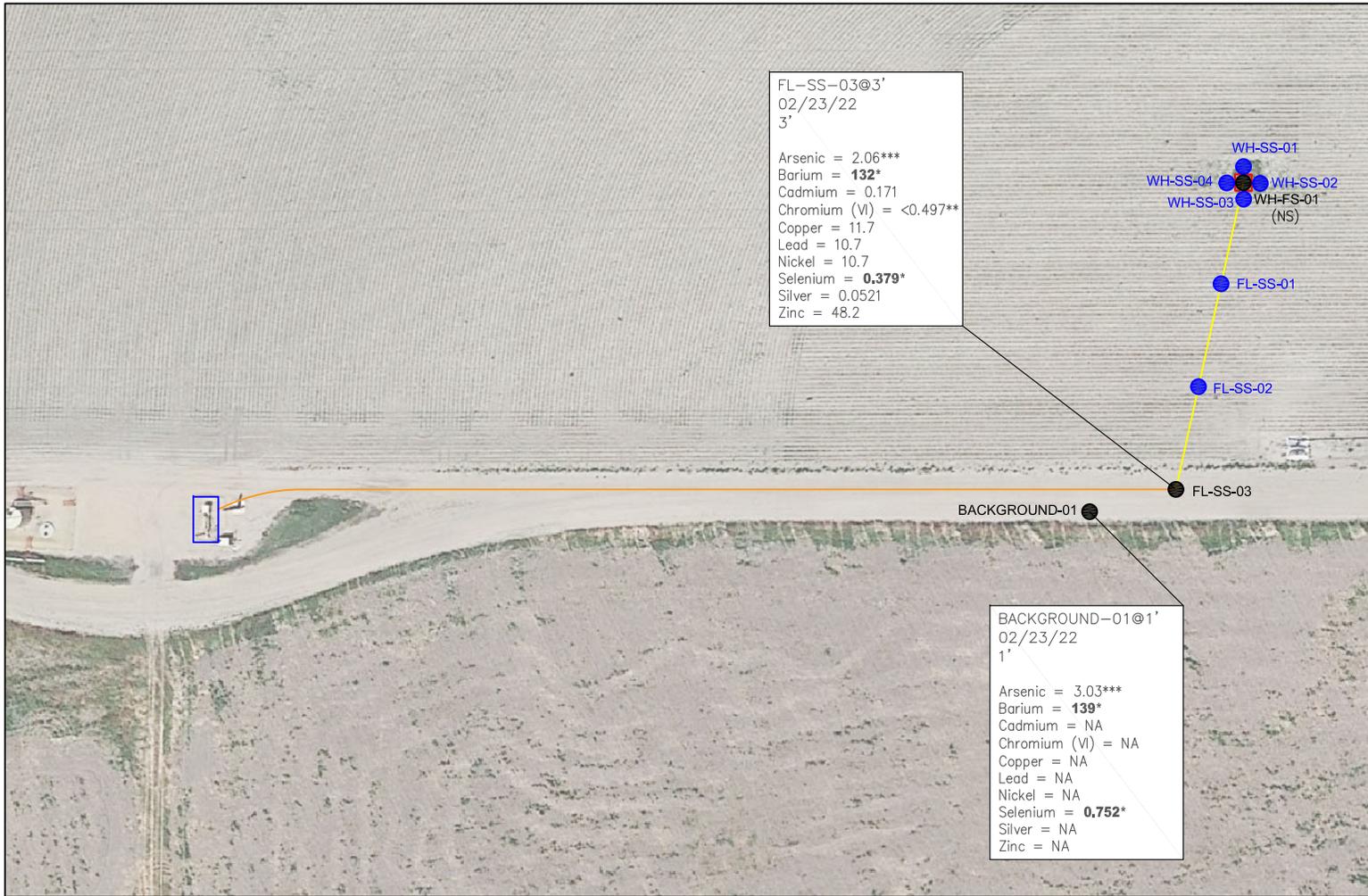
COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP  
FUEGO C #1-19  
CLOSURE ASSESSMENT  
40.345490 / -104.503600  
NW1/4 NW1/4 SEC.1 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-23166  
REMEDATION # 20100



DATE:	04/28/22
DRAWN BY:	GEC
FIG. NO.	4

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FL-SS-03@3'  
02/23/22  
3'

Arsenic = 2.06\*\*\*  
Barium = **132\***  
Cadmium = 0.171  
Chromium (VI) = <0.497\*\*  
Copper = 11.7  
Lead = 10.7  
Nickel = 10.7  
Selenium = **0.379\***  
Silver = 0.0521  
Zinc = 48.2

BACKGROUND-01@1'  
02/23/22  
1'

Arsenic = 3.03\*\*\*  
Barium = **139\***  
Cadmium = NA  
Chromium (VI) = NA  
Copper = NA  
Lead = NA  
Nickel = NA  
Selenium = **0.752\***  
Silver = NA  
Zinc = NA

**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH  
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)

mg/kg = MILLIGRAMS PER KILOGRAM

(NS) – NOT SAMPLED  
NA – NOT ANALYZED

NOTE:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 VALUES

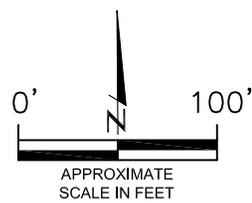
\*VALUES EXCEED COGCC TABLE 915-1 "PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS" FOR THAT COMPOUND.

\*\*ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

\*\*\*ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVEL (3.79 mg/kg) IS 1.25\*BACKGROUND (3.03 mg/kg)

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

METALS IN SOIL MAP  
FUEGO C #1-19  
CLOSURE ASSESSMENT  
40.345490 / -104.503600  
NW1/4 NW1/4 SEC.1 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-23166  
REMEDATION # 20100



DATE:  
04/28/22  
DRAWN BY:  
GEC  
FIG.  
NO. 5

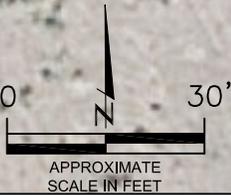


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Ph: 303-433-0479 • F: 303-325-5449



TB-SS-02@3'  
 02/22/22  
 3'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 G = <0.200  
 D = <25.0  
 R = <100  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = <0.00200  
 Brn= 0.415  
 EC = 0.388  
 SAR= 0.624  
 pH = 7.96

TB-SS-02



**LEGEND**

● APPROXIMATE LOCATION OF SOIL SAMPLE\*  
 SS-02 SUBMITTED FOR LABORATORY ANALYSIS

SAMPLE COLLECTED DURING FACILITY DECOMMISSIONING  
 ACTIVITIES ASSOCIATED WITH REMEDIATION # 20094

**PARAMETERS**

SAMPLE LOCATION  
 DATE  
 DEPTH (FEET)  
 B = BENZENE (mg/kg)  
 T = TOLUENE (mg/kg)  
 E = ETHYLBENZENE (mg/kg)  
 X = TOTAL XYLENES (mg/kg)  
 G = TPH-GRO (mg/kg)  
 D = TPH-DRO (mg/kg)  
 R = TPH-RRO (mg/kg)  
 1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)  
 1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)  
 Brn= BORON (mg/L)  
 EC = SPECIFIC CONDUCTANCE (mmhos/cm)  
 SAR= SODIUM ADSORPTION RATIO  
 pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM  
 mg/L = MILLIGRAMS PER LITER  
 mmhos/cm = MILLIMHOS PER CENTIMETER

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS THAT EXCEED COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP  
 (FLOWLINE\_PT\_B)  
 FUEGO C #1-19  
 CLOSURE ASSESSMENT  
 40.345490 / -104.503600  
 NW1/4 NW1/4 SEC.1 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-23166  
 REMEDIATION # 20100

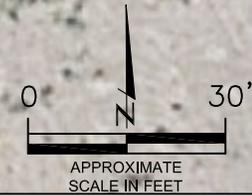
DATE:  
 04/28/22  
 DRAWN BY:  
 GEC  
 FIG.  
 NO. 6





TB-SS-02@3'  
 02/22/22  
 3'  
 ND = <0.00067  
 1-Methylnaphthalene = 0.00248  
 2-Methylnaphthalene = 0.00215  
 Acenaphthene = ND  
 Anthracene = ND  
 Benzo(a)anthracene = ND  
 Benzo(a)pyrene = ND  
 Benzo(b)fluoranthene = ND  
 Benzo(k)fluoranthene = ND  
 Chrysene = 0.000983  
 Dibenzo(a,h)anthracene = ND  
 Fluoranthene = ND  
 Fluorene = 0.000787  
 Indeno(1,2,3-CD)pyrene = ND  
 Naphthalene = 0.00205  
 Pyrene = 0.000702

TB-SS-02



**LEGEND**

● APPROXIMATE LOCATION OF SOIL SAMPLE\*  
 SS-02 SUBMITTED FOR LABORATORY ANALYSIS

SAMPLE COLLECTED DURING FACILITY DECOMMISSIONING  
 ACTIVITIES ASSOCIATED WITH REMEDIATION # 20094

**PARAMETERS**

SAMPLE LOCATION  
 DATE SAMPLE COLLECTED  
 APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:  
 CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

NOTE:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT  
 CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY  
 DETECTION LIMITS

VALUES PRESENTED IN **BOLD** VALUES CONTAIN  
 CONCENTRATIONS EXCEEDING COGCC TABLE 915-1  
 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**POLYCYCLIC AROMATIC HYDROCARBONS MAP**

(FLOWLINE PT. B)  
 FUEGO C #1-19  
 CLOSURE ASSESSMENT  
 40.345490 / -104.503600  
 NW1/4 NW1/4 SEC.1 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-23166  
 REMEDIATION # 20100

DATE:  
 04/28/22

DRAWN BY:  
 GEC

FIG.  
 NO. 7

**EAGLE**  
 ENVIRONMENTAL  
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## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary**

**Table 4: Metals Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**FUEGO C #1-19**  
**CLOSURE ASSESSMENT**  
**40.345490 / -104.503600**  
**NW1/4 NW1/4 SEC.1 T4N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-23166**  
**REMEDIAION # 20100**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 4.5' (40.345527 / -104.503627)	1/18/2022	4.5	2.6	N
WH-SS-02 @ 4.5' (40.345498 / -104.503575)	1/18/2022	4.5	3.8	N
WH-SS-03 @ 4.5' (40.345476 / -104.503617)	1/18/2022	4.5	2.2	N
WH-SS-04 @ 4.5' (40.345496 / -104.503667)	1/18/2022	4.5	4.8	N
WH-FS-01 @ 5' (40.345500 / -104.503622)	1/18/2022	5	6.1	Y
*TB-SS-02 @ 3' (40.344989 / -104.505721)	2/22/2022	3	73.2	Y
FL-SS-01 @ 3' (40.345318 / -104.503698)	2/23/2022	3	2.6	N
FL-SS-02 @ 3' (40.345194 / -104.503729)	2/23/2022	3	3.1	N
FL-SS-03 @ 3' (40.345004 / -104.503777)	2/23/2022	3	10.1	Y
Background-01 @ 1' (40.344949 / -104.503391)	2/23/2022	1	3.8	Y
(Y/N) = Yes or No		*Sample collected during facility decommissioning activities		
ppm-v = parts per million by volume		associated with Rem. # 20094		
PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
FUEGO C #1-19  
CLOSURE ASSESSMENT  
40.345490 / -104.503600  
NW1/4 NW1/4 SEC.1 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-23166  
REMEDIAION # 20100

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
<b>COGCC Table 915-1 Residential Screening Levels (mg/kg)</b>				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
WH-FS-01 @ 5' (40.345500 / -104.503622)	1/18/2022	5	6.1	<0.00200	<0.00200	<0.00200	<0.00200	0.737	94.5	<100	<0.00200	<b>0.0130*</b>	0.760	2.82	7.68	3.03
*TB-SS-02 @ 3' (40.344989 / -104.505721)	2/22/2022	3	73.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.415	0.388	7.96	0.624
FL-SS-03 @ 3' (40.345004 / -104.503777)	2/23/2022	3	10.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	1.11	2.25	7.83	4.44
COGCC = Colorado Oil and Gas Conservation Commission								*Sample collected during facility decommissioning activities associated with Rem. # 20094								
mg/kg = milligrams per kilogram				TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				1,2,4-TMB = 1,2,4-Trimethylbenzene		MDL = Minimum Detection Limits						
mmhos/cm = millimhos per centimeter				TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				1,3,5-TMB = 1,3,5-Trimethylbenzene								
PID = Photoionization Detector				TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics												
ppm-v = parts per million by volume																
mg/L = milligrams per liter																
SAR = Sodium Adsorption Ratio																
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit.																
Note: Values presented in <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels for that compound																

TABLE 3  
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY  
FUEGO C #1-19  
CLOSURE ASSESSMENT  
40.345490 / -104.503600  
NW1/4 NW1/4 SEC.1 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-23166  
REMEDATION # 20100

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm- v)	1-Methyl- naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	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)	Naphthalene (mg/kg)	Pyrene (mg/kg)	
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>2</b>	<b>180</b>	
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.006</b>	<b>0.019</b>	<b>0.55</b>	<b>5.8</b>	<b>0.011</b>	<b>0.24</b>	<b>0.3</b>	<b>2.9</b>	<b>9</b>	<b>0.096</b>	<b>8.9</b>	<b>0.54</b>	<b>0.98</b>	<b>0.0038</b>	<b>1.3</b>	
WH-FS-01 @ 5' (40.345500 / -104.503622)	1/18/2022	5	6.1	<b>0.106*</b>	<b>0.124*</b>	0.0169	0.000837	0.0012	0.000529	0.000769	<0.00067	0.00472	<0.00067	0.00104	0.0307	<0.00067	<b>0.0417</b>	0.00279	
*TB-SS-02 @ 3' (40.344989 / -104.505721)	2/22/2022	3	73.2	0.000248	0.00215	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000983	<0.00067	<0.00067	0.000787	<0.00067	0.00205	0.000702	
FL-SS-03 @ 3' (40.345004 / -104.503777)	2/23/2022	3	10.1	<b>0.186*</b>	<b>0.323*</b>	<b>1.6*</b>	2.46	<b>2.8</b>	<b>1.89</b>	<b>2.42</b>	1.03	2.43	<b>0.534</b>	8.73	<b>1.86*</b>	<b>1.26</b>	<b>1.1*</b>	<b>6.79*</b>	
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram				PID = Photoionization Detector ppm-v = parts per million by volume MDL - Minimum Detection Limit				*Sample collected during facility decommissioning activities associated with Rem. # 20094											
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit.																			
Note: Values presented in <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels for that compound																			

