

FREMONT ENVIRONMENTAL INC.

June 26, 2022

Mr. Dan Peterson
Noble Energy Inc.
2115 117th Ave,
Greeley, CO 80634

Subject: **Limited Site Assessment Report**
 Lockman C #14-30
 SESE Sec 10, T4N, R64W
 Weld County, Colorado
 Fremont Project No. C022-023
 API 05-123-30892, Remediation #19296

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Limited Site Investigation Report for the Lockman C 14-30 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.

LOCKMAN C14-30

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-023

REMEDICATION #19296

Prepared by:

Fremont Environmental Inc.

1759 Redwing Lane

Broomfield, CO 80020

(303) 956-8714

June 26, 2022

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 BACKGROUND INFORMATION 1

 2.1 Site Location 1

 2.2 Site History 1

3.0 SITE INVESTIGATION ACTIVITIES..... 2

 3.1 Soil Borings/Monitoring Wells..... 2

 3.2 Groundwater Sampling and Analysis..... 3

4.0 DISCUSSION 3

5.0 REMARKS..... 4

Tables

Table 1: Summary of VOC and TPH Soil Chemistry

Table 2: Summary of PAHs Soil Chemistry

Table 3: Summary of Metals in Soil Chemistry

Table 4: Summary of Inorganic Soil Chemistry

Table 5: Summary of Organic Groundwater Chemistry and Elevation Data

Figures

Figure 1: Site Location Map

Figure 2: Site Map

Figure 3: Soil and Groundwater Chemistry Map

Appendices

Appendix A: Eagle Environmental Inc. Report

Appendix B: Laboratory Documentation

LIMITED SITE ASSESSMENT REPORT

NOBLE ENERGY INC.

LOCKMAN C14-30

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-023

REMEDIATION #19296

1.0 INTRODUCTION

The purpose of this document is to present site investigation data for the Lockman C14-30 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-methylnaphthalene, naphthalene, and benzo(a)anthracene 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 Lockman C14-30 wellhead is located approximately five miles south of Kersey, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.1 miles northwest of the intersection of County Road 46 and County Road 57. The location is further described as the SE ¼ of the SE ¼ of Section 10, Township 4N, Range 64W.

2.2 Site History

The site consists of the former wellhead area of the Lockman C14-30 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, and benzo(a)anthracene. 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 Lockman C14-30 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 approximately 16 feet. The maximum depth of the borings was 16 feet. Groundwater is present at the site at a depth of approximately 9.5 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 16 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 and the background sample (BG-1 4 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 4 Ft) also exceeded the COGCC Table 915-1 standards for arsenic, barium and selenium indicating that native concentrations of these constituents are present. 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 Lockman C14-30 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.

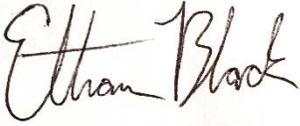
In addition, the data collected from monitoring well MW-1 indicates that the groundwater is not impacted at concentrations exceeding the COGCC Table 915-1 standards. Therefore, the Table 915-1 Residential Soil Screening Levels (RSSLs) can be utilized after four consecutive quarters of COGCC-compliant 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 at a depth of six feet 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.
LOCKMAN C14-30
FREMONT PROJECT NO. C022-023

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 4 Ft	4	3/25/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00335	<0.200	<25.0	<100
MW-2 4 Ft	4	3/25/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00067	<0.200	<25.0	<100
MW-3 4 Ft	4	3/25/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00067	<0.200	<25.0	<100
MW-4 4 Ft	4	3/25/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00067	<0.200	<25.0	<100
MW-5 4 Ft	4	3/25/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00067	<0.200	<25.0	<100
BG-1 4 Ft	4	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.
LOCKMAN C14-30
FREMONT PROJECT NO. C022-023

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 4 Ft	4	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	<0.00335	<0.00335	<0.00335
MW-2 4 Ft	4	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-3 4 Ft	4	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 4 Ft	4	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 4 Ft	4	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
BG-1 4 Ft	4	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.
LOCKMAN C14-30
FREMONT PROJECT NO. C022-023**

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 4 Ft	4	3/25/2022	3.08	130	0.193	13.9	10.7	12.8	0.582	0.0437	55.8	<0.244
MW-2 4 Ft	4	3/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3 4 Ft	4	3/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4 4 Ft	4	3/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5 4 Ft	4	3/25/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-1 4 Ft	4	3/25/2022	2.25	103	0.0831	7	6.86	7.67	0.478	0.0176	30.2	<0.244
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.
LOCKMAN C14-30
FREMONT PROJECT NO. C022-023

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
MW-1 4 Ft	3/25/2022	4	1.10	8.02	4.29	0.597
MW-2 4 Ft	3/25/2022	4	NA	NA	NA	NA
MW-3 4 Ft	3/25/2022	4	NA	NA	NA	NA
MW-4 4 Ft	3/25/2022	4	NA	NA	NA	NA
MW-5 4 Ft	3/25/2022	4	NA	NA	NA	NA
BG-1 4 Ft	3/25/2022	4	2.390	8.72	2.39	0.941
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

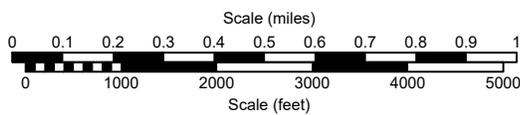
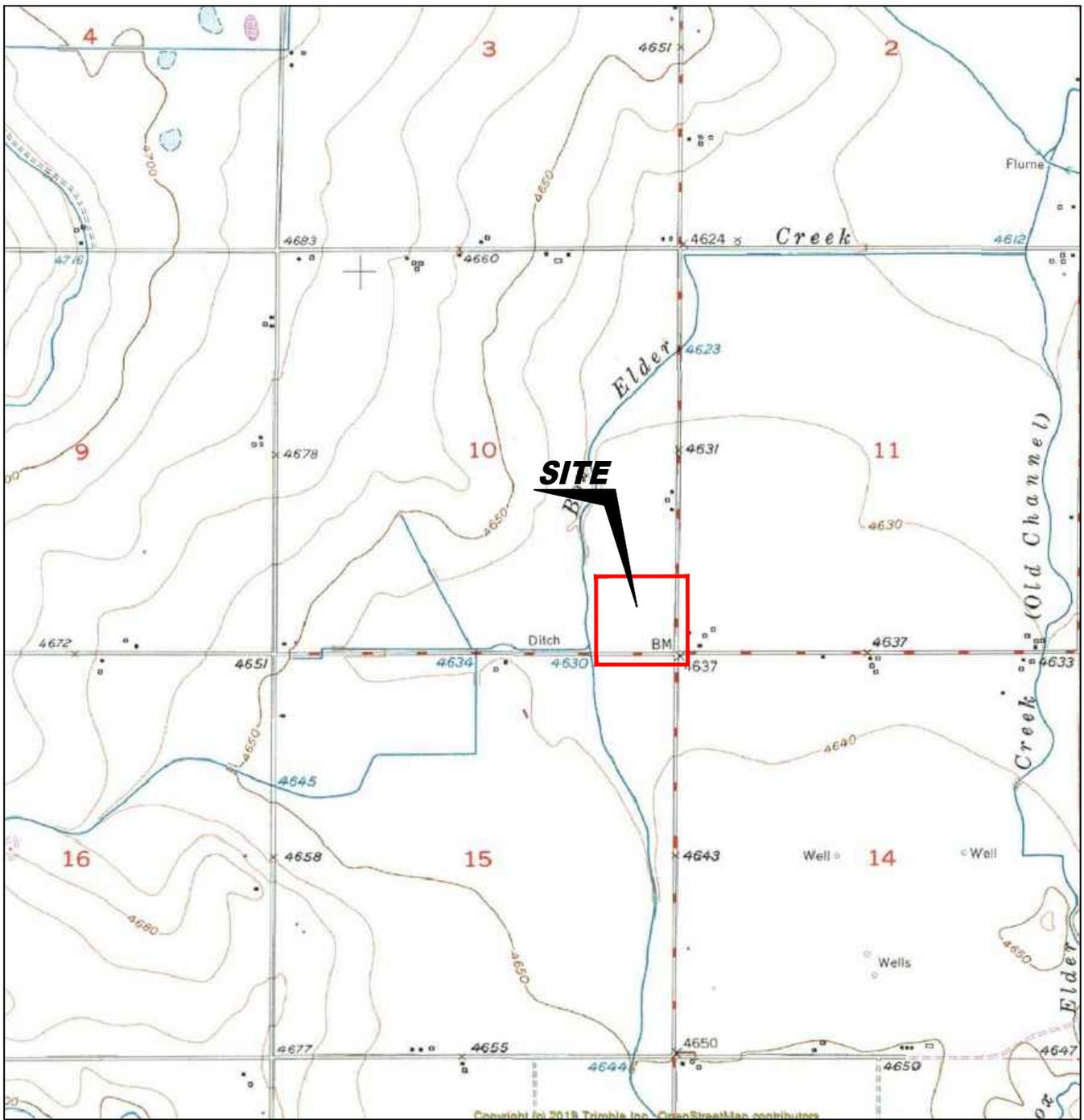
NA - Not Analyzed

