



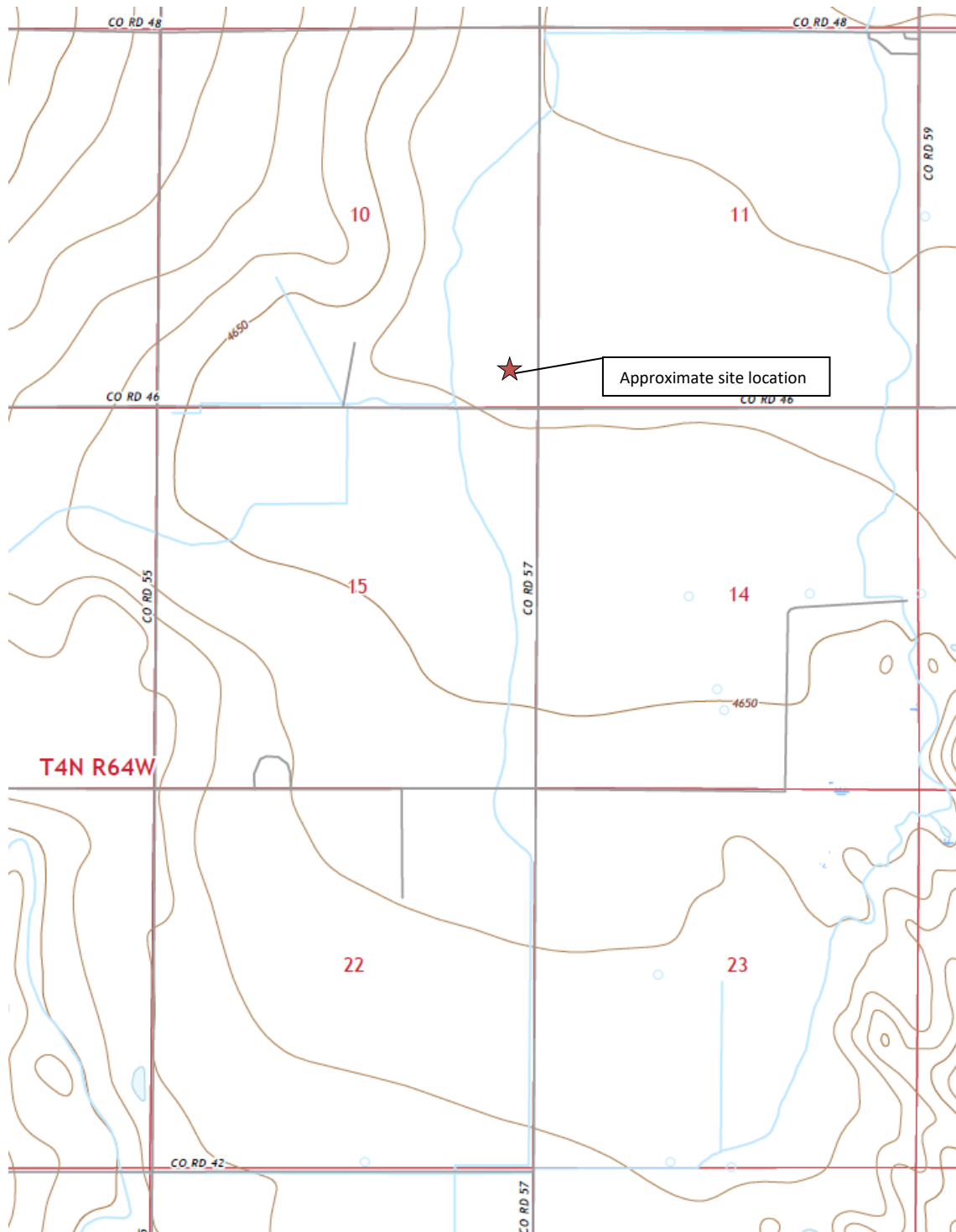
## **FIGURES**

**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



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.