TABLE 4  
METALS ANALYTICAL RESULTS SUMMARY  
FUEGO C #1-19  
CLOSURE ASSESSMENT  
40.345490 / -104.503600  
NW1/4 NW1/4 SEC.1 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-23166  
REMEDATION # 20100

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>			0.68***	15,000	71	0.3**	3,100	400	1,500	390	390	23,000
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>			0.29***	82	0.38	0.00067**	46	14	26	0.26	0.8	370
<b>Local Cleanup Levels</b>			3.79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FL-SS-03 @ 3' (40.345004 / -104.503777)	2/23/2022	3	2.06***	132*	0.171	<0.497**	11.7	10.7	10.7	0.379*	0.0521	48.2
Background-01 @ 1' (40.344949 / -104.503391)	2/23/2022	1	3.03***	139*	NA	NA	NA	NA	NA	0.752*	NA	NA
COGCC = Colorado Oil and Gas Conservation Commission			NA - Not Analyzed									
mg/kg = milligrams per kilogram			N/A - Not Applicable									
Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels.												
Values presented in <b>BOLD</b> contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits												
Values presented with an asterisk (*) contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels												
**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.												
***Arsenic is naturally occurring in Colorado. Local "clean-up level" (3.79 mg/kg) is 1.25*Background (3.03 mg/kg)												



## **ATTACHMENT A**

### **Photo Log**

Fuego C #1-19  
API # 05-123-23166  
Remediation # 20100

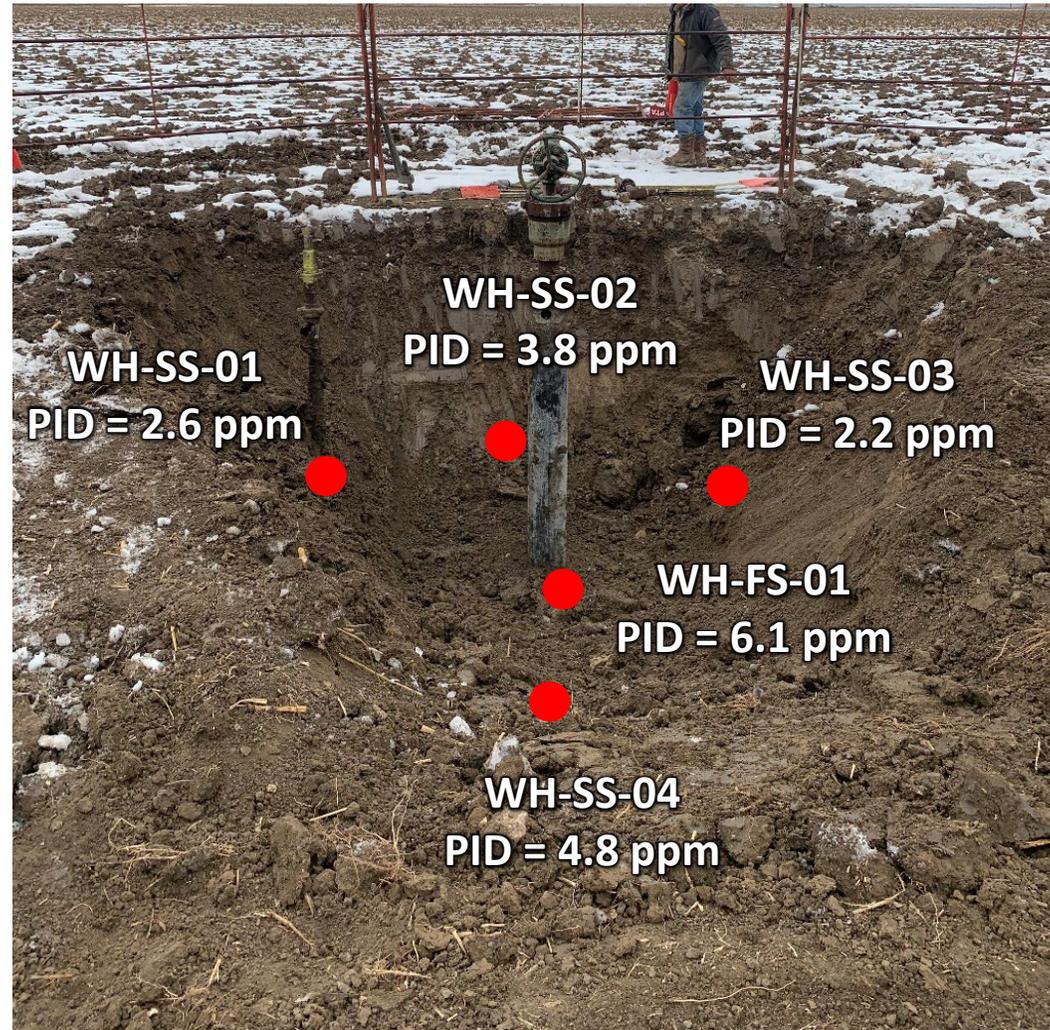
Closure Assessment  
January/February 2022



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



# Wellhead Excavation – 01/18/22



Looking east

No petroleum hydrocarbon staining or odor observed

## Flowline Assessment - 02/22/22



TB-SS-02@3'  
PID = 73.2 ppm

Looking west

Pt. B/terminus (at separator) collected during facility decommissioning activities associated with Rem. # 20094

Petroleum hydrocarbon staining and odor observed

## Flowline Assessment – 02/23/22



Looking north

No petroleum hydrocarbon staining or odor observed

## Flowline Assessment – 02/23/22



Looking north

No petroleum hydrocarbon staining or odor observed

## Flowline Assessment – 02/23/22



FL-SS-03  
PID 10.1 ppm

Looking north at change of direction location

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Reports\***

**\*Flowline Pt. B sample collected during decommissioning activities associated with Rem. # 20100.**

**Sample included on lab report for battery – See TB-SS-02@3'**



January 26, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Fuego C #1-19

Project Number - [none]

Attached are your analytical results for Noble - Fuego C #1-19 received by Origins Laboratory, Inc. January 18, 2022. This project is associated with Origins project number Y201319-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Fuego C #1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@5'	Y201319-01	Soil	January 18, 2022 11:54	01/18/2022 16:11

Origins Laboratory, Inc.



*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.*



Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y201319

Client: Eagle

Client Project ID: Fuego C1-19

Checklist Completed by: JG

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/18/22

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1, 5.0 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

JG  
 Reviewed by (Project Manager)

1/19/22  
 Date/Time Reviewed

Origins Laboratory, Inc.



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.

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**WH-FS-01@5'**

**1/18/2022 11:54:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y201319-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.760		0.200	mg/L	1	B2A1909	01/19/2022	01/20/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	94.5		25.0	mg/kg	1	B2A1812	01/18/2022	01/19/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	91.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2A2407	01/24/2022	01/24/2022	U
1,3,5-Trimethylbenzene	0.0130		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.737		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**WH-FS-01@5'**

**1/18/2022 11:54:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y201319-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	99.9 %		70-130			B2A24 07	01/24/2022	01/24/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	20.4		0.499	meq/L	10	[CALC]	01/19/2022	01/20/2022	
Magnesium	6.46		0.823	"	"	"	"	"	
Sodium	11.1		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.106	0.000364	0.00067	mg/Kg	1	L595492	01/20/2022	01/21/2022	
2-Methylnaphthalene	0.124	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.0169	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000837	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0012	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000529	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000769	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00427	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00104	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0307	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**WH-FS-01@5'**

**1/18/2022 11:54:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y201319-01 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.0417	0.000484	0.00067	mg/Kg	1	L595492	01/20/2022	01/21/2022	
Pyrene	0.00279	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.68			pH Units	1	B2A1910	01/19/2022	01/20/2022	
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**SAR by 20B Saturated Paste**

SAR	3.03			SAR	1	B2A1908	01/19/2022	01/20/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.82		0.00500	mmhos/cm	1	B2A1911	01/19/2022	01/20/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2A1812 - EPA 3550B</b>										
<b>Blank (B2A1812-BLK1)</b>										
					Prepared: 01/18/2022 Analyzed: 01/18/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.9	50-150			

Origins Laboratory, Inc.



*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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2A1812 - EPA 3550B</b>										
<b>LCS (B2A1812-BS1)</b>										
					Prepared: 01/18/2022 Analyzed: 01/18/2022					
Diesel (C10-C28)	969	50.0	mg/kg	1000		96.9	70-130			
Residual Range Organics (C28-C40)	963	200	"	1000		96.3	70-130			
Surrogate: o-Terphenyl	41		"	49.8		83.2	50-150			

Origins Laboratory, Inc.



*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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B2A1812 - EPA 3550B**

<b>Matrix Spike (B2A1812-MS1)</b>	<b>Source: Y201302-01</b>			<b>Prepared: 01/18/2022 Analyzed: 01/18/2022</b>						
Diesel (C10-C28)	906	50.0	mg/kg	1000	ND	90.6	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.3	50-150			

Origins Laboratory, Inc.



*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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B2A1812 - EPA 3550B**

<b>Matrix Spike Dup (B2A1812-MSD1)</b>	<b>Source: Y201302-01</b>		<b>Prepared: 01/18/2022 Analyzed: 01/18/2022</b>							
Diesel (C10-C28)	928	50.0	mg/kg	1000	ND	92.8	70-130	2.41	35	
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	70-130	3.71	35	
<i>Surrogate: o-Terphenyl</i>	40		"	49.8		81.4	50-150			

Origins Laboratory, Inc.



*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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2A2407 - EPA 5030 (soil)**

**Blank (B2A2407-BLK1)**

Prepared: 01/24/2022 Analyzed: 01/24/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	91.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.5		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2A2407 - EPA 5030 (soil)

**LCS (B2A2407-BS1)**

Prepared: 01/24/2022 Analyzed: 01/24/2022

1,2,4-Trimethylbenzene	0.0811	0.00200	mg/kg	0.100		81.1	70-130			
1,3,5-Trimethylbenzene	0.0831	0.00200	"	0.100		83.1	70-130			
Benzene	0.0935	0.00200	"	0.100		93.5	70-130			
Ethylbenzene	0.0840	0.00200	"	0.100		84.0	70-130			
Naphthalene	0.0813	0.0100	"	0.100		81.3	70-130			
Toluene	0.0852	0.00200	"	0.100		85.2	70-130			
o-Xylene	0.0823	0.00200	"	0.100		82.3	70-130			
m,p-Xylene	0.169	0.00400	"	0.200		84.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2A2407 - EPA 5030 (soil)

Matrix Spike (B2A2407-MS1)	Source: Y201295-01			Prepared: 01/24/2022 Analyzed: 01/24/2022						
1,2,4-Trimethylbenzene	0.0852	0.00200	mg/kg	0.100	ND	85.2	70-130			
1,3,5-Trimethylbenzene	0.0865	0.00200	"	0.100	ND	86.5	70-130			
Benzene	0.0989	0.00200	"	0.100	ND	98.9	70-130			
Ethylbenzene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
Naphthalene	0.0947	0.0100	"	0.100	0.000520	94.2	70-130			
Toluene	0.0888	0.00200	"	0.100	ND	88.8	70-130			
o-Xylene	0.0859	0.00200	"	0.100	ND	85.9	70-130			
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.3	70-130			

Origins Laboratory, Inc.



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.