TABLE 5
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
LOCKMAN C14-30
FREMONT PROJECT NO. C022-023

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPH- THALENE (µg/L)	1,2,4 TMB (µg/L)	1,3,5 TMB (µg/L)
MW-1	03/25/22	<1.0	<1.0	<1.0	<2.0	<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



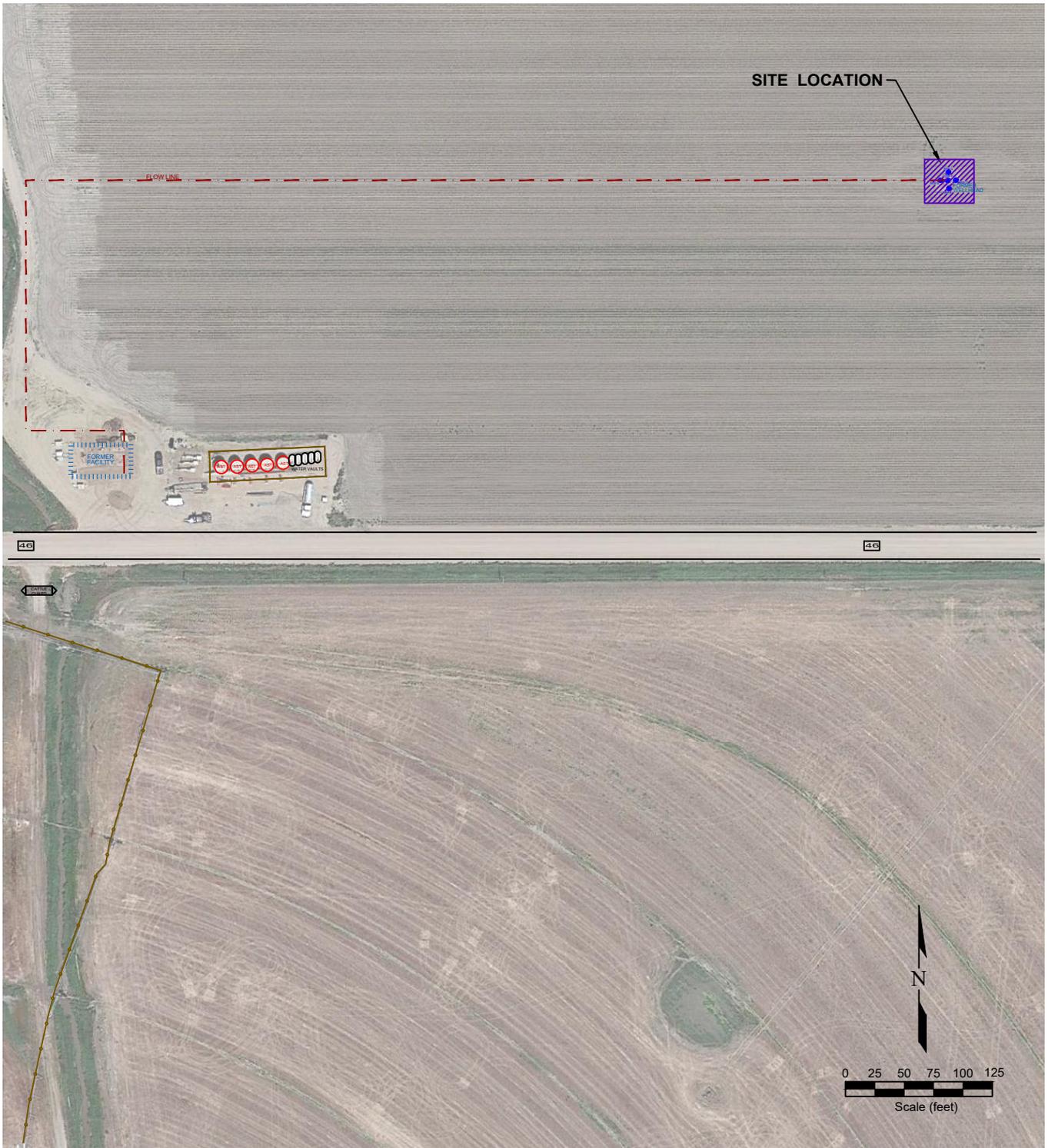
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Lockman C #14-30
SESE Sec. 10, T4N, R64W, 6th PM
Weld County, Colorado
40.320651°, -104.528093°

Project # C022-023	API # 05-123-30892	Location ID
Date 6/21/22	Remediation # 19296	Filename 22023T





LEGEND

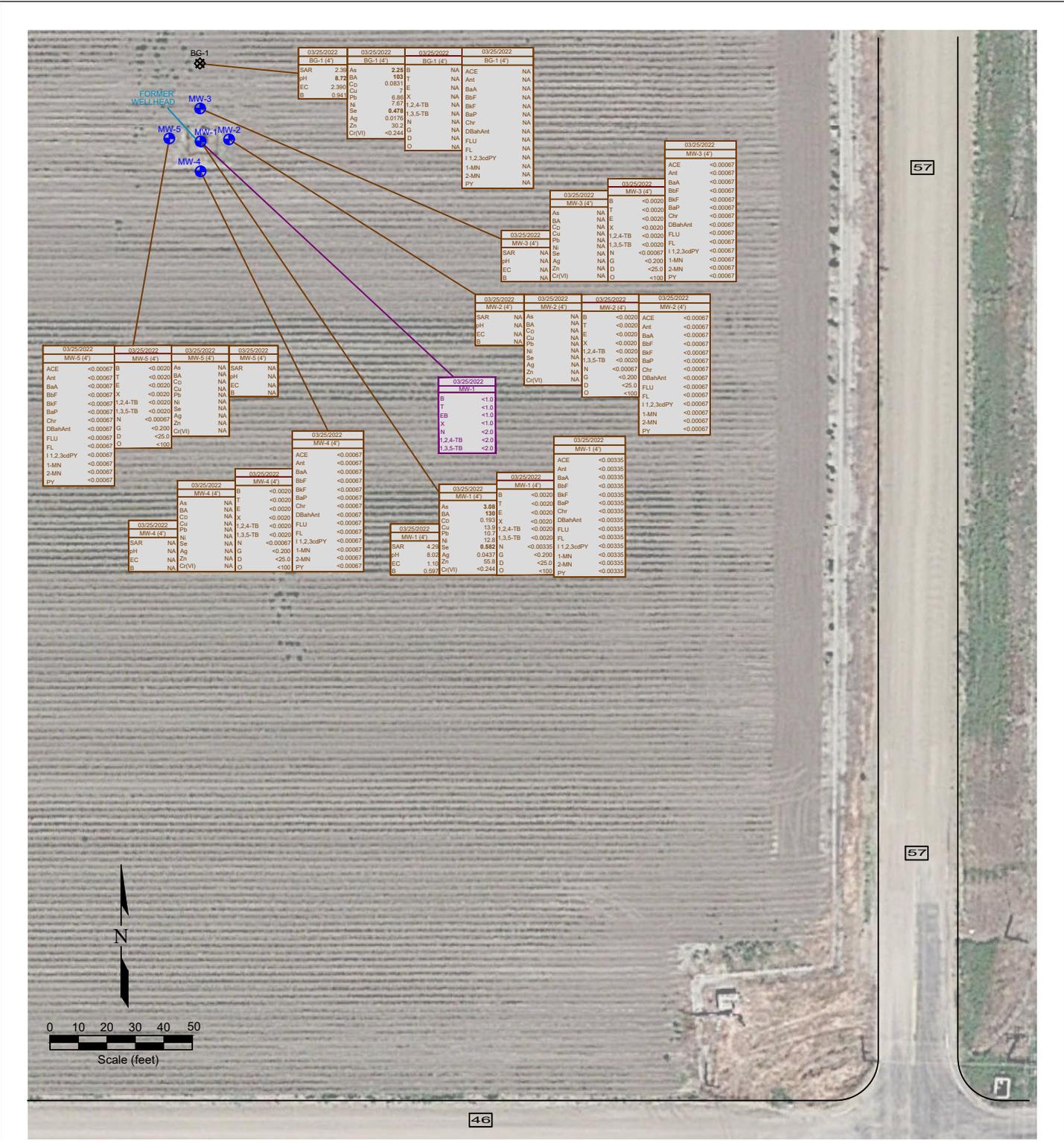
- RISER LOCATION
- MONITORING WELL LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- CONTAINMENT BERM
- CONTAINMENT WALL
- FLOW LINE
- FLOW LINE
- FENCE LINE