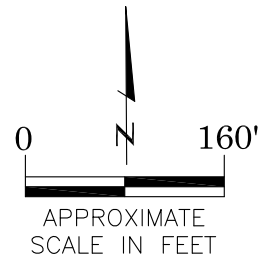
Source: USGS 7.5 Minute Topographic  
 Map, Valley View School, CO  
 Quadrangle 2019

**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

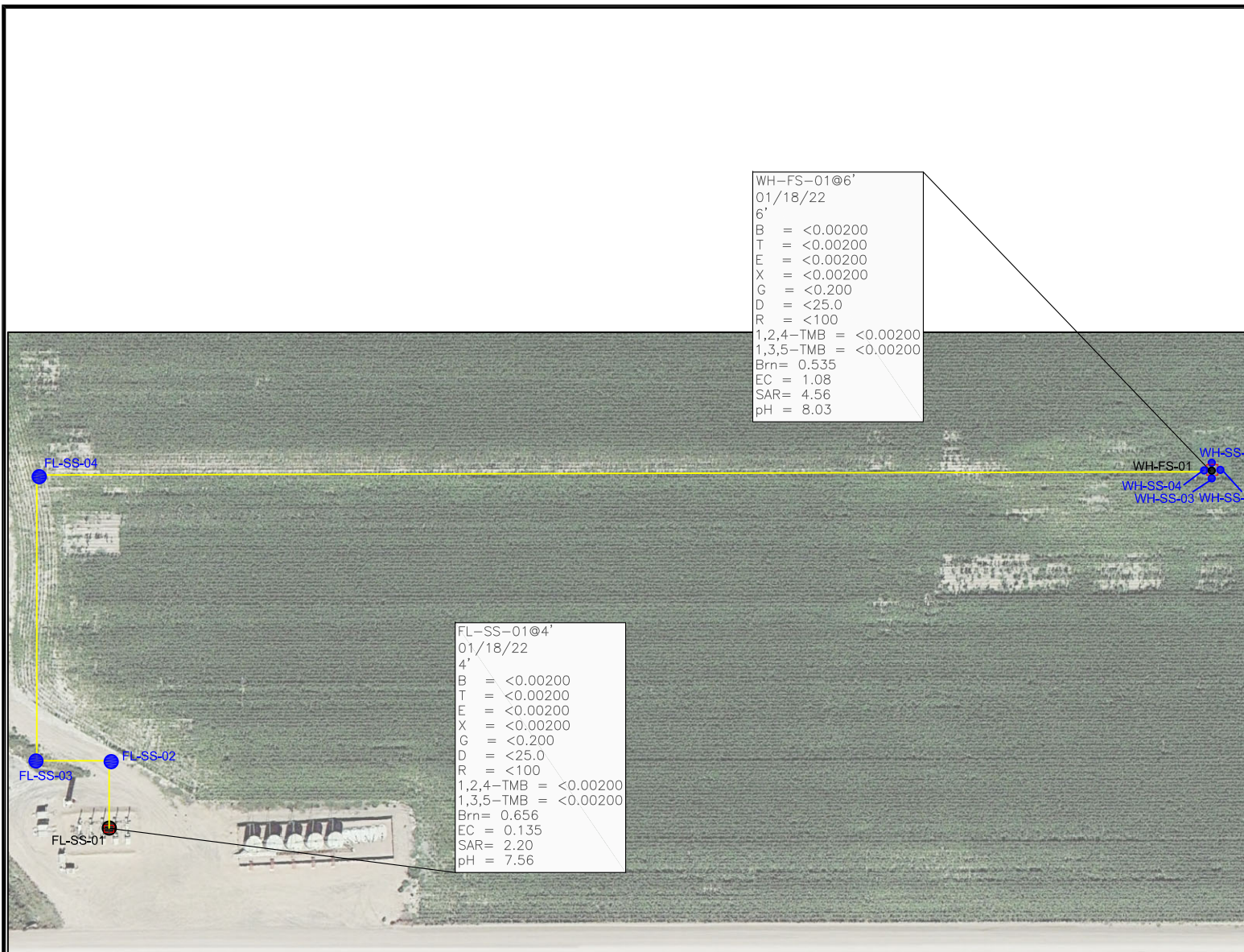
FIG. NO.  
 2

DRAWN BY:  
 AMN



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





# 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

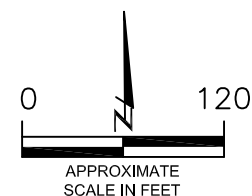
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