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2A2407 - EPA 5030 (soil)

Matrix Spike Dup (B2A2407-MSD1)	Source: Y201295-01			Prepared: 01/24/2022 Analyzed: 01/24/2022						
1,2,4-Trimethylbenzene	0.0811	0.00200	mg/kg	0.100	ND	81.1	70-130	4.98	20	
1,3,5-Trimethylbenzene	0.0814	0.00200	"	0.100	ND	81.4	70-130	6.03	20	
Benzene	0.0943	0.00200	"	0.100	ND	94.3	70-130	4.76	20	
Ethylbenzene	0.0832	0.00200	"	0.100	ND	83.2	70-130	5.31	20	
Naphthalene	0.0865	0.0100	"	0.100	0.000520	86.0	70-130	9.07	20	
Toluene	0.0849	0.00200	"	0.100	ND	84.9	70-130	4.45	20	
o-Xylene	0.0822	0.00200	"	0.100	ND	82.2	70-130	4.43	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.6	70-130	5.42	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.5	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L595492 - 3550B

MSD (L 87425-MSD-L595492)		Source: Y201319-01			Prepared: 01/20/2022 Analyzed: 01/21/2022					
Pyrene	0.101	0.000643	mg/Kg	0.167	0.00279	58.8	30-130	2.9	30	
Indeno(1,2,3-cd)pyrene	0.162	0.000627	"	0.167	87425	97	30-130	14.5	30	
Fluorene	0.124	0.000286	"	0.167	0.0307	55.8	30-130	1.6	30	
Fluoranthene	0.107	0.000394	"	0.167	0.00104	63.4	30-130	5.4	30	
Dibenz(a,h)anthracene	0.168	0.000614	"	0.167	87425	101	30-130	15.3	30	
Chrysene	0.113	0.000624	"	0.167	0.00427	65.1	30-130	2.6	30	
Benzo(k)fluoranthene	0.102	0.000437	"	0.167	87425	61	30-130	3.8	30	
Naphthalene	0.147	0.000484	"	0.167	0.0417	63	30-130	1.3	30	
1-Methylnaphthalene	0.24	0.000364	"	0.167	0.106	80.2	30-130	11.9	30	
Benzo(a)pyrene	0.115	0.000468	"	0.167	0.000529	68.8	30-130	3.4	30	
Benzo(a)anthracene	0.107	0.000493	"	0.167	0.0012	63.3	30-130	6.3	30	
Anthracene	0.0777	0.000334	"	0.167	0.000837	46	30-130	3.2	30	
Acenaphthene	0.0995	0.000304	"	0.167	0.0169	49.4	30-130	2.1	30	
2-Methylnaphthalene	0.131	0.000645	"	0.167	0.124	4.1	30-130	50.7	30	*
Benzo(b)fluoranthene	0.0961	0.000585	"	0.167	0.000769	57	30-130	1	30	
Surrogate: 4-Terphenyl-d14	64.8		"	0.333	272	64.8	33-122			
Surrogate: 2-Fluorobiphenyl	56.4		"	0.333	175	56.4	33-115			
Surrogate: Nitrobenzene-d5	49.5		"	0.333	175	49.5	29-110			

MS (L 87425-MS-L595492)		Source: Y201319-01			Prepared: 01/20/2022 Analyzed: 01/21/2022					
Chrysene	0.11	0.000624	mg/Kg	0.166	0.00427	63.6	30-130			
Benzo(k)fluoranthene	0.106	0.000437	"	0.166	87425	63.8	30-130			
Benzo(b)fluoranthene	0.0951	0.000585	"	0.166	0.000769	56.8	30-130			
Benzo(a)pyrene	0.119	0.000468	"	0.166	0.000529	71.6	30-130			
Benzo(a)anthracene	0.114	0.000493	"	0.166	0.0012	67.9	30-130			
Dibenz(a,h)anthracene	0.144	0.000614	"	0.166	87425	86.7	30-130			
Acenaphthene	0.0974	0.000304	"	0.166	0.0169	48.4	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L595492 - 3550B**

<b>MS (L 87425-MS-L595492)</b>		<b>Source: Y201319-01</b>			Prepared: 01/20/2022 Analyzed: 01/21/2022					
2-Methylnaphthalene	0.22	0.000645	mg/Kg	0.166	0.124	57.8	30-130			
Anthracene	0.0752	0.000334	"	0.166	0.000837	44.7	30-130			
Fluoranthene	0.113	0.000394	"	0.166	0.00104	67.4	30-130			
Fluorene	0.122	0.000286	"	0.166	0.0307	55	30-130			
Indeno(1,2,3-cd)pyrene	0.14	0.000627	"	0.166	87425	84.3	30-130			
Naphthalene	0.149	0.000484	"	0.166	0.0417	64.6	30-130			
Pyrene	0.104	0.000643	"	0.166	0.00279	60.9	30-130			
1-Methylnaphthalene	0.213	0.000364	"	0.166	0.106	64.4	30-130			
Surrogate: 2-Fluorobiphenyl	54		"	0.331	175	54	33-115			
Surrogate: 4-Terphenyl-d14	67.9		"	0.331	212	67.9	33-122			
Surrogate: Nitrobenzene-d5	53.1		"	0.331	175	53.1	29-110			

<b>LCS (LCS-L595492)</b>		Prepared: 01/20/2022 Analyzed: 01/21/2022								
Fluoranthene	0.103	0.000394	mg/Kg	0.167		61.6	30-130			
Indeno(1,2,3-cd)pyrene	0.102	0.000627	"	0.167		61	30-130			
1-Methylnaphthalene	0.0865	0.000364	"	0.167		51.7	30-130			
Pyrene	0.102	0.000643	"	0.167		61	30-130			
Fluorene	0.0943	0.000286	"	0.167		56.4	30-130			
Dibenz(a,h)anthracene	0.106	0.000614	"	0.167		63.4	30-130			
Chrysene	0.1	0.000624	"	0.167		59.8	30-130			
Benzo(k)fluoranthene	0.1	0.000437	"	0.167		59.8	30-130			
2-Methylnaphthalene	0.0883	0.000645	"	0.167		52.8	30-130			
Naphthalene	0.0922	0.000484	"	0.167		55.2	30-130			
Benzo(b)fluoranthene	0.0885	0.000585	"	0.167		52.9	30-130			
Acenaphthene	0.0834	0.000304	"	0.167		49.9	30-130			
Anthracene	0.0992	0.000334	"	0.167		59.4	30-130			
Benzo(a)anthracene	0.0975	0.000493	"	0.167		58.3	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L595492 - 3550B**

**LCS (LCS-L595492)**

Prepared: 01/20/2022 Analyzed: 01/21/2022

Benzo(a)pyrene	0.115	0.000468	mg/Kg	0.167		68.8	30-130			
Surrogate: Nitrobenzene-d5	57		"	0.333		57	29-110			
Surrogate: 2-Fluorobiphenyl	54		"	0.333		54	33-115			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333		68.1	33-122			

**LRB (LRB-L595492)**

Prepared: 01/20/2022 Analyzed: 01/21/2022

Chrysene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	0.000496	0.00067	"				-			J
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	62.4		"	0.333		62.4	29-110			
Surrogate: 4-Terphenyl-d14	69		"	0.333		69	33-122			
Surrogate: 2-Fluorobiphenyl	67.5		"	0.333		67.5	33-115			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Fuego C #1-19

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**Notes and Definitions**

- U Sample is Non-Detect.
- J Estimated Value. Analyte below reported quantitation limit.
- \* QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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March 07, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Amigo 1, Fuego C1-19 Tank Battery**      **Project Number - -**

Attached are your analytical results for Noble - Amigo 1, Fuego C1-19 Tank Battery received by Origins Laboratory, Inc. February 22, 2022. This project is associated with Origins project number Y202499-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Noble - Amigo 1, Fuego C1-19 Tank  
Battery

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WV-SS-01@4'	Y202499-01	Soil	February 22, 2022 12:50	02/22/2022 16:26
WV-SS-02@4'	Y202499-02	Soil	February 22, 2022 12:51	02/22/2022 16:26
WV-SS-03@4'	Y202499-03	Soil	February 22, 2022 12:52	02/22/2022 16:26
WV-SS-04@4'	Y202499-04	Soil	February 22, 2022 12:53	02/22/2022 16:26
WV-FS-01@5'	Y202499-05	Soil	February 22, 2022 12:54	02/22/2022 16:26
WV-DL-01@3'	Y202499-06	Soil	February 22, 2022 13:35	02/22/2022 16:26
TB-SS-01@0.5'	Y202499-07	Soil	February 22, 2022 13:00	02/22/2022 16:26
TB-SS-02@3'	Y202499-08	Soil	February 22, 2022 13:40	02/22/2022 16:26

### Chain of Custody Modification Request

On 3/7/2022, Grace Congdon from Eagle Environmental contacted Jennifer Pellegrini via email regarding Y202499 requesting that sample ID TB-SS-01@5' be changed on chain of custody to TB-SS-01@0.5'.

Requested modifications to the chain of custody were made by Jordan Merrill on 3/7/2022.

Origins Laboratory, Inc.



*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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery



www.originslaboratory.com

420840A

page 1 of 1

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave, Wheat Ridge, CO, 80033  
 Telephone Number: 303-433-0479  
 Email Address: mice3@eagle-environ.com

Project Manager: Martin Eckert III  
 Project Name: Amigo 1, Fuego C1-19 Tank Battery  
 Project Number: -  
 Samples Collected By: BPLS/AH

Fax: 303.265.9645 | Phone: 303.433.1322

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	Turnaround Time							
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa				Canister #	Other	Time	Date	Time	Date	
WV-SS-01@4'	2-22-22	1250	2	X				X			X	X	X	EC SAR, pH by	24 Hr <input type="checkbox"/>	48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>		
WV-SS-02@4'		1251												Saturated paste prep						
WV-SS-03@4'		1252																		
WV-SS-04@4'		1253																		
WV-FS-01@5'		1254												MD's needed						
WV-DL-01@3'		1335																		
TB-SS-01@5'		1300																		
TB-SS-02@3'		1340																		
Relinquished By: <i>Boye W</i>	Date: 2/22/22	Time: 1626	Received By: <i>[Signature]</i>	Date: 2/22/22	Time: 1626	Relinquished By: <i>[Signature]</i>	Date: 2/22/22	Time: 1626	Received By: <i>[Signature]</i>	Date: 2/22/22	Time: 1626	Relinquished By: <i>[Signature]</i>	Date: 2/22/22	Time: 1626	Received By: <i>[Signature]</i>	Date: 2/22/22	Time: 1626	Relinquished By: <i>[Signature]</i>	Date: 2/22/22	Time: 1626

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322

Date Results Needed: 2/22/22

1.5°

AR Bill to Cole

Origins Laboratory, Inc.

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.

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 1202499

Client: Eagle

Client Project ID: Amigo 1, Fuego C1-19 TB

Checklist Completed by: KH

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/23/22

Airbill #: NA

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 1.5 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T05

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" 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"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) 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 and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<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 date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 2/23/22

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**WV-SS-01@4'**  
**2/22/2022 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.725		0.101	mg/L	1	B2B2309	02/23/2022	02/24/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	81.6		25.0	mg/kg	1	B2B2401	02/24/2022	03/01/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	105 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00344		0.00200	mg/kg	1	B2B2404	02/24/2022	02/26/2022	
1,3,5-Trimethylbenzene	0.0198		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.69		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.8 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-SS-01@4'**  
**2/22/2022 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene 107 % 70-130 B2B24 04 02/24/2022 02/26/2022

**Metals by Saturated Paste by EPA 6010**

Calcium	2.61	0.499	meq/L	10	[CALC]	02/23/2022	02/24/2022
Magnesium	1.75	0.823	"	"	"	"	"
Sodium	6.78	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0524	0.000364	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022
2-Methylnaphthalene	0.0905	0.000645	0.00067	"	"	"	"	"
Acenaphthene	0.00802	0.000304	0.00067	"	"	"	"	"
Anthracene	0.000556	0.000334	0.00067	"	"	"	"	" J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00551	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000604	0.000394	0.00067	"	"	"	"	" J
Fluorene	0.0185	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-SS-01@4'**  
**2/22/2022 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y202499-01 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.019	0.000484	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
Pyrene	0.00255	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.1 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.03			pH Units	1	B2B2311	02/23/2022	02/24/2022	
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**SAR by 20B Saturated Paste**

SAR	4.59			SAR	1	B2B2307	02/23/2022	02/24/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.28		0.00500	mmhos/cm	1	B2B2313	02/23/2022	02/24/2022	
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**Total Metals by 6020B**

Arsenic	4.3	0.0855	0.25	mg/Kg	5	L601932	02/28/2022	03/05/2022	
Barium	111	0.042	0.25	"	"	"	"	"	
Cadmium	0.187	0.0259	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-SS-01@4'**

**2/22/2022 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y202499-01 (Soil)**

**Total Metals by 6020B**

Copper	12.5	0.0806	0.25	mg/Kg	5	L601932	02/28/2022	03/05/2022	
Lead	10.3	0.031	0.25	"	"	"	"	"	
Nickel	11.6	0.0633	0.25	"	"	"	"	"	
Selenium	0.566	0.103	0.25	"	"	"	"	"	
Silver	0.0495	0.0067	0.25	"	"	"	"	"	J
Zinc	49.7	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	2	L602872	02/22/2022	03/04/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**WV-SS-02@4'**  
**2/22/2022 12:51:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.296		0.0986	mg/L	1	B2B2309	02/23/2022	02/24/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2B2401	02/24/2022	03/01/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2B2404	02/24/2022	02/26/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.442		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.2 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**WV-SS-02@4'**  
**2/22/2022 12:51:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	104 %		70-130			B2B24 04	02/24/2022	02/26/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.44		0.499	meq/L	10	[CALC]	02/23/2022	02/24/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.91		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0155	0.000364	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
2-Methylnaphthalene	0.0286	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.00201	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00159	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00047	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.00419	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-SS-02@4'**

**2/22/2022 12:51:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y202499-02 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.00656	0.000484	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
Pyrene	0.000918	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.8 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.25			pH Units	1	B2B2311	02/23/2022	02/24/2022	
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**SAR by 20B Saturated Paste**

SAR	1.80			SAR	1	B2B2307	02/23/2022	02/24/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.442		0.00500	mmhos/cm	1	B2B2313	02/23/2022	02/24/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**WV-SS-03@4'**  
**2/22/2022 12:52:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.855		0.0994	mg/L	1	B2B2309	02/23/2022	02/24/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2B2401	02/24/2022	03/01/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2B2404	02/24/2022	02/26/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**WV-SS-03@4'**

**2/22/2022 12:52:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.8 %		70-130			B2B24 04	02/24/2022	02/26/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>1.59</b>		0.499	meq/L	10	[CALC]	02/23/2022	02/24/2022	
Magnesium	<b>0.831</b>		0.823	"	"	"	"	"	
Sodium	<b>1.32</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	<b>0.00221</b>	<b>0.000364</b>	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
2-Methylnaphthalene	<b>0.00363</b>	<b>0.000645</b>	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	<b>0.000542</b>	<b>0.000286</b>	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-SS-03@4'**  
**2/22/2022 12:52:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y202499-03 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
Naphthalene	<b>0.00103</b>	<b>0.000484</b>	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.4 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.21</b>			pH Units	1	B2B2311	02/23/2022	02/24/2022	
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**SAR by 20B Saturated Paste**

SAR	<b>1.20</b>			SAR	1	B2B2307	02/23/2022	02/24/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.390</b>		0.00500	mmhos/cm	1	B2B2313	02/23/2022	02/24/2022	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-SS-04@4'**  
**2/22/2022 12:53:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.557		0.0994	mg/L	1	B2B2309	02/23/2022	02/24/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2B2401	02/24/2022	03/01/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2B2404	02/24/2022	02/26/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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.