**Figure 2
SITE MAP**

Noble Energy, Inc. ~ Lockman C #14-30
 SESE Sec. 10, T4N, R64W, 6th PM
 Weld County, Colorado
 40.320651°, -104.528093°

Project No. C022-023	API # 05-123-30892	Facility #
Date 6/21/22	Reviewed By 19296	Filename 22023Q





LEGEND

- RISER LOCATION
- ★ SOIL SAMPLE LOCATION
- MONITORING WELL LOCATION
- FORMER FACILITY
- CONTAINMENT BERM
- FENCE LINE

03/25/2022 MW-2 (4')	DATE SAMPLED	SAMPLE ID and DEPTH (ft)	03/25/2022 MW-1 (4')	DATE SAMPLED	SAMPLE ID and DEPTH (ft)
ACE	<0.00067	ACENAPHTHENE (mg/kg)	B	<0.0020	BENZENE (mg/kg)
Ant	<0.00067	ANTHRACENE (mg/kg)	T	<0.0020	TOLUENE (mg/kg)
BaA	<0.00067	BENZO (A) ANTHRACENE (mg/kg)	E	<0.0020	ETHYL BENZENE (mg/kg)
BbF	<0.00067	BENZO (B) FLUORANTHENE (mg/kg)	K	<0.0020	TOTAL XYLENES (mg/kg)
BuF	<0.00067	BENZO (K) FLUORANTHENE (mg/kg)	1,2,4-TB	<0.0020	1,2,4-TRIMETHYLBENZENE (mg/kg)
BaP	<0.00067	BENZO (A) PYRENE (mg/kg)	1,3,5-TB	<0.0020	1,3,5-TRIMETHYLBENZENE (mg/kg)
Chr	<0.00067	CHRYSENE (mg/kg)	N	<0.00335	NAPHTHALENE (mg/kg)
DBahAnt	<0.00067	DIBENZO (A,H) ANTHRACENE (mg/kg)	G	<0.200	TPH-GRO (mg/kg)
FLU	<0.00067	FLUORANTHENE (mg/kg)	D	<25.0	TPH-DRO (mg/kg)
FL	<0.00067	FLUORENE (mg/kg)	O	<100	TPH-ORO (mg/kg)
1,1,2,3cdPY	<0.00067	INDENO (1,2,3-CD) PYRENE (mg/kg)			
1-MN	<0.00067	1-METHYLNAPHTHALENE (mg/kg)			
2-MN	<0.00067	2-METHYLNAPHTHALENE (mg/kg)			
PY	<0.00067	PYRENE (mg/kg)			

Figure 3

SOIL CHEMISTRY AND GROUNDWATER CHEMISTRY MAP

March 25, 2022

Noble Energy, Inc. ~ Lockman C #14-30

SESE Sec. 10, T4N, R64W, 6th PM

Weld County, Colorado

40.320651°, -104.528093°

Project No. C022-023	API # 05-123-30892	Facility #
Date 6/21/22	Reviewed By 19296	Filename 22023QQ

APPENDIX A

EAGLE ENVIRONMENTAL DATA



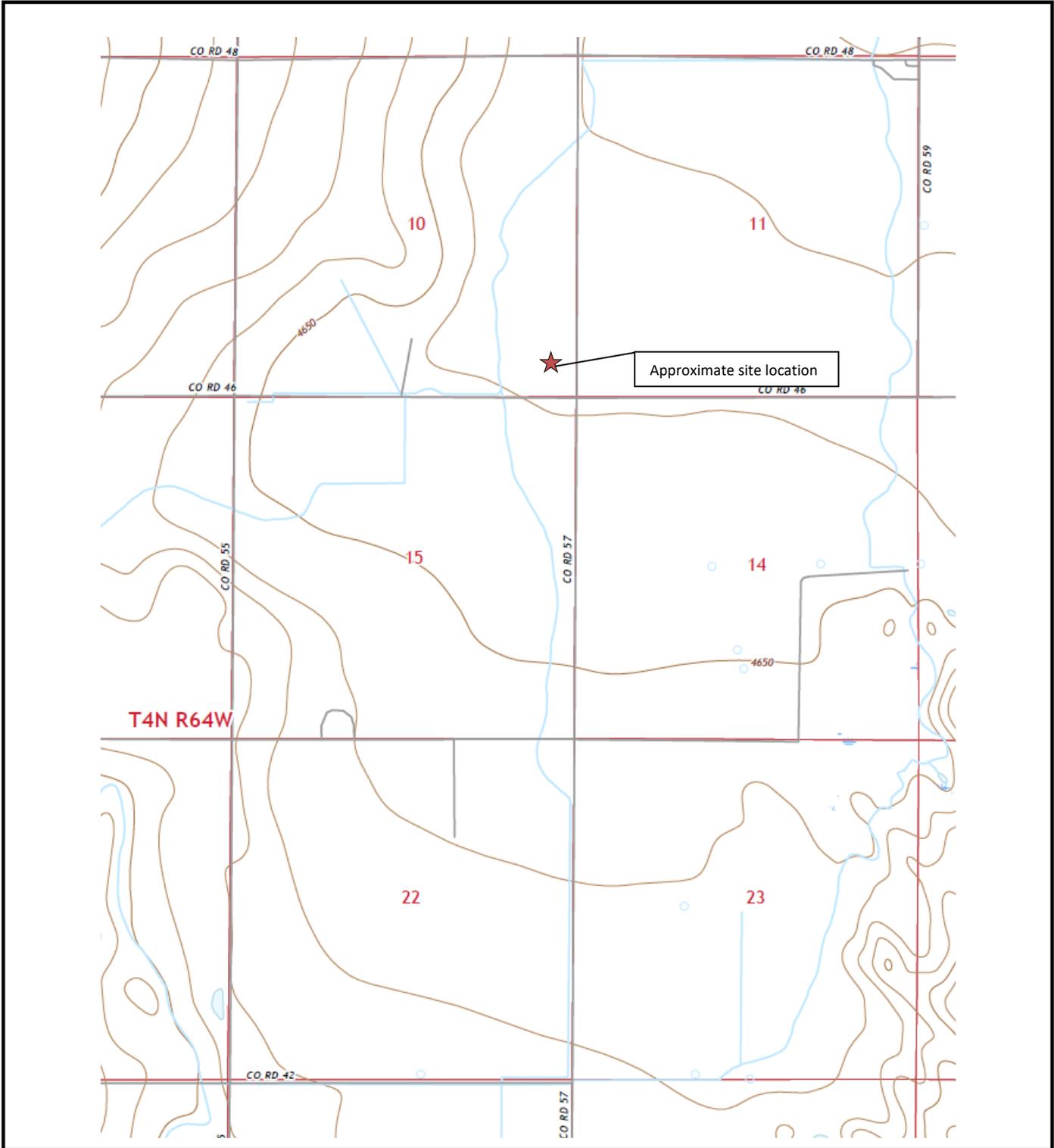
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map





Topographic Site Location Map
 Lockman C #14-30
 Closure Assessment
 40.320651 / -104.528093
 SE ¼ SE ¼ Sec. 10 T4N R64W 6PM
 Weld County, Colorado
 API # 05-123-30892
 Remediation # 19296



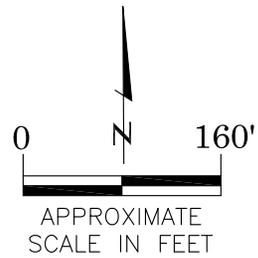
Source: USGS 7.5 Minute Topographic
 Map, Valley View School, CO
 Quadrangle 2019

Figure 1



LEGEND

- FORMER LOCKMAN C #14-30 WELLHEAD (PLUGGED/ABANDONED)
- APPROXIMATE FLOW LINE LOCATION (ABANDONED IN PLACE - TEMPORARY)
- ASSOCIATED SEPARATOR

