



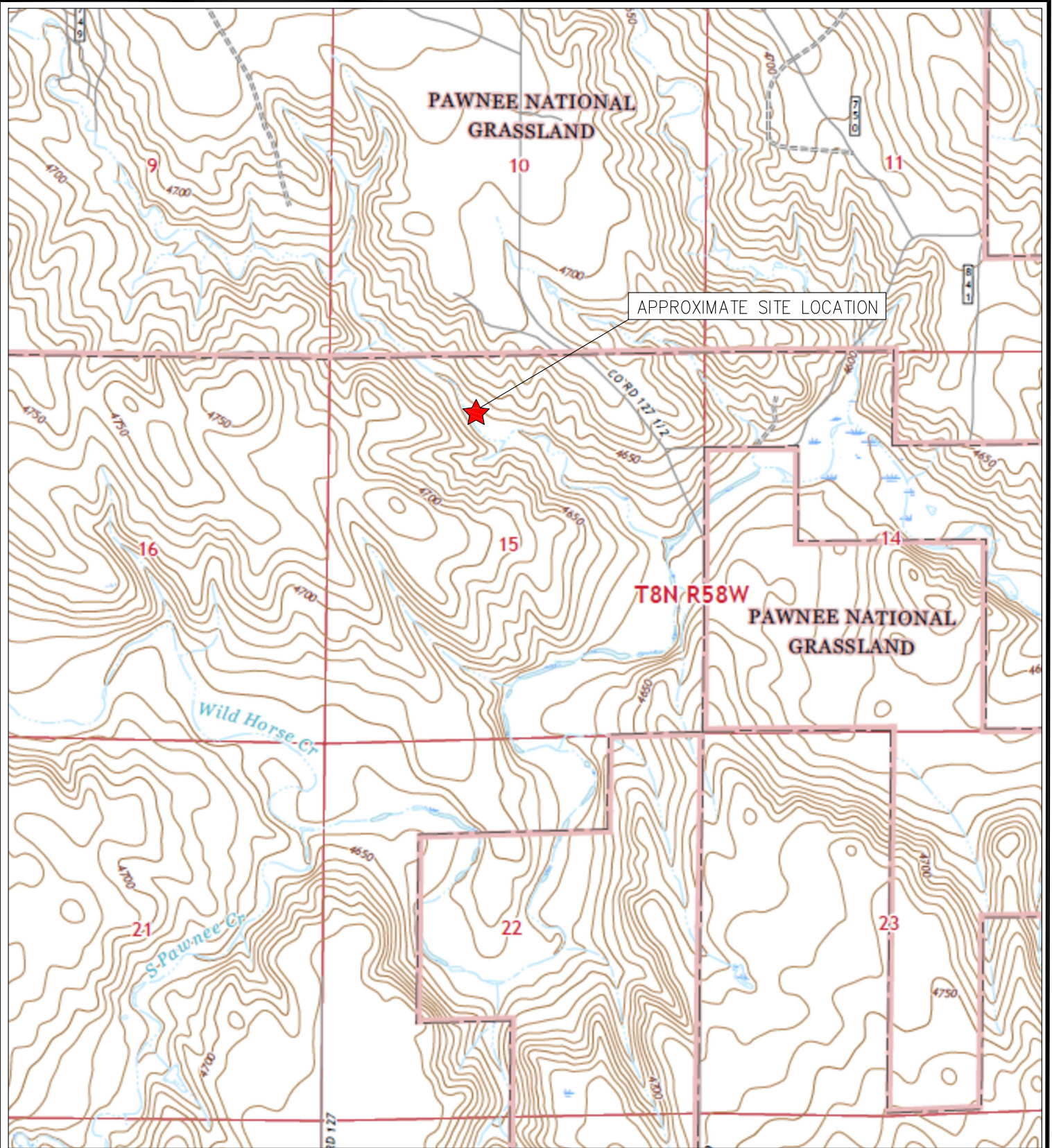
## **FIGURES**

**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  
 LILLI UNIT 3-15  
 HISTORICAL PIT ASSESSMENT  
 40.667526 / -103.851175  
 NE¼ NW¼ SEC.15 T8N R58W 6PM  
 WELD COUNTY, COLORADO  
 PIT ID 112054  
 REMEDIATION # 22468