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-SS-04@4'**

**2/22/2022 12:53:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.5 %		70-130			B2B24 04	02/24/2022	02/26/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>3.23</b>		0.499	meq/L	10	[CALC]	02/23/2022	02/24/2022	
Magnesium	<b>1.35</b>		0.823	"	"	"	"	"	
Sodium	<b>2.23</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	<b>0.000673</b>	<b>0.000364</b>	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
2-Methylnaphthalene	<b>0.00109</b>	<b>0.000645</b>	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-SS-04@4'**  
**2/22/2022 12:53:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y202499-04 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.91			pH Units	1	B2B2311	02/23/2022	02/24/2022	
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**SAR by 20B Saturated Paste**

SAR	1.47			SAR	1	B2B2307	02/23/2022	02/24/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.775		0.00500	mmhos/cm	1	B2B2313	02/23/2022	02/24/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**WV-FS-01@5'**  
**2/22/2022 12:54:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.556		0.0993	mg/L	1	B2B2309	02/23/2022	02/24/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2B2401	02/24/2022	03/01/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2B2404	02/24/2022	02/26/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**WV-FS-01@5'**  
**2/22/2022 12:54:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.1 %		70-130			B2B24 04	02/24/2022	02/26/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.70		0.499	meq/L	10	[CALC]	02/23/2022	02/24/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.15		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-FS-01@5'**  
**2/22/2022 12:54:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y202499-05 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	66.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.8 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.08			pH Units	1	B2B2311	02/23/2022	02/24/2022	
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**SAR by 20B Saturated Paste**

SAR	1.02			SAR	1	B2B2307	02/23/2022	02/24/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.403		0.00500	mmhos/cm	1	B2B2313	02/23/2022	02/24/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**WV-DL-01@3'**  
**2/22/2022 1:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.880		0.100	mg/L	1	B2B2309	02/23/2022	02/24/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2B2401	02/24/2022	03/01/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2B2404	02/24/2022	02/26/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-DL-01@3'**  
**2/22/2022 1:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-06 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.5 %		70-130			B2B24 04	02/24/2022	02/26/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.87		0.499	meq/L	10	[CALC]	02/23/2022	02/24/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.22		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0228	0.000364	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
2-Methylnaphthalene	0.0307	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.00433	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000391	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000499	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00476	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0128	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**WV-DL-01@3'**  
**2/22/2022 1:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y202499-06 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
Naphthalene	<b>0.00592</b>	<b>0.000484</b>	0.00067	"	"	"	"	"	
Pyrene	<b>0.00192</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.04</b>			pH Units	1	B2B2311	02/23/2022	02/24/2022	
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**SAR by 20B Saturated Paste**

SAR	<b>1.05</b>			SAR	1	B2B2307	02/23/2022	02/24/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.421</b>		0.00500	mmhos/cm	1	B2B2313	02/23/2022	02/24/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**TB-SS-01@0.5'**  
**2/22/2022 1:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.279		0.0998	mg/L	1	B2B2309	02/23/2022	02/24/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2B2401	02/24/2022	03/01/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	102 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2B2404	02/24/2022	02/26/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**TB-SS-01@0.5'**  
**2/22/2022 1:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-07 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.5 %		70-130			B2B24 04	02/24/2022	02/26/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>2.45</b>		0.499	meq/L	10	[CALC]	02/23/2022	02/24/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>0.700</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	<b>0.000838</b>	<b>0.000468</b>	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	<b>0.00149</b>	<b>0.000585</b>	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	<b>0.00163</b>	<b>0.000624</b>	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	<b>0.00143</b>	<b>0.000394</b>	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**TB-SS-01@0.5'**  
**2/22/2022 1:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y202499-07 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	<b>0.00133</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.30</b>			pH Units	1	B2B2311	02/23/2022	02/24/2022	
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**SAR by 20B Saturated Paste**

SAR	<b>0.556</b>			SAR	1	B2B2307	02/23/2022	02/24/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.489</b>		0.00500	mmhos/cm	1	B2B2313	02/23/2022	02/24/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**TB-SS-02@3'**  
**2/22/2022 1:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.415		0.0988	mg/L	1	B2B2309	02/23/2022	02/24/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2B2401	02/24/2022	03/01/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2B2404	02/24/2022	02/26/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**TB-SS-02@3'**  
**2/22/2022 1:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202499-08 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	95.5 %		70-130			B2B24 04	02/24/2022	02/26/2022	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>1.98</b>		0.499	meq/L	10	[CALC]	02/23/2022	02/24/2022	
Magnesium	<b>0.930</b>		0.823	"	"	"	"	"	
Sodium	<b>0.753</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	<b>0.00248</b>	<b>0.000364</b>	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
2-Methylnaphthalene	<b>0.00215</b>	<b>0.000645</b>	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	<b>0.000983</b>	<b>0.000624</b>	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	<b>0.000787</b>	<b>0.000286</b>	0.00067	"	"	"	"	"	

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**TB-SS-02@3'**  
**2/22/2022 1:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y202499-08 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L601980	02/28/2022	02/28/2022	
Naphthalene	<b>0.00205</b>	<b>0.000484</b>	0.00067	"	"	"	"	"	
Pyrene	<b>0.000702</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	75.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>7.96</b>			pH Units	1	B2B2311	02/23/2022	02/24/2022	
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**SAR by 20B Saturated Paste**

SAR	<b>0.624</b>			SAR	1	B2B2307	02/23/2022	02/24/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.388</b>		0.00500	mmhos/cm	1	B2B2313	02/23/2022	02/24/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2401 - EPA 3550B</b>										
<b>Blank (B2B2401-BLK1)</b>										
					Prepared: 02/24/2022 Analyzed: 03/01/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2401 - EPA 3550B**

**LCS (B2B2401-BS1)**

Prepared: 02/24/2022 Analyzed: 03/01/2022

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	887	200	"	1000		88.7	70-130			
Surrogate: o-Terphenyl	60		"	49.8		120	50-150			

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Jordan A. Merrill, Project Manager

Eagle Environmental Consulting, Inc.  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2401 - EPA 3550B**

<b>Matrix Spike (B2B2401-MS1)</b>	<b>Source: Y202499-02</b>			Prepared: 02/24/2022 Analyzed: 03/01/2022						
Diesel (C10-C28)	850	50.0	mg/kg	1000	ND	85.0	70-130			
Residual Range Organics (C28-C40)	719	200	"	1000	ND	71.9	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.0	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2401 - EPA 3550B</b>										
<b>Matrix Spike Dup (B2B2401-MSD1)</b>		<b>Source: Y202499-02</b>			Prepared: 02/24/2022 Analyzed: 03/01/2022					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130	22.7	35	
Residual Range Organics (C28-C40)	876	200	"	1000	ND	87.6	70-130	19.7	35	
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2404 - EPA 5030 (soil)**

**Blank (B2B2404-BLK1)**

Prepared: 02/24/2022 Analyzed: 02/26/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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Jordan A. Merrill, Project Manager

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2B2404 - EPA 5030 (soil)

**LCS (B2B2404-BS1)**

Prepared: 02/24/2022 Analyzed: 02/26/2022

1,2,4-Trimethylbenzene	0.0863	0.00200	mg/kg	0.100		86.3	70-130			
1,3,5-Trimethylbenzene	0.0877	0.00200	"	0.100		87.7	70-130			
Benzene	0.0884	0.00200	"	0.100		88.4	70-130			
Ethylbenzene	0.0850	0.00200	"	0.100		85.0	70-130			
Naphthalene	0.0883	0.0100	"	0.100		88.3	70-130			
Toluene	0.0839	0.00200	"	0.100		83.9	70-130			
o-Xylene	0.0865	0.00200	"	0.100		86.5	70-130			
m,p-Xylene	0.170	0.00400	"	0.200		85.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2B2404 - EPA 5030 (soil)

Matrix Spike (B2B2404-MS1)	Source: Y202499-01			Prepared: 02/24/2022 Analyzed: 02/26/2022						
1,2,4-Trimethylbenzene	0.0885	0.00200	mg/kg	0.100	0.00344	85.1	70-130			
1,3,5-Trimethylbenzene	0.134	0.00200	"	0.100	0.0198	114	70-130			
Benzene	0.0881	0.00200	"	0.100	ND	88.1	70-130			
Ethylbenzene	0.0875	0.00200	"	0.100	0.000800	86.7	70-130			
Naphthalene	0.0830	0.0100	"	0.100	0.00368	79.3	70-130			
Toluene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
o-Xylene	0.0915	0.00200	"	0.100	0.00142	90.1	70-130			
m,p-Xylene	0.177	0.00400	"	0.200	0.00358	86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2B2404 - EPA 5030 (soil)

Matrix Spike Dup (B2B2404-MSD1)	Source: Y202499-01			Prepared: 02/24/2022 Analyzed: 02/26/2022						
1,2,4-Trimethylbenzene	0.0786	0.00200	mg/kg	0.100	0.00344	75.2	70-130	11.8	20	
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100	0.0198	93.6	70-130	16.4	20	
Benzene	0.0829	0.00200	"	0.100	ND	82.9	70-130	6.08	20	
Ethylbenzene	0.0818	0.00200	"	0.100	0.000800	81.0	70-130	6.76	20	
Naphthalene	0.0691	0.0100	"	0.100	0.00368	65.4	70-130	18.2	20	QM-07
Toluene	0.0790	0.00200	"	0.100	ND	79.0	70-130	6.49	20	
o-Xylene	0.0859	0.00200	"	0.100	0.00142	84.5	70-130	6.29	20	
m,p-Xylene	0.163	0.00400	"	0.200	0.00358	79.5	70-130	8.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		115	70-130			

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Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L601980 - 3550B**

<b>MSD (L 94830-MSD-L601980)</b>		<b>Source: 94830</b>			Prepared: 02/28/2022 Analyzed: 02/28/2022					
Naphthalene	0.086	0.000484	mg/Kg	0.164	<0.000484	52.4	30-130	4.1	30	
1-Methylnaphthalene	0.0837	0.000364	"	0.164	<0.000364	51	30-130	4.6	30	
2-Methylnaphthalene	0.0827	0.000645	"	0.164	<0.000645	50.4	30-130	4	30	
Pyrene	0.103	0.000643	"	0.164	<0.000643	62.8	30-130	1.9	30	
Acenaphthene	0.0759	0.000304	"	0.164	<0.000304	46.2	30-130	6.8	30	
Anthracene	0.0878	0.000334	"	0.164	<0.000334	53.5	30-130	6.2	30	
Benzo(a)anthracene	0.0982	0.000493	"	0.164	<0.000493	59.8	30-130	0.3	30	
Benzo(a)pyrene	0.107	0.000468	"	0.164	<0.000468	65.2	30-130	3.6	30	
Indeno(1,2,3-cd)pyrene	0.0793	0.000627	"	0.164	<0.000627	48.3	30-130	10	30	
Fluorene	0.0853	0.000286	"	0.164	<0.000286	52	30-130	6.5	30	
Fluoranthene	0.101	0.000394	"	0.164	<0.000394	61.5	30-130	0.9	30	
Dibenz(a,h)anthracene	0.101	0.000614	"	0.164	<0.000614	61.5	30-130	14	30	
Chrysene	0.103	0.000624	"	0.164	<0.000624	62.8	30-130	0.9	30	
Benzo(k)fluoranthene	0.0948	0.000437	"	0.164	<0.000437	57.8	30-130	11.1	30	
Benzo(b)fluoranthene	0.0904	0.000585	"	0.164	<0.000585	55.1	30-130	4.3	30	
Surrogate: Nitrobenzene-d5	50.6		"	0.328	161	50.6	29-110			
Surrogate: 2-Fluorobiphenyl	58.5		"	0.328	180	58.5	33-115			
Surrogate: 4-Terphenyl-d14	73.7		"	0.328	209	73.7	33-122			

<b>MS (L 94830-MS-L601980)</b>		<b>Source: 94830</b>			Prepared: 02/28/2022 Analyzed: 02/28/2022					
Benzo(k)fluoranthene	0.106	0.000437	mg/Kg	0.163	<0.000437	65	30-130			
1-Methylnaphthalene	0.0877	0.000364	"	0.163	<0.000364	53.8	30-130			
Pyrene	0.101	0.000643	"	0.163	<0.000643	61.9	30-130			
Naphthalene	0.0896	0.000484	"	0.163	<0.000484	54.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0717	0.000627	"	0.163	<0.000627	43.9	30-130			
Fluorene	0.0911	0.000286	"	0.163	<0.000286	55.8	30-130			
Fluoranthene	0.1	0.000394	"	0.163	<0.000394	61.3	30-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L601980 - 3550B**

<b>MS (L 94830-MS-L601980)</b>		<b>Source: 94830</b>			Prepared: 02/28/2022 Analyzed: 02/28/2022					
Chrysene	0.104	0.000624	mg/Kg	0.163	<0.000624	63.8	30-130			
Benzo(b)fluoranthene	0.0944	0.000585	"	0.163	<0.000585	57.9	30-130			
Benzo(a)pyrene	0.111	0.000468	"	0.163	<0.000468	68	30-130			
Benzo(a)anthracene	0.0985	0.000493	"	0.163	<0.000493	60.4	30-130			
Anthracene	0.0935	0.000334	"	0.163	<0.000334	57.3	30-130			
Acenaphthene	0.0813	0.000304	"	0.163	<0.000304	49.8	30-130			
2-Methylnaphthalene	0.0861	0.000645	"	0.163	<0.000645	52.8	30-130			
Dibenz(a,h)anthracene	0.0877	0.000614	"	0.163	<0.000614	53.8	30-130			
Surrogate: Nitrobenzene-d5	54.2		"	0.326	161	54.2	29-110			
Surrogate: 2-Fluorobiphenyl	62.5		"	0.326	180	62.5	33-115			
Surrogate: 4-Terphenyl-d14	76.6		"	0.326	209	76.6	33-122			