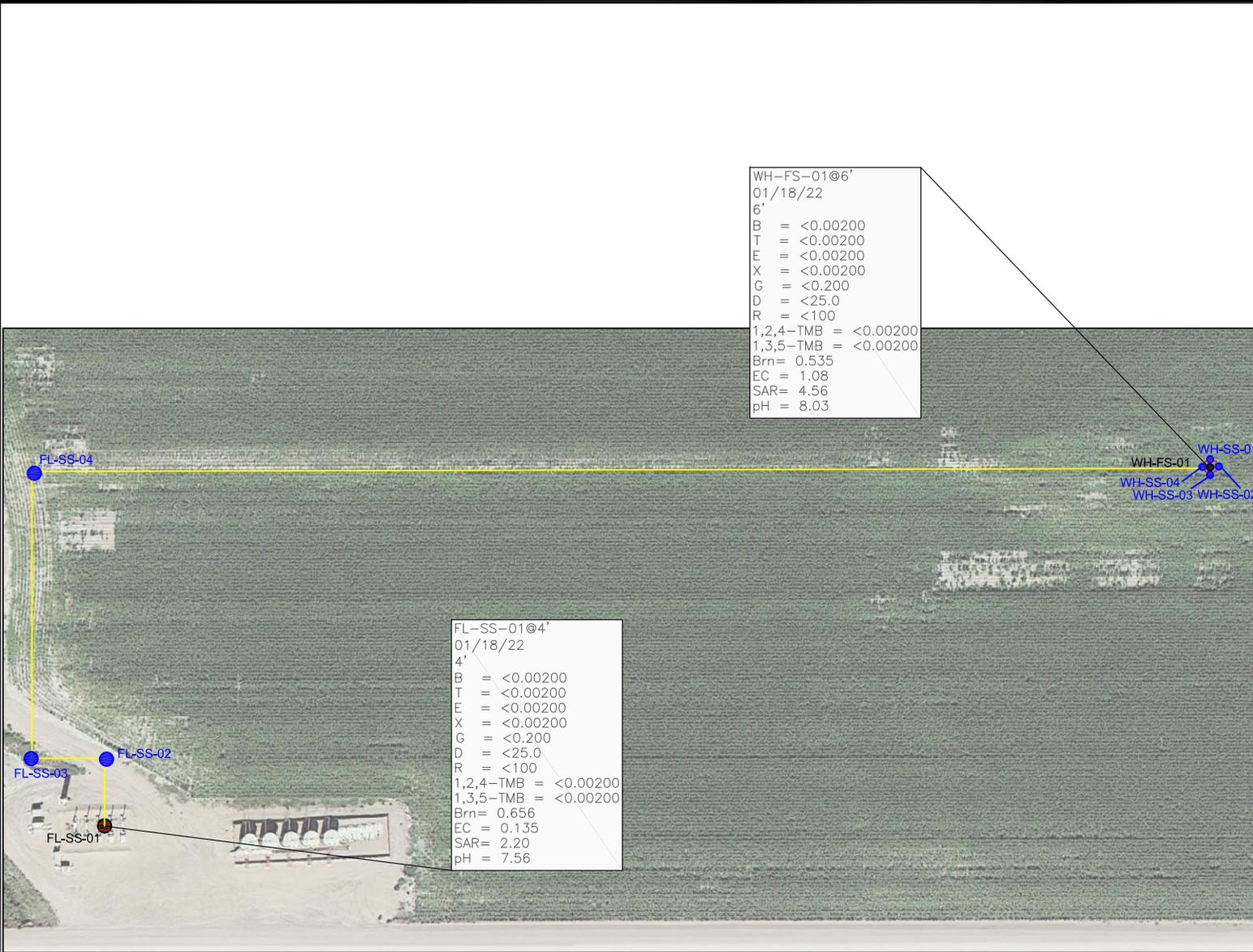


AERIAL SITE LOCATION MAP
 LOCKMAN C #14-30
 CLOSURE ASSESSMENT
 40.320651 / -104.528093
 SE¼ SE¼ SEC.10 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-30892
 REMEDIATION # 19296

DATE: 01/27/22	
FIG. NO. 2	DRAWN BY: AMN



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



WH-FS-01@6'
 01/18/22
 6'
 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= 0.535
 EC = 1.08
 SAR= 4.56
 pH = 8.03

FL-SS-01@4'
 01/18/22
 4'
 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= 0.656
 EC = 0.135
 SAR= 2.20
 pH = 7.56

LEGEND

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

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

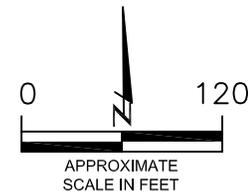
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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 EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

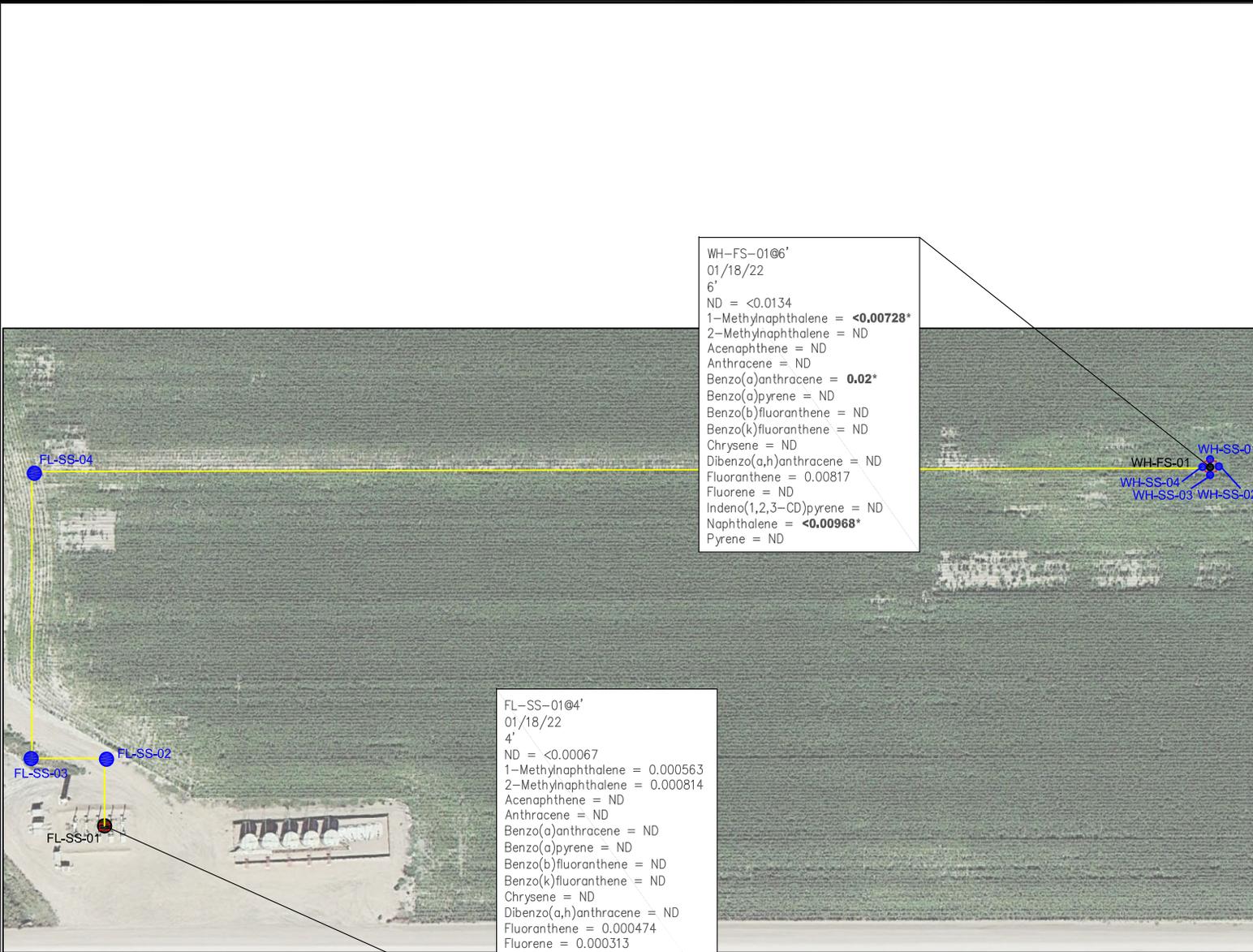
SOIL ANALYTICAL MAP
 LOCKMAN C #14-30
 CLOSURE ASSESSMENT
 40.320651 / -104.528093
 SE¼ SE¼ SEC.10 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-30892
 REMEDIATION # 19296



DATE:
 01/27/22
 DRAWN BY:
 AMN
 FIG.
 NO. 3



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



WH-FS-01@6'
 01/18/22
 6'
 ND = <0.0134
 1-Methylnaphthalene = **<0.00728***
 2-Methylnaphthalene = ND
 Acenaphthene = ND
 Anthracene = ND
 Benzo(a)anthracene = **0.02***
 Benzo(a)pyrene = ND
 Benzo(b)fluoranthene = ND
 Benzo(k)fluoranthene = ND
 Chrysene = ND
 Dibenzo(a,h)anthracene = ND
 Fluoranthene = 0.00817
 Fluorene = ND
 Indeno(1,2,3-CD)pyrene = ND
 Naphthalene = **<0.00968***
 Pyrene = ND

FL-SS-01@4'
 01/18/22
 4'
 ND = <0.00067
 1-Methylnaphthalene = 0.000563
 2-Methylnaphthalene = 0.000814
 Acenaphthene = ND
 Anthracene = ND
 Benzo(a)anthracene = ND
 Benzo(a)pyrene = ND
 Benzo(b)fluoranthene = ND
 Benzo(k)fluoranthene = ND
 Chrysene = ND
 Dibenzo(a,h)anthracene = ND
 Fluoranthene = 0.000474
 Fluorene = 0.000313
 Indeno(1,2,3-CD)pyrene = ND
 Naphthalene = ND
 Pyrene = ND