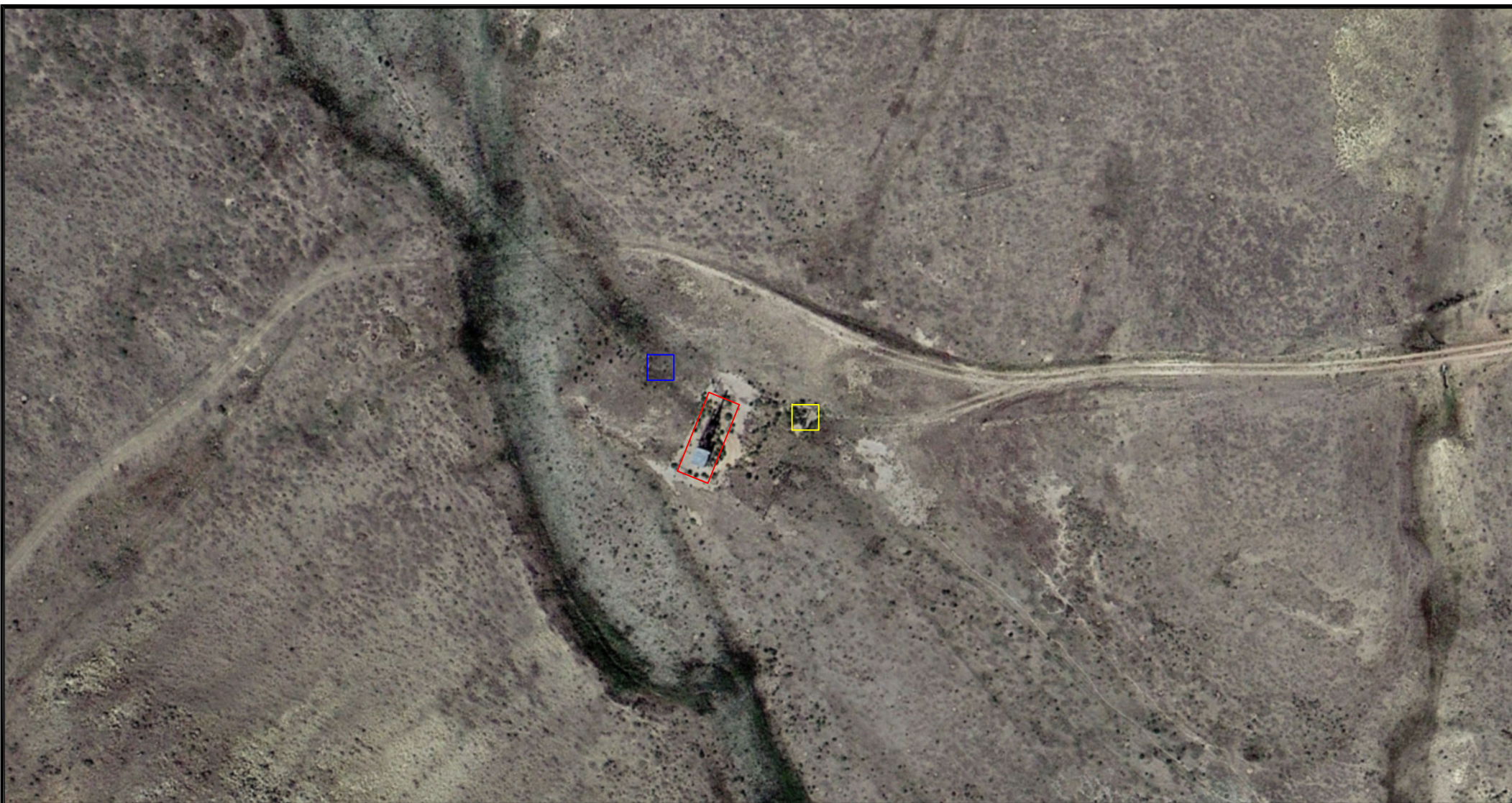
**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

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

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 RAYMER NE, CO QUADRANGLE 2022