<b>LCS (LCS-L601980)</b>		Prepared: 02/28/2022 Analyzed: 02/28/2022								
2-Methylnaphthalene	0.102	0.000645	mg/Kg	0.167		61	30-130			
Fluorene	0.0938	0.000286	"	0.167		56.1	30-130			
Benzo(b)fluoranthene	0.105	0.000585	"	0.167		62.8	30-130			
Benzo(a)pyrene	0.116	0.000468	"	0.167		69.4	30-130			
Fluoranthene	0.099	0.000394	"	0.167		59.2	30-130			
Pyrene	0.101	0.000643	"	0.167		60.4	30-130			
Naphthalene	0.099	0.000484	"	0.167		59.2	30-130			
Dibenz(a,h)anthracene	0.11	0.000614	"	0.167		65.8	30-130			
Chrysene	0.115	0.000624	"	0.167		68.8	30-130			
1-Methylnaphthalene	0.108	0.000364	"	0.167		64.6	30-130			
Benzo(a)anthracene	0.108	0.000493	"	0.167		64.6	30-130			
Anthracene	0.1	0.000334	"	0.167		59.8	30-130			
Acenaphthene	0.0876	0.000304	"	0.167		52.4	30-130			
Benzo(k)fluoranthene	0.107	0.000437	"	0.167		64	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L601980 - 3550B**

**LCS (LCS-L601980)**

Prepared: 02/28/2022 Analyzed: 02/28/2022

Indeno(1,2,3-cd)pyrene	0.0857	0.000627	mg/Kg	0.167		51.3	30-130			
Surrogate: 2-Fluorobiphenyl	74.4		"	0.333		74.4	33-115			
Surrogate: Nitrobenzene-d5	57.3		"	0.333		57.3	29-110			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			

**LRB (LRB-L601980)**

Prepared: 02/28/2022 Analyzed: 02/28/2022

Indeno(1,2,3-cd)pyrene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	57.3		"	0.333		57.3	29-110			
Surrogate: 2-Fluorobiphenyl	72		"	0.333		72	33-115			
Surrogate: 4-Terphenyl-d14	82.8		"	0.333		82.8	33-122			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L601932 - 3050B**

<b>MSD (L 94709-MSD-L601932)</b>		<b>Source: 94709</b>			Prepared: 02/28/2022 Analyzed: 03/05/2022					
Cadmium	0.443	0.0259	mg/Kg	0.475	<0.0259	93	75-125	5.2	80	
Zinc	24.2	0.534	"	23.7	4.16	84	75-125	1.2	80	
Silver	0.481	0.0067	"	0.475	<0.0067	101	75-125	3.8	80	
Selenium	4.7	0.103	"	4.75	<0.103	99	75-125	4.1	80	
Nickel	2.76	0.0633	"	2.37	1.15	68	75-125	5.2	80	*
Copper	2.72	0.0806	"	2.37	1.11	68	75-125	0.3	80	*
Barium	10.2	0.042	"	4.75	12.6	NR	75-125	5.3	80	*
Arsenic	2.56	0.0855	"	2.37	0.371	92	75-125	0.3	80	
Lead	2.89	0.031	"	2.37	1.58	55	75-125	0.3	80	*

<b>MS (L 94709-MS-L601932)</b>		<b>Source: 94709</b>			Prepared: 02/28/2022 Analyzed: 03/05/2022					
Nickel	2.91	0.0633	mg/Kg	2.3	1.15	76	75-125			
Arsenic	2.57	0.0855	"	2.3	0.371	96	75-125			
Barium	9.67	0.042	"	4.6	12.6	NR	75-125			*
Cadmium	0.467	0.0259	"	0.46	<0.0259	101	75-125			
Selenium	4.9	0.103	"	4.6	<0.103	106	75-125			
Silver	0.463	0.0067	"	0.46	<0.0067	101	75-125			
Zinc	23.9	0.534	"	23	4.16	86	75-125			
Copper	2.71	0.0806	"	2.3	1.11	70	75-125			*
Lead	2.88	0.031	"	2.3	1.58	56	75-125			*

<b>LCS (LCS-L601932)</b>		Prepared: 02/28/2022 Analyzed: 03/05/2022								
Barium	4.53	0.042	mg/Kg	5		91	80-120			
Zinc	23.4	0.534	"	25		94	80-120			
Silver	0.477	0.0067	"	0.5		95	80-120			
Selenium	4.66	0.103	"	5		93	80-120			
Nickel	2.57	0.0633	"	2.5		103	80-120			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank  
 Battery

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L601932 - 3050B**

**LCS (LCS-L601932)**

Prepared: 02/28/2022 Analyzed: 03/05/2022

Lead	2.33	0.031	mg/Kg	2.5		93	80-120			
Copper	2.42	0.0806	"	2.5		97	80-120			
Cadmium	0.446	0.0259	"	0.5		89	80-120			
Arsenic	2.5	0.0855	"	2.5		100	80-120			

**LRB (LRB-L601932)**

Prepared: 02/28/2022 Analyzed: 03/05/2022

Zinc	ND	2.5	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Amigo 1, Fuego C1-19 Tank Battery

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L602872 -</b>										
<b>DUP (L 94829-DUP)</b>		<b>Source: 94829</b>			Prepared: Analyzed: 03/04/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500		-	0	20	
<b>MS (L 94829-MS)</b>		<b>Source: 94829</b>			Prepared: Analyzed: 03/04/2022					
Chromium, Hexavalent	0.519	0.244	mg/Kg	7.7	<0.244	7	75-125			*
<b>LCS (LCS)</b>		Prepared: Analyzed: 03/04/2022								
Chromium, Hexavalent	7.4	0.244	mg/Kg	8		93	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 03/04/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Noble - Amigo 1, Fuego C1-19 Tank  
Battery

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**Notes and Definitions**

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



*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.*

---

Jordan A. Merrill, Project Manager



March 14, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Fuego C #1-19

Project Number - [none]

Attached are your analytical results for Noble - Fuego C #1-19 received by Origins Laboratory, Inc. February 23, 2022. This project is associated with Origins project number Y202517-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Fuego C #1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-03@3'	Y202517-01	Soil	February 23, 2022 12:15	02/23/2022 15:39

On 3/3/2022, Grace Congdon from Eagle contacted Jordan Bynon via email regarding Fuego C #1-19 requesting that Table 915 metals be added and changed on chain of custody.

Requested modifications to the chain of custody were made by Jordan Bynon on 3/3/2022.

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: 1202517

Client: Eagle

Client Project ID: Fuego 1-19

Checklist Completed by: AKH

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/25/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 2-6 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) mm

Date/Time Reviewed 2-24-12

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**FL-SS-03@3'**

**2/23/2022 12:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202517-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.11		0.0993	mg/L	1	B2B2503	02/25/2022	02/28/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2B2401	02/24/2022	03/01/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2B2404	02/24/2022	02/26/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**FL-SS-03@3'**

**2/23/2022 12:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202517-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	95.4 %		70-130			B2B24 04	02/24/2022	02/26/2022	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	9.18		0.499	meq/L	10	[CALC]	02/25/2022	03/02/2022	
Magnesium	6.11		0.823	"	"	"	"	"	
Sodium	12.3		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.186	0.00364	0.0067	mg/Kg	10	L601848	02/28/2022	02/28/2022	
2-Methylnaphthalene	0.323	0.00645	0.0067	"	"	"	"	"	
Acenaphthene	1.6	0.00304	0.0067	"	"	"	"	"	
Anthracene	2.46	0.00334	0.0067	"	"	"	"	"	
Benzo(a)anthracene	2.8	0.00493	0.0067	"	"	"	"	"	
Benzo(a)pyrene	1.89	0.00468	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	2.42	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	1.03	0.00437	0.0067	"	"	"	"	"	
Chrysene	2.43	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.534	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	8.73	0.0394	0.067	"	100	"	"	"	
Fluorene	1.86	0.00286	0.0067	"	10	"	"	"	
Indeno(1,2,3-cd)pyrene	1.26	0.00627	0.0067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**FL-SS-03@3'**

**2/23/2022 12:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y202517-01 (Soil)**

**PAH by 8270D SIM**

Naphthalene	1.1	0.00484	0.0067	mg/Kg	10	L601848	02/28/2022	02/28/2022	
Pyrene	6.79	0.0643	0.067	"	100	"	"	"	

Surrogate: 2-Fluorobiphenyl	64.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	80.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.7 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.83			pH Units	1	B2B2504	02/25/2022	02/26/2022	
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**SAR by 20B Saturated Paste**

SAR	4.44			SAR	1	B2B2502	02/25/2022	03/02/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.25		0.00500	mmhos/cm	1	B2B2505	02/25/2022	02/26/2022	
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**Total Metals by 6020B**

Arsenic	2.06	0.0855	0.25	mg/Kg	5	L603103	03/04/2022	03/09/2022	
Barium	132	0.042	0.25	"	"	"	"	"	
Cadmium	0.171	0.0259	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Fuego C #1-19

**FL-SS-03@3'**

**2/23/2022 12:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y202517-01 (Soil)**

**Total Metals by 6020B**

Copper	11.7	0.0806	0.25	mg/Kg	5	L603103	03/04/2022	03/09/2022	
Lead	10.7	0.031	0.25	"	"	"	"	"	
Nickel	10.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.379	0.103	0.25	"	"	"	"	"	
Silver	0.0521	0.0067	0.25	"	"	"	"	"	J
Zinc	48.2	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.497	1.02	mg/Kg	2	L604118	02/23/2022	03/10/2022	
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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2401 - EPA 3550B</b>										
<b>Blank (B2B2401-BLK1)</b>										
					Prepared: 02/24/2022 Analyzed: 03/01/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2401 - EPA 3550B**

**LCS (B2B2401-BS1)**

Prepared: 02/24/2022 Analyzed: 03/01/2022

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	887	200	"	1000		88.7	70-130			
Surrogate: o-Terphenyl	60		"	49.8		120	50-150			

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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2401 - EPA 3550B**

<b>Matrix Spike (B2B2401-MS1)</b>	<b>Source: Y202499-02</b>			Prepared: 02/24/2022 Analyzed: 03/01/2022						
Diesel (C10-C28)	850	50.0	mg/kg	1000	ND	85.0	70-130			
Residual Range Organics (C28-C40)	719	200	"	1000	ND	71.9	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.0	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2401 - EPA 3550B**

<b>Matrix Spike Dup (B2B2401-MSD1)</b>	<b>Source: Y202499-02</b>			<b>Prepared: 02/24/2022 Analyzed: 03/01/2022</b>						
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130	22.7	35	
Residual Range Organics (C28-C40)	876	200	"	1000	ND	87.6	70-130	19.7	35	
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2404 - EPA 5030 (soil)**

**Blank (B2B2404-BLK1)**

Prepared: 02/24/2022 Analyzed: 02/26/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2404 - EPA 5030 (soil)**

**LCS (B2B2404-BS1)**

Prepared: 02/24/2022 Analyzed: 02/26/2022

1,2,4-Trimethylbenzene	0.0863	0.00200	mg/kg	0.100		86.3	70-130			
1,3,5-Trimethylbenzene	0.0877	0.00200	"	0.100		87.7	70-130			
Benzene	0.0884	0.00200	"	0.100		88.4	70-130			
Ethylbenzene	0.0850	0.00200	"	0.100		85.0	70-130			
Naphthalene	0.0883	0.0100	"	0.100		88.3	70-130			
Toluene	0.0839	0.00200	"	0.100		83.9	70-130			
o-Xylene	0.0865	0.00200	"	0.100		86.5	70-130			
m,p-Xylene	0.170	0.00400	"	0.200		85.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2B2404 - EPA 5030 (soil)

Matrix Spike (B2B2404-MS1)	Source: Y202499-01			Prepared: 02/24/2022 Analyzed: 02/26/2022						
1,2,4-Trimethylbenzene	0.0885	0.00200	mg/kg	0.100	0.00344	85.1	70-130			
1,3,5-Trimethylbenzene	0.134	0.00200	"	0.100	0.0198	114	70-130			
Benzene	0.0881	0.00200	"	0.100	ND	88.1	70-130			
Ethylbenzene	0.0875	0.00200	"	0.100	0.000800	86.7	70-130			
Naphthalene	0.0830	0.0100	"	0.100	0.00368	79.3	70-130			
Toluene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
o-Xylene	0.0915	0.00200	"	0.100	0.00142	90.1	70-130			
m,p-Xylene	0.177	0.00400	"	0.200	0.00358	86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2B2404 - EPA 5030 (soil)

Matrix Spike Dup (B2B2404-MSD1)	Source: Y202499-01			Prepared: 02/24/2022 Analyzed: 02/26/2022						
1,2,4-Trimethylbenzene	0.0786	0.00200	mg/kg	0.100	0.00344	75.2	70-130	11.8	20	
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100	0.0198	93.6	70-130	16.4	20	
Benzene	0.0829	0.00200	"	0.100	ND	82.9	70-130	6.08	20	
Ethylbenzene	0.0818	0.00200	"	0.100	0.000800	81.0	70-130	6.76	20	
Naphthalene	0.0691	0.0100	"	0.100	0.00368	65.4	70-130	18.2	20	QM-07
Toluene	0.0790	0.00200	"	0.100	ND	79.0	70-130	6.49	20	
o-Xylene	0.0859	0.00200	"	0.100	0.00142	84.5	70-130	6.29	20	
m,p-Xylene	0.163	0.00400	"	0.200	0.00358	79.5	70-130	8.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		115	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2504 - NO PREP**

**Duplicate (B2B2504-DUP1)**

**Source: Y202506-17**

Prepared: 02/25/2022 Analyzed: 02/26/2022

pH	7.07		pH Units		7.23			2.24	25	
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**Batch B2B2505 - NO PREP**