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  
REMEDATION # 19296

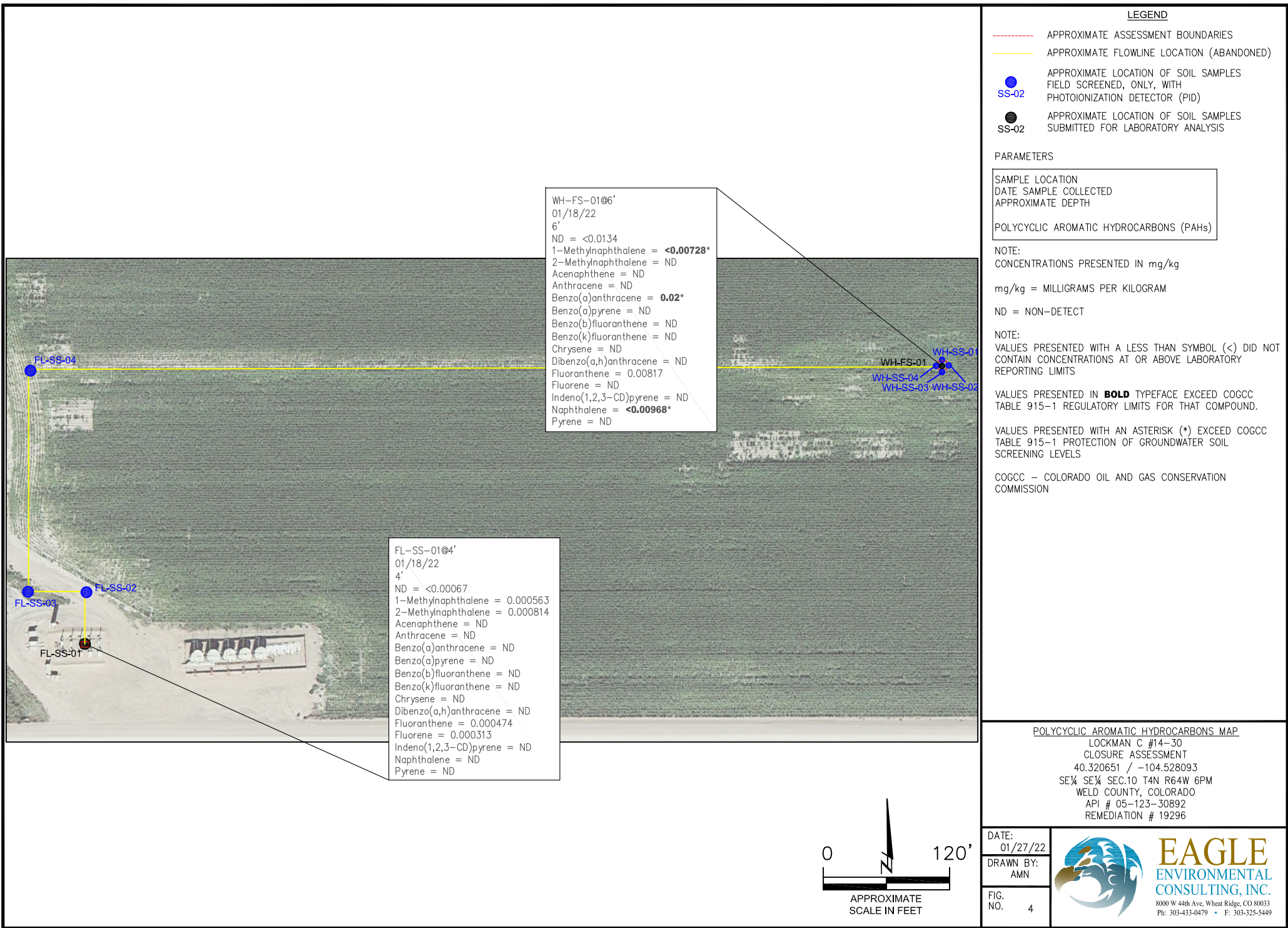
DATE:  
01/27/22  
DRAWN BY:  
AMN  
FIG.  
NO. 3



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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