LEGEND

- - - - - APPROXIMATE ASSESSMENT BOUNDARIES
- - - - - APPROXIMATE FLOWLINE LOCATION (ABANDONED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR (PID)
- 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

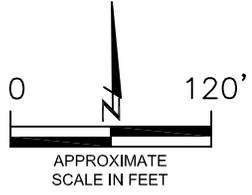
VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

LOCKMAN C #14-30
 CLOSURE ASSESSMENT
 40.320651 / -104.528093
 SE¼ SE¼ SEC.10 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-30892
 REMEDIATION # 19296



DATE: 01/27/22
 DRAWN BY: AMN
 FIG. NO. 4

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



ATTACHMENT A

Photo Log

Lockman C #14-30
API # 05-123-30892
Remediation # 19296

Closure Assessment

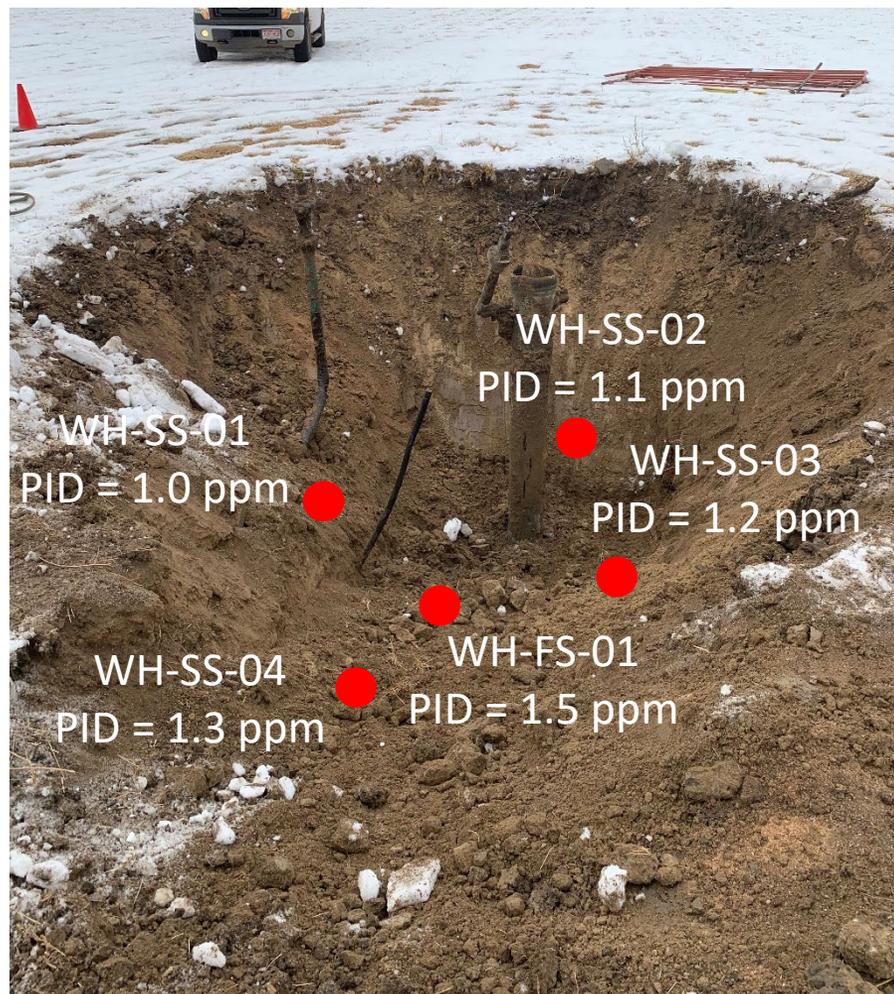
January 2022



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

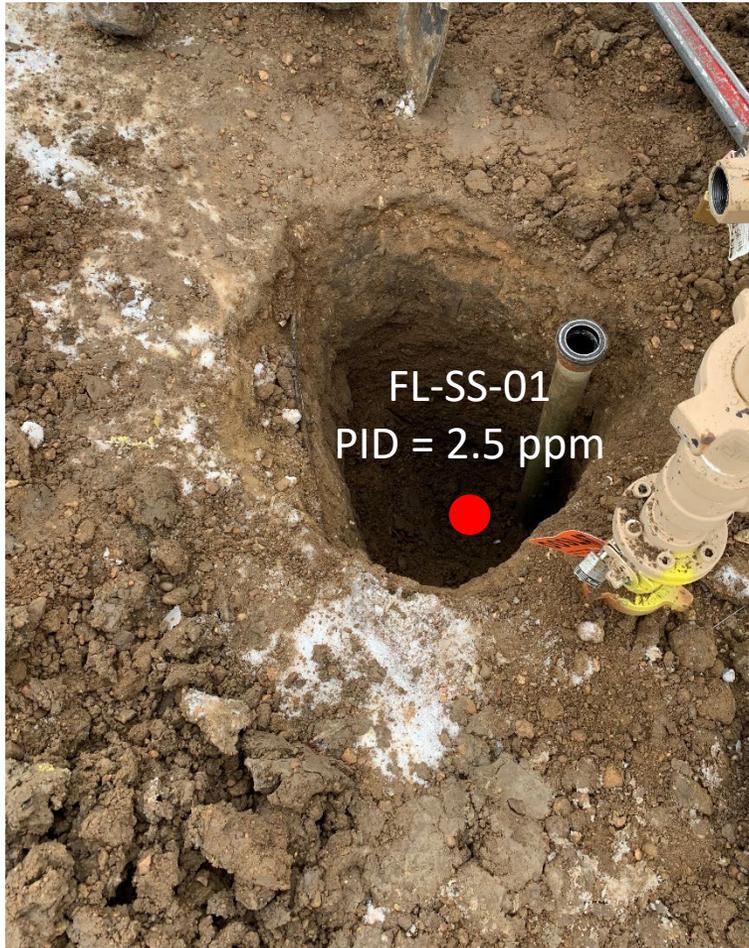


Wellhead Excavation – 1/18/22



Looking east-northeast
No petroleum hydrocarbon staining or odor observed

Flowline Assessment – 01/18/22



Flowline temporarily abandoned in place

Flowline pt. B (at separator) assessed

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



January 27, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Lockman C #14-30

Project Number - [none]

Attached are your analytical results for Noble - Lockman C #14-30 received by Origins Laboratory, Inc. January 18, 2022. This project is associated with Origins project number Y201316-01.

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 - Lockman C #14-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y201316-01	Soil	January 18, 2022 14:14	01/18/2022 16:11
FL-SS-01@4	Y201316-02	Soil	January 18, 2022 15:02	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 - Lockman C #14-30

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ✓ 201316 Client: Eagle
 Client Project ID: Lockman C 14-30
 Checklist Completed by: SG Shipped Via: HD
 Date/time completed: 1/18/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1, 50 °C _____ °C _____ °C _____ °C
 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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾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) MP

Date/Time Reviewed 1/19/22

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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Lockman C #14-30

WH-FS-01@6'
1/18/2022 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y201316-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.535		0.198	mg/L	1	B2A1909	01/19/2022	01/20/2022	
-------	-------	--	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	82.7 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

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	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			"	"	"	
----------------------------------	-------	--	--------	--	--	---	---	---	--

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 - Lockman C #14-30

WH-FS-01@6'
1/18/2022 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y201316-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.8 %		70-130			B2A24 07	01/24/2022	01/24/2022	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.77		0.499	meq/L	10	[CALC]	01/19/2022	01/20/2022	
Magnesium	1.51		0.823	"	"	"	"	"	
Sodium	6.67		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00728	0.0134	mg/Kg	20	L595492	01/20/2022	01/21/2022	
2-Methylnaphthalene	ND	0.0129	0.0134	"	"	"	"	"	
Acenaphthene	ND	0.00608	0.0134	"	"	"	"	"	
Anthracene	ND	0.00668	0.0134	"	"	"	"	"	
Benzo(a)anthracene	0.02	0.00986	0.0134	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00936	0.0134	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0117	0.0134	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00874	0.0134	"	"	"	"	"	
Chrysene	ND	0.0125	0.0134	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0123	0.0134	"	"	"	"	"	
Fluoranthene	0.00817	0.00788	0.0134	"	"	"	"	"	J

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 - Lockman C #14-30

WH-FS-01@6'
1/18/2022 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.
Y201316-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00572	0.0134	mg/Kg	20	L595492	01/20/2022	01/21/2022	
Indeno(1,2,3-cd)pyrene	ND	0.0125	0.0134	"	"	"	"	"	
Naphthalene	ND	0.00968	0.0134	"	"	"	"	"	
Pyrene	ND	0.0129	0.0134	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	33.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	36.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	33.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.03			pH Units	1	B2A1910	01/19/2022	01/20/2022	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.56			SAR	1	B2A1908	01/19/2022	01/20/2022	
-----	------	--	--	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.08		0.00500	mmhos/cm	1	B2A1911	01/19/2022	01/20/2022	
---------------------------	------	--	---------	----------	---	---------	------------	------------	--