**Blank (B2B2505-BLK1)**

Prepared: 02/25/2022 Analyzed: 02/26/2022

Specific Conductance (EC)	0.000800	0.00500	mmhos/cm							
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**Duplicate (B2B2505-DUP1)**

**Source: Y202506-17**

Prepared: 02/25/2022 Analyzed: 02/26/2022

Specific Conductance (EC)	0.274	0.00500	mmhos/cm		0.296			7.87	25	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L603103 - 3050B</b>										
<b>MSD (L 94623-MSD-L603103)</b>			<b>Source: Y202517-01</b>			Prepared: 03/04/2022 Analyzed: 03/09/2022				
Lead	13.1	0.031	mg/Kg	2.3	10.7	104	75-125	5.9	80	
Zinc	71.2	0.534	"	23	48.2	100	75-125	8.8	80	
Silver	0.504	0.0067	"	0.46	0.0521	98	75-125	13.5	80	
Copper	13.9	0.0806	"	2.3	11.7	96	75-125	8.2	80	
Cadmium	0.614	0.0259	"	0.46	0.171	96	75-125	10.2	80	
Barium	128	0.042	"	4.6	132	NR	75-125	24	80	*
Arsenic	3.82	0.0855	"	2.3	2.06	77	75-125	6.8	80	
Selenium	3.44	0.103	"	4.6	0.379	67	75-125	8.6	80	*
Nickel	13.5	0.0633	"	2.3	10.7	122	75-125	5.7	80	
<b>MS (L 94623-MS-L603103)</b>			<b>Source: Y202517-01</b>			Prepared: 03/04/2022 Analyzed: 03/09/2022				
Selenium	3.75	0.103	mg/Kg	4.9	0.379	69	75-125			*
Silver	0.577	0.0067	"	0.49	0.0521	107	75-125			
Nickel	14.3	0.0633	"	2.45	10.7	147	75-125			*
Lead	13.9	0.031	"	2.45	10.7	131	75-125			*
Copper	15.1	0.0806	"	2.45	11.7	139	75-125			*
Cadmium	0.68	0.0259	"	0.49	0.171	104	75-125			
Barium	163	0.042	"	4.9	132	633	75-125			*
Arsenic	4.09	0.0855	"	2.45	2.06	83	75-125			
Zinc	77.8	0.534	"	24.5	48.2	121	75-125			
<b>LCS (LCS-L603103)</b>			Prepared: 03/04/2022 Analyzed: 03/09/2022							
Arsenic	2.38	0.0855	mg/Kg	2.5		95	80-120			
Barium	5.12	0.042	"	5		102	80-120			
Cadmium	0.473	0.0259	"	0.5		95	80-120			
Copper	2.37	0.0806	"	2.5		95	80-120			
Lead	2.5	0.031	"	2.5		100	80-120			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L603103 - 3050B**

**LCS (LCS-L603103)**

Prepared: 03/04/2022 Analyzed: 03/09/2022

Nickel	2.45	0.0633	mg/Kg	2.5		98	80-120			
Silver	0.499	0.0067	"	0.5		100	80-120			
Zinc	22.7	0.534	"	25		91	80-120			
Selenium	4.53	0.103	"	5		91	80-120			

**LRB (LRB-L603103)**

Prepared: 03/04/2022 Analyzed: 03/09/2022

Silver	ND	0.25	mg/Kg				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	0.0638	0.25	"				-			J
Arsenic	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L604118 -</b>										
<b>DUP (L 86079-DUP)</b>			<b>Source: 86079</b>			Prepared: Analyzed: 03/10/2022				
Chromium, Hexavalent	ND	0.244	mg/Kg		86079		-	0	20	
<b>MS (L 86079-MS)</b>			<b>Source: 86079</b>			Prepared: Analyzed: 03/10/2022				
Chromium, Hexavalent	4.51	0.244	mg/Kg	7.71	86079	58	75-125			*
<b>LCS (LCS)</b>						Prepared: Analyzed: 03/10/2022				
Chromium, Hexavalent	6.91	0.244	mg/Kg	8		86	75-125			
<b>LRB (LRB)</b>						Prepared: Analyzed: 03/10/2022				
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L601848 - 3550B

MSD (L 97515-MSD-L601848)		Source: 97515			Prepared: 02/28/2022 Analyzed: 02/28/2022					
Dibenz(a,h)anthracene	0.111	0.000614	mg/Kg	0.166	0.00267	65.2	30-130	1.8	30	
Fluoranthene	0.051	0.000394	"	0.166	0.00164	29.7	30-130	10.2	30	*
Fluorene	0.101	0.000286	"	0.166	0.00222	59.5	30-130	6.6	30	
Indeno(1,2,3-cd)pyrene	0.111	0.000627	"	0.166	0.00254	65.3	30-130	6.5	30	
Naphthalene	0.0917	0.000484	"	0.166	0.00213	53.9	30-130	3.1	30	
Pyrene	0.105	0.000643	"	0.166	0.00237	61.8	30-130	8.2	30	
Benzo(a)pyrene	0.113	0.000468	"	0.166	0.00288	66.3	30-130	7.6	30	
2-Methylnaphthalene	0.093	0.000645	"	0.166	0.00208	54.7	30-130	4.6	30	
1-Methylnaphthalene	0.0932	0.000364	"	0.166	0.00211	54.8	30-130	4.7	30	
Benzo(k)fluoranthene	0.0914	0.000437	"	0.166	0.0021	53.7	30-130	0.3	30	
Chrysene	0.101	0.000624	"	0.166	0.00208	59.5	30-130	3.8	30	
Acenaphthene	0.0975	0.000304	"	0.166	0.00192	57.5	30-130	4.5	30	
Anthracene	0.1	0.000334	"	0.166	0.0021	58.9	30-130	5.8	30	
Benzo(a)anthracene	0.101	0.000493	"	0.166	0.00239	59.4	30-130	6.6	30	
Benzo(b)fluoranthene	0.106	0.000585	"	0.166	0.002	62.6	30-130	2.7	30	
Surrogate: Nitrobenzene-d5	58.6		"	0.331	188	58.6	29-110			
Surrogate: 2-Fluorobiphenyl	64.3		"	0.331	205	64.3	33-115			
Surrogate: 4-Terphenyl-d14	67		"	0.331	216	67	33-122			

MS (L 97515-MS-L601848)		Source: 97515			Prepared: 02/28/2022 Analyzed: 02/28/2022					
Chrysene	0.105	0.000624	mg/Kg	0.166	0.00208	62	30-130			
Naphthalene	0.0946	0.000484	"	0.166	0.00213	55.7	30-130			
Indeno(1,2,3-cd)pyrene	0.104	0.000627	"	0.166	0.00254	61.1	30-130			
Fluorene	0.108	0.000286	"	0.166	0.00222	63.7	30-130			
Benzo(k)fluoranthene	0.0917	0.000437	"	0.166	0.0021	53.9	30-130			
Dibenz(a,h)anthracene	0.109	0.000614	"	0.166	0.00267	64	30-130			
Pyrene	0.114	0.000643	"	0.166	0.00237	67.2	30-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L601848 - 3550B**

MS (L 97515-MS-L601848)	Source: 97515			Prepared: 02/28/2022 Analyzed: 02/28/2022						
Benzo(b)fluoranthene	0.109	0.000585	mg/Kg	0.166	0.002	64.4	30-130			
Fluoranthene	0.0565	0.000394	"	0.166	0.00164	33	30-130			
1-Methylnaphthalene	0.0977	0.000364	"	0.166	0.00211	57.5	30-130			
2-Methylnaphthalene	0.0974	0.000645	"	0.166	0.00208	57.4	30-130			
Acenaphthene	0.102	0.000304	"	0.166	0.00192	60.2	30-130			
Anthracene	0.106	0.000334	"	0.166	0.0021	62.5	30-130			
Benzo(a)anthracene	0.108	0.000493	"	0.166	0.00239	63.6	30-130			
Benzo(a)pyrene	0.122	0.000468	"	0.166	0.00288	71.7	30-130			
Surrogate: Nitrobenzene-d5	59.6		"	0.332	188	59.6	29-110			
Surrogate: 2-Fluorobiphenyl	66.2		"	0.332	205	66.2	33-115			
Surrogate: 4-Terphenyl-d14	71.3		"	0.332	216	71.3	33-122			

LCS (LCS-L601848)	Prepared: 02/28/2022 Analyzed: 02/28/2022									
Fluoranthene	0.124	0.000394	mg/Kg	0.167		74.2	30-130			
Benzo(k)fluoranthene	0.12	0.000437	"	0.167		71.8	30-130			
Naphthalene	0.102	0.000484	"	0.167		61	30-130			
Pyrene	0.124	0.000643	"	0.167		74.2	30-130			
Fluorene	0.117	0.000286	"	0.167		70	30-130			
Dibenz(a,h)anthracene	0.147	0.000614	"	0.167		88	30-130			
Chrysene	0.12	0.000624	"	0.167		71.8	30-130			
1-Methylnaphthalene	0.106	0.000364	"	0.167		63.4	30-130			
Benzo(a)pyrene	0.132	0.000468	"	0.167		79	30-130			
Benzo(a)anthracene	0.123	0.000493	"	0.167		73.6	30-130			
Anthracene	0.117	0.000334	"	0.167		70	30-130			
Acenaphthene	0.11	0.000304	"	0.167		65.8	30-130			
2-Methylnaphthalene	0.106	0.000645	"	0.167		63.4	30-130			
Indeno(1,2,3-cd)pyrene	0.142	0.000627	"	0.167		85	30-130			

Origins Laboratory, Inc.



*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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L601848 - 3550B**

**LCS (LCS-L601848)**

Prepared: 02/28/2022 Analyzed: 02/28/2022

Benzo(b)fluoranthene	0.135	0.000585	mg/Kg	0.167		80.8	30-130			
Surrogate: Nitrobenzene-d5	65.1		"	0.333		65.1	29-110			
Surrogate: 4-Terphenyl-d14	76.5		"	0.333		76.5	33-122			
Surrogate: 2-Fluorobiphenyl	70.8		"	0.333		70.8	33-115			

**LRB (LRB-L601848)**

Prepared: 02/28/2022 Analyzed: 02/28/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	64.8		"	0.333		64.8	29-110			
Surrogate: 4-Terphenyl-d14	72		"	0.333		72	33-122			
Surrogate: 2-Fluorobiphenyl	69		"	0.333		69	33-115			

Origins Laboratory, Inc.



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.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Fuego C #1-19

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### Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



*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.*



March 31, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Fuego C #1-19

Project Number - [none]

Attached are your analytical results for Noble - Fuego C #1-19 received by Origins Laboratory, Inc. March 18, 2022. This project is associated with Origins project number Y203481-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Fuego C #1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@1'	Y203481-01	Soil	February 23, 2022 12:00	03/18/2022 16:23

Origins Laboratory, Inc.



*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.*



Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

Origins Laboratory F-012207-01-R1  
Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: Y203481 Client: Eagle  
 Client Project ID: Fuego C 1-19

Checklist Completed by: SG Shipped Via: HD  
 Date/time completed: 3/21/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply)  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1, 3.4 °C  °C  °C  °C (Describe)  
 Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: JB (Project Manager) Date/Time Reviewed: 3-22-12

Origins Laboratory, Inc.

*JB*

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.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Fuego C #1-19

**Background-01@1'**  
**2/23/2022 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Y203481-01 (Soil)**  
**Waypoint Analytical, LLC.**

**Total Metals by 6020B**

Arsenic	<b>3.03</b>	0.25	mg/Kg	5	L606626		03/23/2022	03/25/2022	
Barium	<b>139</b>	0.25	"	"	"		"	"	
Selenium	<b>0.752</b>	0.25	"	"	"		"	"	

Origins Laboratory, Inc.



*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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Fuego C #1-19

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L606626 - 3050B</b>										
<b>MSD (L 93978-MSD-L606626)</b>			<b>Source: 93978</b>			Prepared: 03/23/2022 Analyzed: 03/29/2022				
Selenium	4.83	0.103	mg/Kg dry	4.78	1.06	79	75-125	5.5	80	
Barium	72.6	0.042	"	4.78	59.9	266	75-125	11.2	80	*
Arsenic	2.33	0.0855	"	2.39	0.535	75	75-125	9.4	80	
<b>MS (L 93978-MS-L606626)</b>			<b>Source: 93978</b>			Prepared: 03/23/2022 Analyzed: 03/29/2022				
Selenium	4.57	0.103	mg/Kg dry	4.64	1.06	76	75-125			
Barium	64.9	0.042	"	4.64	59.9	108	75-125			
Arsenic	2.12	0.0855	"	2.32	0.535	68	75-125			*
<b>LCS (LCS-L606626)</b>						Prepared: 03/23/2022 Analyzed: 03/29/2022				
Selenium	4.97	0.103	mg/Kg	5		99	80-120			
Barium	4.81	0.042	"	5		96	80-120			
Arsenic	2.39	0.0855	"	2.5		96	80-120			
<b>LRB (LRB-L606626)</b>						Prepared: 03/23/2022 Analyzed: 03/29/2022				
Selenium	ND	0.25	mg/Kg				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			

Origins Laboratory, Inc.



*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.*

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Fuego C #1-19

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**Notes and Definitions**

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*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.*

**APPENDIX B**

**LABORATORY DOCUMENTATION**

April 14, 2022

**Fremont Environmental**

**Paul Henehan**

**8305 6th St, PO Box 1289**

**Wellington CO 80549**

**Project Name - Noble - Fuego**

**Project Number - C022-022**

Attached are your analytical results for Noble - Fuego received by Origins Laboratory, Inc. March 28, 2022. This project is associated with Origins project number Y203714-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-022  
Project: Noble - Fuego

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 6FT	Y203714-01	Soil	March 25, 2022 0:00	03/28/2022 14:30
MW-2 5FT	Y203714-02	Soil	March 25, 2022 0:00	03/28/2022 14:30
MW-3 5FT	Y203714-03	Soil	March 25, 2022 0:00	03/28/2022 14:30
MW-4 5FT	Y203714-04	Soil	March 25, 2022 0:00	03/28/2022 14:30
MW-5 5FT	Y203714-05	Soil	March 25, 2022 0:00	03/28/2022 14:30
BG-1 3FT	Y203714-06	Soil	March 25, 2022 0:00	03/28/2022 14:30
MW-1	Y203714-07	Water	March 25, 2022 0:00	03/28/2022 14:30

Origins Laboratory, Inc.