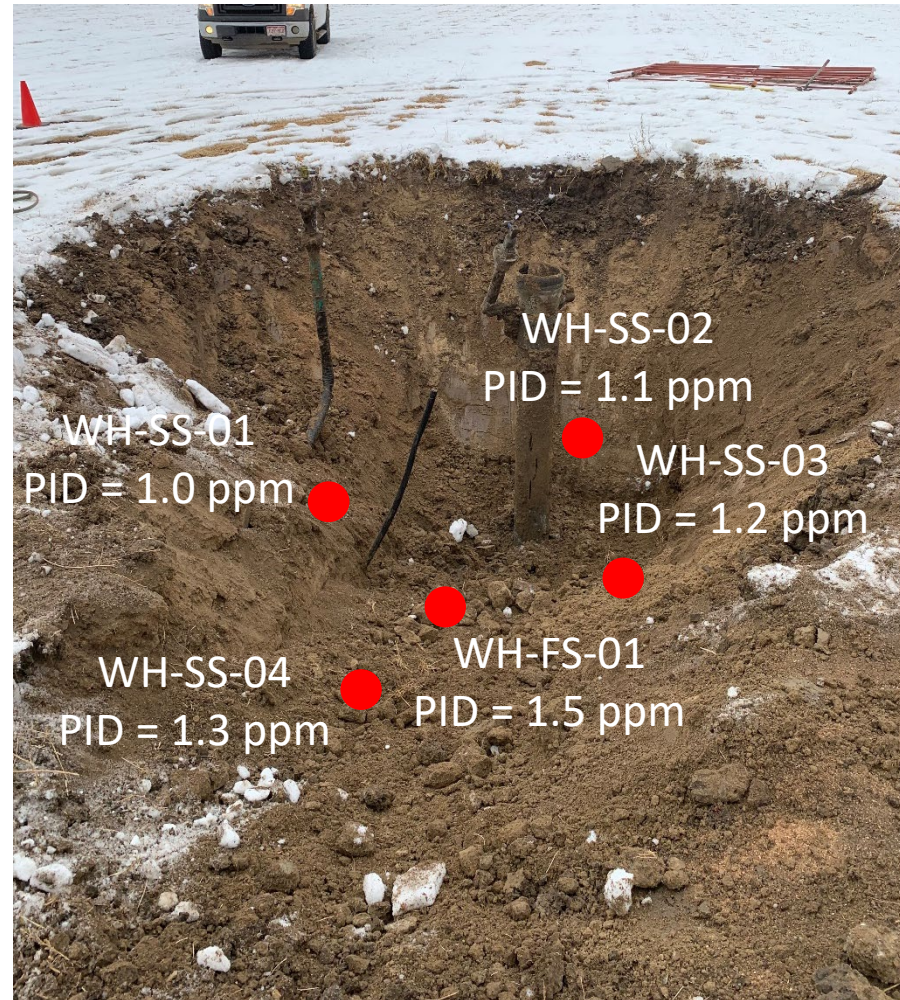


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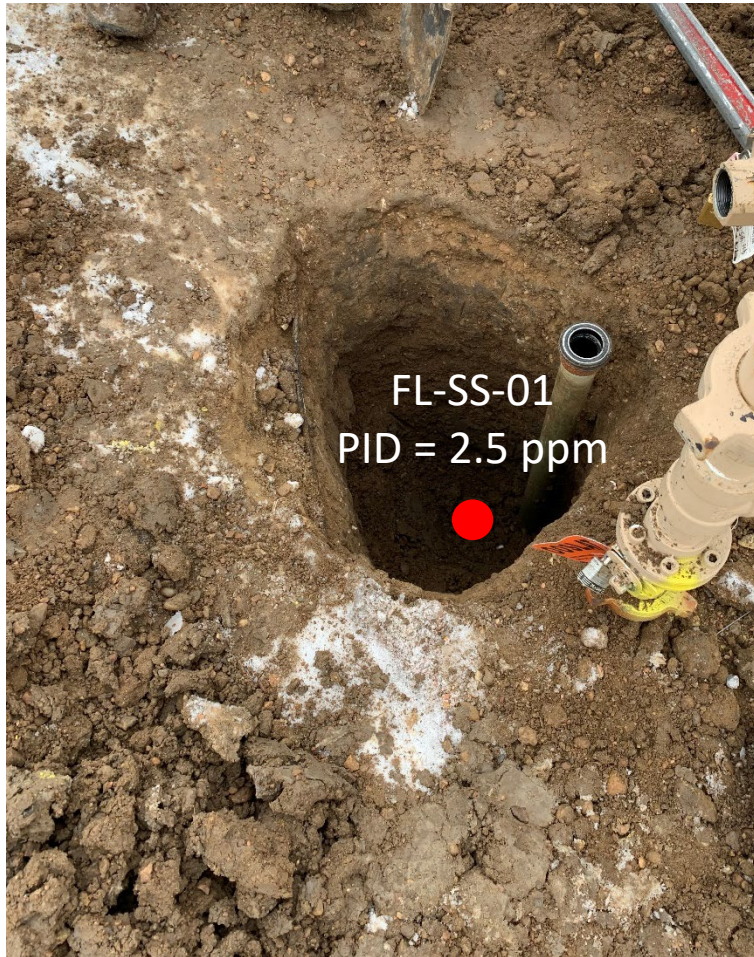
# Wellhead Excavation – 1/18/22



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



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



Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - 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

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

Date/time completed: 1/18/22

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1, 50.°c 1 °c 1 °c 1 °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) MD

Date/Time Reviewed 1/19/22

Origins Laboratory, Inc.