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: [none]
 Project: Noble - Lockman C #14-30

FL-SS-01@4
 1/18/2022 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
 Y201316-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.656		0.199	mg/L	1	B2A1909	01/19/2022	01/20/2022	
-------	-------	--	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	84.8 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

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	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			"	"	"	
----------------------------------	-------	--	--------	--	--	---	---	---	--

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 - Lockman C #14-30

FL-SS-01@4
 1/18/2022 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
 Y201316-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.7 %		70-130			B2A24 07	01/24/2022	01/24/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	25.8		0.499	meq/L	10	[CALC]	01/19/2022	01/20/2022	
Magnesium	5.40		0.823	"	"	"	"	"	
Sodium	0.535		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000563	0.000364	0.00067	mg/Kg	1	L595492	01/20/2022	01/21/2022	JB
2-Methylnaphthalene	0.000814	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	0.000474	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.000313	0.000286	0.00067	"	"	"	"	"	J

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 - Lockman C #14-30

FL-SS-01@4
 1/18/2022 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.
 Y201316-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L595492	01/20/2022	01/21/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	72.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.56			pH Units	1	B2A1910	01/19/2022	01/20/2022	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.135			SAR	1	B2A1908	01/19/2022	01/20/2022	
-----	-------	--	--	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.20		0.00500	mmhos/cm	1	B2A1911	01/19/2022	01/20/2022	
---------------------------	------	--	---------	----------	---	---------	------------	------------	--

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: [none]
 Project: Noble - Lockman C #14-30

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										
Blank (B2A1812-BLK1)										
					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 - Lockman C #14-30

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

LCS (B2A1812-BS1)

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 - Lockman C #14-30

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

Matrix Spike (B2A1812-MS1)	Source: Y201302-01			Prepared: 01/18/2022 Analyzed: 01/18/2022						
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 - Lockman C #14-30

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

Matrix Spike Dup (B2A1812-MSD1)	Source: Y201302-01		Prepared: 01/18/2022 Analyzed: 01/18/2022							
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 - Lockman C #14-30

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 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.



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 - Lockman C #14-30

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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.



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 - Lockman C #14-30

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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 - Lockman C #14-30

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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.



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 - Lockman C #14-30

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L595492 - 3550B

MSD (L 87425-MSD-L595492)	Source: 87425		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: 87425		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.



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 - Lockman C #14-30

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L595492 - 3550B

MS (L 87425-MS-L595492)	Source: 87425			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			

LCS (LCS-L595492)	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.



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 - Lockman C #14-30

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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.



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 - Lockman C #14-30

Notes and Definitions

U Sample is Non-Detect.

JB [Undefined]

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.

APPENDIX B

LABORATORY DOCUMENTATION

April 11, 2022

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Noble - Lockman

Project Number - C022-023

Attached are your analytical results for Noble - Lockman received by Origins Laboratory, Inc. March 28, 2022. This project is associated with Origins project number Y203715-01.

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: C022-023
Project: Noble - Lockman

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 4FT	Y203715-01	Soil	March 25, 2022 0:00	03/28/2022 14:30
MW-2 4FT	Y203715-03	Soil	March 25, 2022 0:00	03/28/2022 14:30
MW-3 4FT	Y203715-05	Soil	March 25, 2022 0:00	03/28/2022 14:30
MW-4 4FT	Y203715-07	Soil	March 25, 2022 0:00	03/28/2022 14:30
MW-5 4FT	Y203715-09	Soil	March 25, 2022 0:00	03/28/2022 14:30
MW-1	Y203715-11	Water	March 25, 2022 0:00	03/28/2022 14:30
BG-1	Y203715-12	Soil	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: C022-023
 Project: Noble - Lockman

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4205715

Client: Fremont/Noble

Client Project ID: Lockman

Checklist Completed by: JTB

Shipped Via: HD

Date/time completed: 3-29-22

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

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

Cooler Number/Temperature: 152.c / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T603

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH).	X			not checked
Additional Comments (if any):				

⁽¹⁾ 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) JTB

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: C022-023
 Project: Noble - Lockman

MW-1 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y203715-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.597		0.0995	mg/L	1	B2C2911	03/29/2022	03/30/2022	
-------	-------	--	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2902	03/29/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.7 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

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	102 %		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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

MW-1 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y203715-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.4 %		70-130			B2C30 24	03/30/2022	04/02/2022	
Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.12		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	1.38		0.823	"	"	"	"	"	
Sodium	6.44		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L608836	04/05/2022	04/05/2022	
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	"	"	"	"	"	

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: C022-023
 Project: Noble - Lockman

MW-1 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.
Y203715-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L608836	04/05/2022	04/05/2022	
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	60.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	75.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B2C2922	03/31/2022	04/01/2022	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.29			SAR	1	B2C2912	03/29/2022	03/31/2022	
-----	------	--	--	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.10		0.00500	mmhos/cm	1	B2C2918	03/30/2022	03/31/2022	
---------------------------	------	--	---------	----------	---	---------	------------	------------	--

Total Metals by 6020B

Arsenic	3.08	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
---------	------	--------	------	-------	---	---------	------------	------------	--

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.

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

Paul Henehan
Project Number: C022-023
Project: Noble - Lockman

MW-1 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.
Y203715-01 (Soil)

Total Metals by 6020B

Barium	130	0.042	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Cadmium	0.193	0.0259	0.25	"	"	"	"	"	J
Copper	13.9	0.0806	0.25	"	"	"	"	"	
Lead	10.7	0.031	0.25	"	"	"	"	"	
Nickel	12.8	0.0633	0.25	"	"	"	"	"	
Selenium	0.582	0.103	0.25	"	"	"	"	"	
Silver	0.0437	0.0067	0.25	"	"	"	"	"	J
Zinc	55.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L609117	03/25/2022	04/06/2022	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

MW-2 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y203715-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2902	03/29/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	109 %		50-150			"	"	"	
------------------------	-------	--	--------	--	--	---	---	---	--

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	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %		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: C022-023
 Project: Noble - Lockman

MW-2 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.
Y203715-03 (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	58.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	67 %	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: C022-023
 Project: Noble - Lockman

MW-3 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y203715-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2902	03/29/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	113 %		50-150			"	"	"	
--------------------------------	-------	--	--------	--	--	---	---	---	--

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			"	"	"	
Surrogate: Toluene-d8	94.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %		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: C022-023
 Project: Noble - Lockman

MW-3 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.
Y203715-05 (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	50.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.8 %	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: C022-023
 Project: Noble - Lockman

MW-4 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y203715-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2902	03/29/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	69.4 %		50-150			"	"	"	
--------------------------------	--------	--	--------	--	--	---	---	---	--

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	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %		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: C022-023
 Project: Noble - Lockman

MW-4 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.
Y203715-07 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L608881	04/05/2022	04/06/2022	
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	46.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.4 %	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: C022-023
 Project: Noble - Lockman

MW-5 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y203715-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C2902	03/29/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.4 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

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	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %		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: C022-023
 Project: Noble - Lockman

MW-5 4FT

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.
Y203715-09 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L608881	04/05/2022	04/06/2022	
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	35.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	47.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	38.5 %		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: C022-023
 Project: Noble - Lockman

MW-1

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
 Y203715-11 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B2C3109	03/31/2022	04/03/2022	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	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %		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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

BG-1

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y203715-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.941		0.100	mg/L	1	B2C2911	03/29/2022	03/30/2022	
-------	-------	--	-------	------	---	---------	------------	------------	--

Metals by Saturated Paste by EPA 6010

Calcium	4.65		0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022	
Magnesium	2.95		0.823	"	"	"	"	"	
Sodium	17.0		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B2C2922	03/31/2022	04/01/2022	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	8.72			SAR	1	B2C2912	03/29/2022	03/31/2022	
-----	------	--	--	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.39		0.00500	mmhos/cm	1	B2C2918	03/30/2022	03/31/2022	
---------------------------	------	--	---------	----------	---	---------	------------	------------	--

Total Metals by 6020B

Arsenic	2.25	0.0855	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Barium	103	0.042	0.25	"	"	"	"	"	
Cadmium	0.0831	0.0259	0.25	"	"	"	"	"	J
Copper	7	0.0806	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.