*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  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y20374

Client: Fremont/Noble

Client Project ID: Fuego

Checklist Completed by: JB

Shipped Via: HD  
(USPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3-29-22

Airbill #: VITA

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 15.2 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		no sample times
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			not checked
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JB

Date/Time Reviewed 3/30/22

Origins Laboratory, Inc.



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  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-1 6FT**  
**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203714-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2901	03/29/2022	04/08/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	87.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C3024	03/30/2022	04/02/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130			"	"	"	

**PAH by 8270D SIM**

Origins Laboratory, Inc.



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  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-1 6FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203714-01 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000953	0.000364	0.00067	mg/Kg	1	L608753	04/05/2022	04/06/2022	
2-Methylnaphthalene	0.000913	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.2 %		29-110			"	"	"	

Origins Laboratory, Inc.



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  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-1 6FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203714-01 (Soil)**

**Total Metals by 6020B**

Arsenic	5.15	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Barium	134	0.042	0.25	"	"	"	"	"	
Cadmium	0.142	0.0259	0.25	"	"	"	"	"	J
Copper	16.8	0.0806	0.25	"	"	"	"	"	
Lead	13.3	0.031	0.25	"	"	"	"	"	
Nickel	13	0.0633	0.25	"	"	"	"	"	
Selenium	0.486	0.103	0.25	"	"	"	"	"	
Silver	0.0578	0.0067	0.25	"	"	"	"	"	J
Zinc	57.9	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L609117	03/25/2022	04/06/2022	
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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-2 5FT**  
**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203714-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.16		0.0999	mg/L	1	B2C2911	03/29/2022	03/30/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2901	03/29/2022	04/08/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C3024	03/30/2022	04/02/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-2 5FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203714-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.2 %		70-130			B2C30 24	03/30/2022	04/02/2022	
Surrogate: 4-Bromofluorobenzene	96.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	14.3		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	9.82		0.823	"	"	"	"	"	
Sodium	25.5		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L608753	04/05/2022	04/06/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	

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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-2 5FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203714-02 (Soil)**

**PAH by 8270D SIM**

Fluorene	0.00278	0.00143	0.00335	mg/Kg	5	L608753	04/05/2022	04/06/2022	J
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.4 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.75			pH Units	1	B2C2922	03/31/2022	04/01/2022	
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**SAR by 20B Saturated Paste**

SAR	7.36			SAR	1	B2C2912	03/29/2022	03/31/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.99		0.00500	mmhos/cm	1	B2C2918	03/30/2022	03/31/2022	
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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-3 5FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203714-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2901	03/29/2022	04/08/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	88.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C3024	03/30/2022	04/02/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			"	"	"	

**PAH by 8270D SIM**

Origins Laboratory, Inc.



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 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-3 5FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203714-03 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L608836	04/05/2022	04/05/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	66 %	29-110	"	"	"

Origins Laboratory, Inc.



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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-4 5FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203714-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2901	03/29/2022	04/08/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	92.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C3024	03/30/2022	04/02/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			"	"	"	

**PAH by 8270D SIM**

Origins Laboratory, Inc.



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 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-4 5FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203714-04 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L608836	04/05/2022	04/05/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	68.3 %	29-110	"	"	"

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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-5 5FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203714-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2901	03/29/2022	04/08/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	89.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C3024	03/30/2022	04/02/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %		70-130			"	"	"	

**PAH by 8270D SIM**

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 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-5 5FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203714-05 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000504	0.000364	0.00067	mg/Kg	1	L608836	04/05/2022	04/05/2022	J
2-Methylnaphthalene	0.000819	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000601	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.000517	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	50.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.4 %	29-110	"	"	"

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 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**BG-1 3FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203714-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.78		0.0989	mg/L	1	B2C2911	03/29/2022	03/30/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	22.7		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	18.3		0.823	"	"	"	"	"	
Sodium	36.6		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.82			pH Units	1	B2C2922	03/31/2022	04/01/2022	
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**SAR by 20B Saturated Paste**

SAR	8.07			SAR	1	B2C2912	03/29/2022	03/31/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	5.71		0.00500	mmhos/cm	1	B2C2918	03/30/2022	03/31/2022	
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**Total Metals by 6020B**

Arsenic	2.94	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Barium	118	0.042	0.25	"	"	"	"	"	
Cadmium	0.19	0.0259	0.25	"	"	"	"	"	J
Copper	13	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**BG-1 3FT**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203714-06 (Soil)**

**Total Metals by 6020B**

Lead	10.5	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	12.2	0.0633	0.25	"	"	"	"	"	
Selenium	0.536	0.103	0.25	"	"	"	"	"	
Silver	0.0486	0.0067	0.25	"	"	"	"	"	J
Zinc	53.7	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L609117	03/25/2022	04/06/2022	
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 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**MW-1**

**3/25/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203714-07 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B2C3110	03/31/2022	04/04/2022	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %		70-130			"	"	"	

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C2901 - EPA 3550B</b>										
<b>Blank (B2C2901-BLK1)</b>										
					Prepared: 03/29/2022 Analyzed: 04/07/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		94.8	50-150			

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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C2901 - EPA 3550B</b>										
<b>LCS (B2C2901-BS1)</b>										
					Prepared: 03/29/2022 Analyzed: 04/08/2022					
Diesel (C10-C28)	786	50.0	mg/kg	1000		78.6	70-130			
Residual Range Organics (C28-C40)	870	200	"	1000		87.0	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.6	50-150			

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 Project: Noble - Fuego

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C2901 - EPA 3550B**

<b>Matrix Spike (B2C2901-MS1)</b>	<b>Source: Y203691-01</b>			Prepared: 03/29/2022 Analyzed: 04/08/2022						
Diesel (C10-C28)	1590	50.0	mg/kg	1000	503	109	70-130			
Residual Range Organics (C28-C40)	874	200	"	1000	ND	87.4	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.2	50-150			

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 Project Number: C022-022  
 Project: Noble - Fuego

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C2901 - EPA 3550B</b>										
<b>Matrix Spike Dup (B2C2901-MSD1)</b>					<b>Source: Y203691-01</b>					Prepared: 03/29/2022 Analyzed: 04/08/2022
Diesel (C10-C28)	1830	50.0	mg/kg	1000	503	133	70-130	13.9	35	QM-07
Residual Range Organics (C28-C40)	959	200	"	1000	ND	95.9	70-130	9.33	35	
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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 Project: Noble - Fuego

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C3024 - EPA 5030 (soil)**

**Blank (B2C3024-BLK1)**

Prepared: 03/30/2022 Analyzed: 04/02/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	94.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.0		70-130			

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Paul Henehan  
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 Project: Noble - Fuego

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3024 - EPA 5030 (soil)

**LCS (B2C3024-BS1)**

Prepared: 03/30/2022 Analyzed: 04/02/2022

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.105	0.0100	"	0.100		105	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	70-130			

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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3024 - EPA 5030 (soil)

Matrix Spike (B2C3024-MS1)	Source: Y203681-01			Prepared: 03/30/2022 Analyzed: 04/02/2022						
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.108	0.00200	"	0.100	ND	108	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Naphthalene	0.102	0.0100	"	0.100	ND	102	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.213	0.00400	"	0.200	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C3024 - EPA 5030 (soil)

Matrix Spike Dup (B2C3024-MSD1)	Source: Y203681-01			Prepared: 03/30/2022 Analyzed: 04/02/2022						
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	6.95	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	7.17	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	6.25	20	
Ethylbenzene	0.0984	0.00200	"	0.100	ND	98.4	70-130	8.43	20	
Naphthalene	0.101	0.0100	"	0.100	ND	101	70-130	0.513	20	
Toluene	0.0968	0.00200	"	0.100	ND	96.8	70-130	7.59	20	
o-Xylene	0.0987	0.00200	"	0.100	ND	98.7	70-130	6.53	20	
m,p-Xylene	0.196	0.00400	"	0.200	ND	98.1	70-130	8.27	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C3110 - EPA 5030B (Water)**

**Blank (B2C3110-BLK1)**

Prepared: 03/31/2022 Analyzed: 04/04/2022

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	71		"	62.5	114		70-130			
Surrogate: Toluene-d8	60		"	62.5	95.9		70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5	113		70-130			

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Paul Henehan  
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 Project: Noble - Fuego

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C3110 - EPA 5030B (Water)**

**LCS (B2C3110-BS1)**

Prepared: 03/31/2022 Analyzed: 04/04/2022

1,2,4-Trimethylbenzene	53.6	2.00	ug/L	50.0		107	70-130			
1,3,5-Trimethylbenzene	54.2	2.00	"	50.0		108	70-130			
Benzene	49.5	1.00	"	50.0		99.0	70-130			
Ethylbenzene	53.0	1.00	"	50.0		106	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
Naphthalene	48.7	2.00	"	50.0		97.3	70-130			
o-Xylene	51.0	1.00	"	50.0		102	70-130			
Toluene	54.6	1.00	"	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

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 Project: Noble - Fuego

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C3110 - EPA 5030B (Water)**

<b>Matrix Spike (B2C3110-MS1)</b>	<b>Source: Y203674-01</b>			<b>Prepared: 03/31/2022 Analyzed: 04/04/2022</b>						
1,2,4-Trimethylbenzene	53.9	2.00	ug/L	50.0	ND	108	70-130			
1,3,5-Trimethylbenzene	55.4	2.00	"	50.0	ND	111	70-130			
Benzene	49.0	1.00	"	50.0	ND	98.1	70-130			
Ethylbenzene	52.3	1.00	"	50.0	ND	105	70-130			
m,p-Xylene	104	2.00	"	100	ND	104	70-130			
Naphthalene	49.2	2.00	"	50.0	ND	98.5	70-130			
o-Xylene	50.4	1.00	"	50.0	ND	101	70-130			
Toluene	54.9	1.00	"	50.0	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

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 Project: Noble - Fuego

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C3110 - EPA 5030B (Water)**

Matrix Spike Dup (B2C3110-MSD1)	Source: Y203674-01			Prepared: 03/31/2022 Analyzed: 04/04/2022						
1,2,4-Trimethylbenzene	51.2	2.00	ug/L	50.0	ND	102	70-130	5.25	20	
1,3,5-Trimethylbenzene	51.4	2.00	"	50.0	ND	103	70-130	7.38	20	
Benzene	47.7	1.00	"	50.0	ND	95.3	70-130	2.81	20	
Ethylbenzene	49.4	1.00	"	50.0	ND	98.8	70-130	5.71	20	
m,p-Xylene	96.1	2.00	"	100	ND	96.1	70-130	8.10	20	
Naphthalene	47.7	2.00	"	50.0	ND	95.3	70-130	3.22	20	
o-Xylene	49.1	1.00	"	50.0	ND	98.2	70-130	2.63	20	
Toluene	52.5	1.00	"	50.0	ND	105	70-130	4.60	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Paul Henehan  
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 Project: Noble - Fuego

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C2918 - NO PREP**

**Blank (B2C2918-BLK1)**

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

**Duplicate (B2C2918-DUP1)**

**Source: Y203711-07**

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.403 0.00500 mmhos/cm

0.467

14.8

25

**Batch B2C2922 - NO PREP**

**Duplicate (B2C2922-DUP1)**

**Source: Y203711-07**

Prepared: 03/31/2022 Analyzed: 04/01/2022

pH 8.86 pH Units

8.77

1.02

25

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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608836 - 3550B**

<b>MSD (L 97326-MSD-L608836)</b>	<b>Source: 97326</b>				<b>Prepared: 04/05/2022 Analyzed: 04/05/2022</b>						
Pyrene	0.112	0.000643	mg/Kg	0.166	97326	67.4	30-130	5.2	30		
Acenaphthene	0.0992	0.000304	"	0.166	97326	59.7	30-130	9.4	30		
1-Methylnaphthalene	0.0979	0.000364	"	0.166	97326	58.9	30-130	5	30		
2-Methylnaphthalene	0.0982	0.000645	"	0.166	97326	59.1	30-130	5.7	30		
Benzo(k)fluoranthene	0.0958	0.000437	"	0.166	97326	57.7	30-130	11.9	30		
Indeno(1,2,3-cd)pyrene	0.101	0.000627	"	0.166	97326	60.8	30-130	8.5	30		
Fluorene	0.108	0.000286	"	0.166	97326	65	30-130	8	30		
Fluoranthene	0.112	0.000394	"	0.166	97326	67.4	30-130	6	30		
Anthracene	0.106	0.000334	"	0.166	97326	63.8	30-130	8.1	30		
Dibenz(a,h)anthracene	0.101	0.000614	"	0.166	97326	60.8	30-130	9.4	30		
Chrysene	0.104	0.000624	"	0.166	97326	62.6	30-130	8.2	30		
Naphthalene	0.0971	0.000484	"	0.166	97326	58.4	30-130	6.8	30		
Benzo(a)anthracene	0.111	0.000493	"	0.166	97326	66.8	30-130	7.7	30		
Benzo(a)pyrene	0.102	0.000468	"	0.166	97326	61.4	30-130	7.5	30		
Benzo(b)fluoranthene	0.0945	0.000585	"	0.166	97326	56.9	30-130	4.3	30		
Surrogate: 2-Fluorobiphenyl	57		"	0.331	183	57	33-115				
Surrogate: 4-Terphenyl-d14	73.7		"	0.331	249	73.7	33-122				
Surrogate: Nitrobenzene-d5	63.4		"	0.331	190	63.4	29-110				

<b>MS (L 97326-MS-L608836)</b>	<b>Source: 97326</b>				<b>Prepared: 04/05/2022 Analyzed: 04/05/2022</b>						
Pyrene	0.118	0.000643	mg/Kg	0.164	97326	71.9	30-130				
Acenaphthene	0.109	0.000304	"	0.164	97326	66.4	30-130				
1-Methylnaphthalene	0.103	0.000364	"	0.164	97326	62.8	30-130				
Chrysene	0.113	0.000624	"	0.164	97326	68.9	30-130				
2-Methylnaphthalene	0.104	0.000645	"	0.164	97326	63.4	30-130				
Benzo(a)anthracene	0.12	0.000493	"	0.164	97326	73.1	30-130				
Fluoranthene	0.119	0.000394	"	0.164	97326	72.5	30-130				

Origins Laboratory, Inc.