*Jordan A. Merrill*

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
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Origins Laboratory, Inc.  
Y201316-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.535	0.198	mg/L	1	B2A1909	01/19/2022	01/20/2022	
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### 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			"	"	"	
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### GBTEX+TMBs by 8260D

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

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



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

Martin C Eckert III  
Project Number: [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
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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
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**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
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**SAR by 20B Saturated Paste**

SAR	4.56			SAR	1	B2A1908	01/19/2022	01/20/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.08		0.00500	mmhos/cm	1	B2A1911	01/19/2022	01/20/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - 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
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**Origins Laboratory, Inc.**  
**Y201316-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.656	0.199	mg/L	1	B2A1909	01/19/2022	01/20/2022	
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**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			"	"	"
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**GBTEX+TMBs by 8260D**

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

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



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

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

Martin C Eckert III  
Project Number: [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
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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
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**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
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**SAR by 20B Saturated Paste**

SAR	0.135	SAR	1	B2A1908	01/19/2022	01/20/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.20	0.00500	mmhos/cm	1	B2A1911	01/19/2022	01/20/2022
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Origins Laboratory, Inc.



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



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

Martin C Eckert III  
Project Number: [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
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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.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - 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
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**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			

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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
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**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	
Surrogate: o-Terphenyl	40		"	49.8		81.4	50-150			

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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.



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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
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**Batch B2A2407 - EPA 5030 (soil)**

**LCS (B2A2407-BS1)**

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

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

Origins Laboratory, Inc.



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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
<b>Batch B2A2407 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B2A2407-MS1)</b>		<b>Source: Y201295-01</b>			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			

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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
<b>Batch B2A2407 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2A2407-MSD1)</b>		<b>Source: Y201295-01</b>			Prepared: 01/24/2022 Analyzed: 01/24/2022					
1,2,4-Trimethylbenzene	0.0811	0.00200	mg/kg	0.100	ND	81.1	70-130	4.98	20	
1,3,5-Trimethylbenzene	0.0814	0.00200	"	0.100	ND	81.4	70-130	6.03	20	
Benzene	0.0943	0.00200	"	0.100	ND	94.3	70-130	4.76	20	
Ethylbenzene	0.0832	0.00200	"	0.100	ND	83.2	70-130	5.31	20	
Naphthalene	0.0865	0.0100	"	0.100	0.000520	86.0	70-130	9.07	20	
Toluene	0.0849	0.00200	"	0.100	ND	84.9	70-130	4.45	20	
o-Xylene	0.0822	0.00200	"	0.100	ND	82.2	70-130	4.43	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.6	70-130	5.42	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.5	70-130			

Origins Laboratory, Inc.



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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
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## Saturated Paste - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B2A1910 - NO PREP

<b>Duplicate (B2A1910-DUP1)</b>		<b>Source: Y201315-01</b>		Prepared: 01/19/2022 Analyzed: 01/20/2022						
pH	8.12		pH Units		8.16			0.491	25	

#### Batch B2A1911 - NO PREP

<b>Blank (B2A1911-BLK1)</b>		Prepared: 01/19/2022 Analyzed: 01/20/2022								
Specific Conductance (EC)	0.000800	0.00500	mmhos/cm							
<b>Duplicate (B2A1911-DUP1)</b>		<b>Source: Y201315-01</b>		Prepared: 01/19/2022 Analyzed: 01/20/2022						
Specific Conductance (EC)	0.542	0.00500	mmhos/cm		0.613			12.4	25	

Origins Laboratory, Inc.



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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
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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	212	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			

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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
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**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			

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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
<b>Batch L595492 - 3550B</b>										
<b>LCS (LCS-L595492)</b>					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			
<b>LRB (LRB-L595492)</b>					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			

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - 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.



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