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

Paul Henehan
Project Number: C022-023
Project: Noble - Lockman

BG-1

3/25/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.
Y203715-12 (Soil)

Total Metals by 6020B

Lead	6.86	0.031	0.25	mg/Kg	5	L608240	04/01/2022	04/04/2022	
Nickel	7.67	0.0633	0.25	"	"	"	"	"	
Selenium	0.478	0.103	0.25	"	"	"	"	"	
Silver	0.0176	0.0067	0.25	"	"	"	"	"	J
Zinc	30.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L609117	03/25/2022	04/06/2022	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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 B2C2902 - EPA 3550B										
Blank (B2C2902-BLK1)										
					Prepared: 03/29/2022 Analyzed: 04/05/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.1	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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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 B2C2902 - EPA 3550B

LCS (B2C2902-BS1)

Prepared: 03/29/2022 Analyzed: 04/05/2022

Diesel (C10-C28)	931	50.0	mg/kg	1000		93.1	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.3	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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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 B2C2902 - EPA 3550B

Matrix Spike (B2C2902-MS1)	Source: Y203715-01			Prepared: 03/29/2022 Analyzed: 04/05/2022						
Diesel (C10-C28)	884	50.0	mg/kg	1000	ND	88.4	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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 B2C2902 - EPA 3550B										
Matrix Spike Dup (B2C2902-MSD1)					Source: Y203715-01					Prepared: 03/29/2022 Analyzed: 04/05/2022
Diesel (C10-C28)	852	50.0	mg/kg	1000	ND	85.2	70-130	3.73	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	1.47	35	
Surrogate: o-Terphenyl	55		"	49.8		111	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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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 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			

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: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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			

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: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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			

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: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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			

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: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B2C3109 - EPA 5030B (Water)

Blank (B2C3109-BLK1)

Prepared: 03/31/2022 Analyzed: 03/31/2022

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	64		"	62.5	103		70-130			
Surrogate: Toluene-d8	61		"	62.5	97.2		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.6		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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B2C3109 - EPA 5030B (Water)

LCS (B2C3109-BS1)

Prepared: 03/31/2022 Analyzed: 03/31/2022

1,2,4-Trimethylbenzene	56.4	2.00	ug/L	50.0		113	70-130			
1,3,5-Trimethylbenzene	55.9	2.00	"	50.0		112	70-130			
Benzene	51.4	1.00	"	50.0		103	70-130			
Ethylbenzene	52.6	1.00	"	50.0		105	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
Naphthalene	52.6	2.00	"	50.0		105	70-130			
o-Xylene	51.7	1.00	"	50.0		103	70-130			
Toluene	51.2	1.00	"	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B2C3109 - EPA 5030B (Water)

Matrix Spike (B2C3109-MS1)	Source: Y203719-01			Prepared: 03/31/2022 Analyzed: 04/02/2022						
1,2,4-Trimethylbenzene	54.1	2.00	ug/L	50.0	ND	108	70-130			
1,3,5-Trimethylbenzene	53.0	2.00	"	50.0	ND	106	70-130			
Benzene	52.9	1.00	"	50.0	ND	106	70-130			
Ethylbenzene	49.1	1.00	"	50.0	ND	98.2	70-130			
m,p-Xylene	98.3	2.00	"	100	ND	98.3	70-130			
Naphthalene	63.5	2.00	"	50.0	ND	127	70-130			
o-Xylene	50.9	1.00	"	50.0	ND	102	70-130			
Toluene	49.2	1.00	"	50.0	ND	98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B2C3109 - EPA 5030B (Water)

Matrix Spike Dup (B2C3109-MSD1)	Source: Y203719-01			Prepared: 03/31/2022 Analyzed: 04/02/2022						
1,2,4-Trimethylbenzene	52.1	2.00	ug/L	50.0	ND	104	70-130	3.80	20	
1,3,5-Trimethylbenzene	50.7	2.00	"	50.0	ND	101	70-130	4.40	20	
Benzene	52.2	1.00	"	50.0	ND	104	70-130	1.33	20	
Ethylbenzene	46.4	1.00	"	50.0	ND	92.9	70-130	5.59	20	
m,p-Xylene	93.0	2.00	"	100	ND	93.0	70-130	5.52	20	
Naphthalene	64.3	2.00	"	50.0	ND	129	70-130	1.27	20	
o-Xylene	48.6	1.00	"	50.0	ND	97.2	70-130	4.60	20	
Toluene	47.8	1.00	"	50.0	ND	95.7	70-130	2.90	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Saturated Paste - Quality Control
Origins Laboratory, Inc.

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

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

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: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L608881 - 3550B

MSD (L 97385-MSD-L608881)		Source: Y203715-07			Prepared: 04/05/2022 Analyzed: 04/06/2022					
Anthracene	0.113	0.000334	mg/Kg	0.163	97385	69.3	30-130	11.2	30	
Naphthalene	0.102	0.000484	"	0.163	97385	62.5	30-130	11	30	
Indeno(1,2,3-cd)pyrene	0.0944	0.000627	"	0.163	97385	57.9	30-130	28.5	30	
Fluorene	0.114	0.000286	"	0.163	97385	69.9	30-130	11.1	30	
Fluoranthene	0.119	0.000394	"	0.163	97385	73	30-130	14.4	30	
Dibenz(a,h)anthracene	0.104	0.000614	"	0.163	97385	63.8	30-130	25.1	30	
Chrysene	0.112	0.000624	"	0.163	97385	68.7	30-130	11.8	30	
Benzo(k)fluoranthene	0.0958	0.000437	"	0.163	97385	58.7	30-130	10.5	30	
Benzo(b)fluoranthene	0.1	0.000585	"	0.163	97385	61.3	30-130	17.8	30	
1-Methylnaphthalene	0.101	0.000364	"	0.163	97385	61.9	30-130	10.1	30	
Benzo(a)anthracene	0.118	0.000493	"	0.163	97385	72.3	30-130	9.7	30	
Acenaphthene	0.106	0.000304	"	0.163	97385	65	30-130	10.7	30	
2-Methylnaphthalene	0.101	0.000645	"	0.163	97385	61.9	30-130	9.4	30	
Pyrene	0.116	0.000643	"	0.163	97385	71.1	30-130	10.9	30	
Benzo(a)pyrene	0.108	0.000468	"	0.163	97385	66.2	30-130	10.3	30	

Surrogate: Nitrobenzene-d5	51.2		"	0.326	156	51.2	29-110			
Surrogate: 4-Terphenyl-d14	60.1		"	0.326	188	60.1	33-122			
Surrogate: 2-Fluorobiphenyl	48.7		"	0.326	152	48.7	33-115			

MS (L 97385-MS-L608881)		Source: Y203715-07			Prepared: 04/05/2022 Analyzed: 04/06/2022					
Fluorene	0.102	0.000286	mg/Kg	0.165	97385	61.8	30-130			
Benzo(b)fluoranthene	0.0836	0.000585	"	0.165	97385	50.6	30-130			
Pyrene	0.104	0.000643	"	0.165	97385	63	30-130			
Indeno(1,2,3-cd)pyrene	0.0708	0.000627	"	0.165	97385	42.9	30-130			
Fluoranthene	0.103	0.000394	"	0.165	97385	62.4	30-130			
Dibenz(a,h)anthracene	0.0808	0.000614	"	0.165	97385	48.9	30-130			
Chrysene	0.0995	0.000624	"	0.165	97385	60.3	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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L608881 - 3550B

MS (L 97385-MS-L608881)		Source: Y203715-07			Prepared: 04/05/2022 Analyzed: 04/06/2022					
Anthracene	0.101	0.000334	mg/Kg	0.165	97385	61.2	30-130			
1-Methylnaphthalene	0.0912	0.000364	"	0.165	97385	55.2	30-130			
2-Methylnaphthalene	0.0919	0.000645	"	0.165	97385	55.6	30-130			
Acenaphthene	0.0952	0.000304	"	0.165	97385	57.6	30-130			
Benzo(k)fluoranthene	0.0862	0.000437	"	0.165	97385	52.2	30-130			
Naphthalene	0.0913	0.000484	"	0.165	97385	55.3	30-130			
Benzo(a)anthracene	0.107	0.000493	"	0.165	97385	64.8	30-130			
Benzo(a)pyrene	0.0974	0.000468	"	0.165	97385	59	30-130			
Surrogate: Nitrobenzene-d5	39		"	0.33	156	39	29-110			
Surrogate: 2-Fluorobiphenyl	37.2		"	0.33	152	37.2	33-115			
Surrogate: 4-Terphenyl-d14	53		"	0.33	188	53	33-122			