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 Project Number: C022-022  
 Project: Noble - Fuego

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608836 - 3550B**

<b>MS (L 97326-MS-L608836)</b>		<b>Source: 97326</b>			Prepared: 04/05/2022 Analyzed: 04/05/2022					
Naphthalene	0.104	0.000484	mg/Kg	0.164	97326	63.4	30-130			
Anthracene	0.115	0.000334	"	0.164	97326	70.1	30-130			
Benzo(a)pyrene	0.11	0.000468	"	0.164	97326	67	30-130			
Benzo(b)fluoranthene	0.0987	0.000585	"	0.164	97326	60.1	30-130			
Benzo(k)fluoranthene	0.108	0.000437	"	0.164	97326	65.8	30-130			
Dibenz(a,h)anthracene	0.111	0.000614	"	0.164	97326	67.6	30-130			
Fluorene	0.117	0.000286	"	0.164	97326	71.3	30-130			
Indeno(1,2,3-cd)pyrene	0.11	0.000627	"	0.164	97326	67	30-130			
Surrogate: 4-Terphenyl-d14	75.9		"	0.328	249	75.9	33-122			
Surrogate: 2-Fluorobiphenyl	58.8		"	0.328	183	58.8	33-115			
Surrogate: Nitrobenzene-d5	68.2		"	0.328	190	68.2	29-110			

<b>LCS (LCS-L608836)</b>		Prepared: 04/05/2022 Analyzed: 04/05/2022								
Anthracene	0.123	0.000334	mg/Kg	0.167		73.6	30-130			
Fluoranthene	0.128	0.000394	"	0.167		76.6	30-130			
Benzo(k)fluoranthene	0.113	0.000437	"	0.167		67.6	30-130			
Chrysene	0.121	0.000624	"	0.167		72.4	30-130			
Dibenz(a,h)anthracene	0.11	0.000614	"	0.167		65.8	30-130			
Benzo(b)fluoranthene	0.0988	0.000585	"	0.167		59.1	30-130			
Fluorene	0.124	0.000286	"	0.167		74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.107	0.000627	"	0.167		64	30-130			
Naphthalene	0.111	0.000484	"	0.167		66.4	30-130			
Pyrene	0.128	0.000643	"	0.167		76.6	30-130			
Benzo(a)anthracene	0.128	0.000493	"	0.167		76.6	30-130			
Benzo(a)pyrene	0.116	0.000468	"	0.167		69.4	30-130			
2-Methylnaphthalene	0.111	0.000645	"	0.167		66.4	30-130			
1-Methylnaphthalene	0.11	0.000364	"	0.167		65.8	30-130			

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608836 - 3550B**

**LCS (LCS-L608836)**

Prepared: 04/05/2022 Analyzed: 04/05/2022

Acenaphthene	0.114	0.000304	mg/Kg	0.167		68.2	30-130			
Surrogate: Nitrobenzene-d5	75.6		"	0.333		75.6	29-110			
Surrogate: 4-Terphenyl-d14	85.8		"	0.333		85.8	33-122			
Surrogate: 2-Fluorobiphenyl	67.8		"	0.333		67.8	33-115			

**LRB (LRB-L608836)**

Prepared: 04/05/2022 Analyzed: 04/05/2022

Naphthalene	ND	0.00067	mg/Kg				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			
Surrogate: Nitrobenzene-d5	66.6		"	0.333		66.6	29-110			
Surrogate: 4-Terphenyl-d14	79.5		"	0.333		79.5	33-122			

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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608753 - 3550B**

<b>MSD (L 97341-MSD-L608753)</b>		<b>Source: 97341</b>			Prepared: 04/05/2022 Analyzed: 04/06/2022					
Acenaphthene	0.0832	0.000304	mg/Kg	0.165	97341	50.4	30-130	7.7	30	
Benzo(k)fluoranthene	0.0821	0.000437	"	0.165	97341	49.7	30-130	2.1	30	
Benzo(a)anthracene	0.0972	0.000493	"	0.165	97341	58.9	30-130	3.8	30	
Chrysene	0.0914	0.000624	"	0.165	97341	55.3	30-130	3.5	30	
Dibenz(a,h)anthracene	0.0775	0.000614	"	0.165	97341	46.9	30-130	0.2	30	
Fluoranthene	0.0943	0.000394	"	0.165	97341	57.1	30-130	2.6	30	
Indeno(1,2,3-cd)pyrene	0.0682	0.000627	"	0.165	97341	41.3	30-130	6.3	30	
Naphthalene	0.0809	0.000484	"	0.165	97341	49	30-130	7.3	30	
Pyrene	0.0926	0.000643	"	0.165	97341	56.1	30-130	4.6	30	
Benzo(a)pyrene	0.0873	0.000468	"	0.165	97341	52.9	30-130	5.6	30	
Fluorene	0.0889	0.000286	"	0.165	97341	53.8	30-130	6.4	30	
1-Methylnaphthalene	0.0783	0.000364	"	0.165	97341	47.4	30-130	9.3	30	
Benzo(b)fluoranthene	0.0745	0.000585	"	0.165	97341	45.1	30-130	4.2	30	
2-Methylnaphthalene	0.078	0.000645	"	0.165	97341	47.2	30-130	9.9	30	
Anthracene	0.0912	0.000334	"	0.165	97341	55.2	30-130	4	30	
Surrogate: Nitrobenzene-d5	62.1		"	0.33	220	62.1	29-110			
Surrogate: 4-Terphenyl-d14	70.3		"	0.33	254	70.3	33-122			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.33	215	61.5	33-115			

<b>MS (L 97341-MS-L608753)</b>		<b>Source: 97341</b>			Prepared: 04/05/2022 Analyzed: 04/06/2022					
Acenaphthene	0.0899	0.000304	mg/Kg	0.166	97341	54.1	30-130			
Fluoranthene	0.0968	0.000394	"	0.166	97341	58.3	30-130			
Chrysene	0.0947	0.000624	"	0.166	97341	57	30-130			
Benzo(b)fluoranthene	0.0777	0.000585	"	0.166	97341	46.8	30-130			
Benzo(a)pyrene	0.0924	0.000468	"	0.166	97341	55.6	30-130			
Fluorene	0.0948	0.000286	"	0.166	97341	57.1	30-130			
Anthracene	0.095	0.000334	"	0.166	97341	57.2	30-130			

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 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608753 - 3550B**

MS (L 97341-MS-L608753)	Source: 97341			Prepared: 04/05/2022 Analyzed: 04/06/2022						
Dibenz(a,h)anthracene	0.0777	0.000614	mg/Kg	0.166	97341	46.8	30-130			
2-Methylnaphthalene	0.0862	0.000645	"	0.166	97341	51.9	30-130			
1-Methylnaphthalene	0.086	0.000364	"	0.166	97341	51.8	30-130			
Benzo(a)anthracene	0.101	0.000493	"	0.166	97341	60.8	30-130			
Naphthalene	0.0871	0.000484	"	0.166	97341	52.4	30-130			
Pyrene	0.097	0.000643	"	0.166	97341	58.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0727	0.000627	"	0.166	97341	43.7	30-130			
Benzo(k)fluoranthene	0.0839	0.000437	"	0.166	97341	50.5	30-130			
Surrogate: 4-Terphenyl-d14	71.6		"	0.332	254	71.6	33-122			
Surrogate: 2-Fluorobiphenyl	65.3		"	0.332	215	65.3	33-115			
Surrogate: Nitrobenzene-d5	65		"	0.332	220	65	29-110			

LCS (LCS-L608753)	Prepared: 04/05/2022 Analyzed: 04/06/2022									
Anthracene	0.103	0.000334	mg/Kg	0.167		61.6	30-130			
2-Methylnaphthalene	0.0931	0.000645	"	0.167		55.7	30-130			
Pyrene	0.105	0.000643	"	0.167		62.8	30-130			
Naphthalene	0.0951	0.000484	"	0.167		56.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0871	0.000627	"	0.167		52.1	30-130			
Fluorene	0.104	0.000286	"	0.167		62.2	30-130			
Fluoranthene	0.105	0.000394	"	0.167		62.8	30-130			
Dibenz(a,h)anthracene	0.0993	0.000614	"	0.167		59.4	30-130			
1-Methylnaphthalene	0.0939	0.000364	"	0.167		56.2	30-130			
Benzo(a)anthracene	0.107	0.000493	"	0.167		64	30-130			
Benzo(a)pyrene	0.0963	0.000468	"	0.167		57.6	30-130			
Benzo(b)fluoranthene	0.0867	0.000585	"	0.167		51.9	30-130			
Benzo(k)fluoranthene	0.0924	0.000437	"	0.167		55.3	30-130			
Acenaphthene	0.0984	0.000304	"	0.167		58.9	30-130			

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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608753 - 3550B**

**LCS (LCS-L608753)**

Prepared: 04/05/2022 Analyzed: 04/06/2022

Chrysene	0.103	0.000624	mg/Kg	0.167		61.6	30-130			
Surrogate: Nitrobenzene-d5	74.1		"	0.333		74.1	29-110			
Surrogate: 4-Terphenyl-d14	84.3		"	0.333		84.3	33-122			
Surrogate: 2-Fluorobiphenyl	78.9		"	0.333		78.9	33-115			

**LRB (LRB-L608753)**

Prepared: 04/05/2022 Analyzed: 04/06/2022

Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	64.2		"	0.333		64.2	33-115			
Surrogate: 4-Terphenyl-d14	69.3		"	0.333		69.3	33-122			
Surrogate: Nitrobenzene-d5	60.9		"	0.333		60.9	29-110			

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 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608240 - 3050B**

<b>MSD (L 97393-MSD-L608240)</b>		<b>Source: 97393</b>			<b>Prepared: 04/01/2022 Analyzed: 04/04/2022</b>					
Cadmium	0.572	0.0259	mg/Kg	0.496	0.0318	109	75-125	11	80	
Copper	6.17	0.0806	"	2.48	1.75	178	75-125	12.5	80	*
Lead	9	0.031	"	2.48	3.48	223	75-125	4.8	80	*
Nickel	5.31	0.0633	"	2.48	1.61	149	75-125	0.7	80	*
Selenium	5.18	0.103	"	4.96	0.2	100	75-125	0.9	80	
Zinc	41.1	0.534	"	24.8	8.65	131	75-125	4.9	80	*
Barium	41.6	0.042	"	4.96	21.3	409	75-125	3.7	80	*
Arsenic	4.21	0.0855	"	2.48	1.06	127	75-125	8.9	80	*
Silver	0.534	0.0067	"	0.496	0.0203	104	75-125	1.8	80	

<b>MS (L 97393-MS-L608240)</b>		<b>Source: 97393</b>			<b>Prepared: 04/01/2022 Analyzed: 04/04/2022</b>					
Copper	5.44	0.0806	mg/Kg	2.39	1.75	154	75-125			*
Zinc	39.1	0.534	"	23.9	8.65	127	75-125			*
Silver	0.524	0.0067	"	0.478	0.0203	105	75-125			
Selenium	5.23	0.103	"	4.78	0.2	105	75-125			
Lead	8.57	0.031	"	2.39	3.48	213	75-125			*
Cadmium	0.512	0.0259	"	0.478	0.0318	100	75-125			
Barium	43.2	0.042	"	4.78	21.3	458	75-125			*
Arsenic	3.85	0.0855	"	2.39	1.06	117	75-125			
Nickel	5.27	0.0633	"	2.39	1.61	153	75-125			*

<b>LCS (LCS-L608240)</b>		<b>Prepared: 04/01/2022 Analyzed: 04/04/2022</b>								
Silver	0.496	0.0067	mg/Kg	0.5		99	80-120			
Lead	2.45	0.031	"	2.5		98	80-120			
Copper	2.44	0.0806	"	2.5		98	80-120			
Cadmium	0.483	0.0259	"	0.5		97	80-120			
Barium	4.91	0.042	"	5		98	80-120			

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 Wellington CO 80549

Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608240 - 3050B**

**LCS (LCS-L608240)**

Prepared: 04/01/2022 Analyzed: 04/04/2022

Arsenic	2.67	0.0855	mg/Kg	2.5		107	80-120			
Zinc	24.5	0.534	"	25		98	80-120			
Selenium	5.42	0.103	"	5		108	80-120			
Nickel	2.47	0.0633	"	2.5		99	80-120			

**LRB (LRB-L608240)**

Prepared: 04/01/2022 Analyzed: 04/04/2022

Barium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			

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Paul Henehan  
 Project Number: C022-022  
 Project: Noble - Fuego

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L609117 -</b>										
<b>DUP (L 97375-DUP)</b>		<b>Source: Y203714-01</b>			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	ND	0.502	mg/Kg		97375		-	0	20	
<b>MS (L 97375-MS)</b>		<b>Source: Y203714-01</b>			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	9.2	1.26	mg/Kg	8.26	97375	111	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	7.47	0.244	mg/Kg	8		93	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Paul Henehan  
Project Number: C022-022  
Project: Noble - Fuego

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### Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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Jordan A. Bynon, Project Manager