LCS (LCS-L608881)					Prepared: 04/05/2022 Analyzed: 04/06/2022					
Indeno(1,2,3-cd)pyrene	0.0851	0.000627	mg/Kg	0.167		50.9	30-130			
2-Methylnaphthalene	0.097	0.000645	"	0.167		58	30-130			
1-Methylnaphthalene	0.0959	0.000364	"	0.167		57.4	30-130			
Naphthalene	0.097	0.000484	"	0.167		58	30-130			
Pyrene	0.105	0.000643	"	0.167		62.8	30-130			
Acenaphthene	0.101	0.000304	"	0.167		60.4	30-130			
Anthracene	0.105	0.000334	"	0.167		62.8	30-130			
Benzo(k)fluoranthene	0.0955	0.000437	"	0.167		57.1	30-130			
Fluoranthene	0.106	0.000394	"	0.167		63.4	30-130			
Fluorene	0.106	0.000286	"	0.167		63.4	30-130			
Chrysene	0.104	0.000624	"	0.167		62.2	30-130			
Dibenz(a,h)anthracene	0.0926	0.000614	"	0.167		55.4	30-130			
Benzo(b)fluoranthene	0.0906	0.000585	"	0.167		54.2	30-130			
Benzo(a)pyrene	0.0982	0.000468	"	0.167		58.8	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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L608881 - 3550B

LCS (LCS-L608881)

Prepared: 04/05/2022 Analyzed: 04/06/2022

Benzo(a)anthracene	0.109	0.000493	mg/Kg	0.167		65.2	30-130			
Surrogate: 2-Fluorobiphenyl	54.9		"	0.333		54.9	33-115			
Surrogate: Nitrobenzene-d5	46.2		"	0.333		46.2	29-110			
Surrogate: 4-Terphenyl-d14	58.2		"	0.333		58.2	33-122			

LRB (LRB-L608881)

Prepared: 04/05/2022 Analyzed: 04/06/2022

2-Methylnaphthalene	ND	0.00067	mg/Kg				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Fluorene	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	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	46.8		"	0.333		46.8	33-115			
Surrogate: 4-Terphenyl-d14	50.7		"	0.333		50.7	33-122			
Surrogate: Nitrobenzene-d5	43.5		"	0.333		43.5	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: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L608836 - 3550B

MSD (L 97326-MSD-L608836)		Source: 97326			Prepared: 04/05/2022 Analyzed: 04/05/2022					
Benzo(a)anthracene	0.111	0.000493	mg/Kg	0.166	97326	66.8	30-130	7.7	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	
Naphthalene	0.0971	0.000484	"	0.166	97326	58.4	30-130	6.8	30	
Anthracene	0.106	0.000334	"	0.166	97326	63.8	30-130	8.1	30	
Acenaphthene	0.0992	0.000304	"	0.166	97326	59.7	30-130	9.4	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	
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	
Benzo(k)fluoranthene	0.0958	0.000437	"	0.166	97326	57.7	30-130	11.9	30	
Benzo(b)fluoranthene	0.0945	0.000585	"	0.166	97326	56.9	30-130	4.3	30	
Benzo(a)pyrene	0.102	0.000468	"	0.166	97326	61.4	30-130	7.5	30	
Pyrene	0.112	0.000643	"	0.166	97326	67.4	30-130	5.2	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			

MS (L 97326-MS-L608836)		Source: 97326			Prepared: 04/05/2022 Analyzed: 04/05/2022					
Acenaphthene	0.109	0.000304	mg/Kg	0.164	97326	66.4	30-130			
Benzo(k)fluoranthene	0.108	0.000437	"	0.164	97326	65.8	30-130			
Fluorene	0.117	0.000286	"	0.164	97326	71.3	30-130			
Fluoranthene	0.119	0.000394	"	0.164	97326	72.5	30-130			
Indeno(1,2,3-cd)pyrene	0.11	0.000627	"	0.164	97326	67	30-130			
Naphthalene	0.104	0.000484	"	0.164	97326	63.4	30-130			
Dibenz(a,h)anthracene	0.111	0.000614	"	0.164	97326	67.6	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.

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L608836 - 3550B

MS (L 97326-MS-L608836)	Source: 97326			Prepared: 04/05/2022 Analyzed: 04/05/2022						
Chrysene	0.113	0.000624	mg/Kg	0.164	97326	68.9	30-130			
Benzo(b)fluoranthene	0.0987	0.000585	"	0.164	97326	60.1	30-130			
Benzo(a)pyrene	0.11	0.000468	"	0.164	97326	67	30-130			
Anthracene	0.115	0.000334	"	0.164	97326	70.1	30-130			
2-Methylnaphthalene	0.104	0.000645	"	0.164	97326	63.4	30-130			
1-Methylnaphthalene	0.103	0.000364	"	0.164	97326	62.8	30-130			
Pyrene	0.118	0.000643	"	0.164	97326	71.9	30-130			
Benzo(a)anthracene	0.12	0.000493	"	0.164	97326	73.1	30-130			
Surrogate: Nitrobenzene-d5	68.2		"	0.328	190	68.2	29-110			
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			

LCS (LCS-L608836)	Prepared: 04/05/2022 Analyzed: 04/05/2022									
Fluorene	0.124	0.000286	mg/Kg	0.167		74.2	30-130			
Pyrene	0.128	0.000643	"	0.167		76.6	30-130			
Naphthalene	0.111	0.000484	"	0.167		66.4	30-130			
Indeno(1,2,3-cd)pyrene	0.107	0.000627	"	0.167		64	30-130			
Anthracene	0.123	0.000334	"	0.167		73.6	30-130			
1-Methylnaphthalene	0.11	0.000364	"	0.167		65.8	30-130			
Fluoranthene	0.128	0.000394	"	0.167		76.6	30-130			
2-Methylnaphthalene	0.111	0.000645	"	0.167		66.4	30-130			
Acenaphthene	0.114	0.000304	"	0.167		68.2	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			
Benzo(b)fluoranthene	0.0988	0.000585	"	0.167		59.1	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			

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: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L608836 - 3550B

LCS (LCS-L608836)

Prepared: 04/05/2022 Analyzed: 04/05/2022

Dibenz(a,h)anthracene	0.11	0.000614	mg/Kg	0.167		65.8	30-130			
Surrogate: 4-Terphenyl-d14	85.8		"	0.333		85.8	33-122			
Surrogate: Nitrobenzene-d5	75.6		"	0.333		75.6	29-110			
Surrogate: 2-Fluorobiphenyl	67.8		"	0.333		67.8	33-115			

LRB (LRB-L608836)

Prepared: 04/05/2022 Analyzed: 04/05/2022

Pyrene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	66.6		"	0.333		66.6	29-110			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			
Surrogate: 4-Terphenyl-d14	79.5		"	0.333		79.5	33-122			

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: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L608240 - 3050B

MSD (L 97393-MSD-L608240)		Source: 97393			Prepared: 04/01/2022 Analyzed: 04/04/2022					
Arsenic	4.21	0.0855	mg/Kg	2.48	1.06	127	75-125	8.9	80	*
Barium	41.6	0.042	"	4.96	21.3	409	75-125	3.7	80	*
Cadmium	0.572	0.0259	"	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	*
Silver	0.534	0.0067	"	0.496	0.0203	104	75-125	1.8	80	

MS (L 97393-MS-L608240)		Source: 97393			Prepared: 04/01/2022 Analyzed: 04/04/2022					
Selenium	5.23	0.103	mg/Kg	4.78	0.2	105	75-125			
Silver	0.524	0.0067	"	0.478	0.0203	105	75-125			
Nickel	5.27	0.0633	"	2.39	1.61	153	75-125			*
Lead	8.57	0.031	"	2.39	3.48	213	75-125			*
Copper	5.44	0.0806	"	2.39	1.75	154	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			
Zinc	39.1	0.534	"	23.9	8.65	127	75-125			*

LCS (LCS-L608240)		Prepared: 04/01/2022 Analyzed: 04/04/2022								
Selenium	5.42	0.103	mg/Kg	5		108	80-120			
Silver	0.496	0.0067	"	0.5		99	80-120			
Arsenic	2.67	0.0855	"	2.5		107	80-120			
Barium	4.91	0.042	"	5		98	80-120			
Cadmium	0.483	0.0259	"	0.5		97	80-120			

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: C022-023
 Project: Noble - Lockman

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L608240 - 3050B

LCS (LCS-L608240)

Prepared: 04/01/2022 Analyzed: 04/06/2022

Copper	2.44	0.0806	mg/Kg	2.5		98	80-120			
Lead	2.45	0.031	"	2.5		98	80-120			
Zinc	24.5	0.534	"	25		98	80-120			
Nickel	2.47	0.0633	"	2.5		99	80-120			

LRB (LRB-L608240)

Prepared: 04/01/2022 Analyzed: 04/04/2022

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

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

Paul Henehan
 Project Number: C022-023
 Project: Noble - Lockman

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
Batch L609117 -										
DUP (L 97375-DUP)		Source: 97375			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	ND	0.502	mg/Kg		97375		-	0	20	
MS (L 97375-MS)		Source: 97375			Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	9.2	1.26	mg/Kg	8.26	97375	111	75-125			
LCS (LCS)					Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	7.47	0.244	mg/Kg	8		93	75-125			
LRB (LRB)					Prepared: Analyzed: 04/06/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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: C022-023
Project: Noble - Lockman

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.



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. Bynon, Project Manager