FIGURE 1



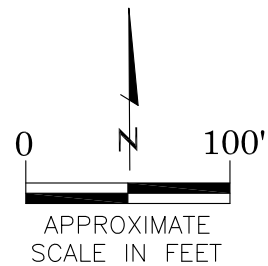


#### LEGEND

- FORMER LILLI UNIT 3-15 WELLHEAD (PLUGGED AND ABANDONED)
- FORMER PIT LOCATION\*
- CURRENT PIT LOCATION

#### NOTE:

\*PIT LOCATION & DIMENSIONS BASED ON GPS DATA AVAILABLE ON COGIS/PROVIDED TO EAGLE\*



#### AERIAL SITE LOCATION MAP

LILLI UNIT 3-15  
HISTORICAL PIT ASSESSMENT  
40.667526 / -103.851175  
NE¼ NW¼ SEC.15 T8N R58W 6PM  
WELD COUNTY, COLORADO  
PIT ID 112054  
REMEDATION # 22468

DRAWN BY:  
CT

FIGURE NO.  
2



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SB-01@5-7.5'  
11/22/22  
5-7.5'  
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 = <0.0991  
EC = 0.291  
SAR = 1.81  
pH = 8.14

#### LEGEND

- APPROXIMATE WELLHEAD LOCATION
- FORMER PIT LOCATION\*
- SOIL BORING LOCATION PER COGCC  
CONDITION OF APPROVAL  
SB-01 (40.667439 / -103.850798)

\*PIT LOCATION BASED ON AVAILABLE COGIS INFORMATION

#### 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** EXCEED ECMC TABLE 915-1  
REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP  
LILLI UNIT 3-15  
HISTORICAL PIT ASSESSMENT  
40.667526 / -103.851175  
NE¼ NW¼ SEC.15 T8N R58W 6PM  
WELD COUNTY, COLORADO  
PIT ID 112054  
REMEDIAL # 22468

DRAWN BY:  
CT  
FIGURE NO.  
3







#### LEGEND

- APPROXIMATE WELLHEAD LOCATION
- FORMER PIT LOCATION\*
- SOIL BORING LOCATION PER COGCC  
CONDITION OF APPROVAL  
SB-01 (40.667439 / -103.850798)

\*PIT LOCATION BASED ON AVAILABLE COGIS INFORMATION

#### PARAMETERS

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

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

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

VALUES PRESENTED WITH ASTERISK (\*) EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP  
LILLI UNIT 3-15  
HISTORICAL PIT ASSESSMENT  
40.667526 / -103.851175  
NE¼ NW¼ SEC.15 T8N R58W 6PM  
WELD COUNTY, COLORADO  
PIT ID 112054  
REMEDATION # 22468

DRAWN BY:  
CT

FIGURE NO.  
4



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



## **TABLES**

**Table 1: Soil Analytical Results Summary**

**Table 2: Polycyclic Aromatic Hydrocarbons Analytical Results Summary**

TABLE 1  
SOIL ANALYTICAL RESULTS SUMMARY  
LILLI UNIT 3-15  
HISTORICAL PIT ASSESSMENT  
40.667526 / -103.851175  
NE1/4 NW1/4 SEC.15 T8N R58W 6PM  
WELD COUNTY, COLORADO  
PIT ID 112054  
REMEDIATION # 22468

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
<b>ECMC Table 915-1 Residential Screening Levels (mg/kg)</b>				<b>1.20</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>30</b>	<b>27</b>	<b>2</b>	<b>&lt;4</b>	<b>6-8.3</b>	<b>&lt;6</b>
<b>ECMC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>--</b>			<b>0.0081</b>	<b>0.0087</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
SB-01 @ 5-7.5' (40.667439 / -103.850798)	11/22/22	5-7.5	5.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0991	0.291	8.14	1.81
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram      mg/L = milligrams per liter mmhos/cm = millimhos per centimeter PID = Photoionization Detector      TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics      1,2,4-TMB = 1,2,4-Trimethybenzene ppm-v = parts per million by volume      TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics      1,3,5-TMB = 1,3,5-Trimethybenzene MDL = Minimum Detection Limits      TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics SAR = Sodium Adsorption Ratio Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit. Note: Values presented in <b>BOLD</b> contained concentrations exceeding ECMC Table 915-1 Regulatory Limits.																

TABLE 2  
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY  
LILLI UNIT 3-15  
HISTORICAL PIT ASSESSMENT  
40.667526 / -103.851175  
NE1/4 NW1/4 SEC.15 T8N R58W 6PM  
WELD COUNTY, COLORADO  
PIT ID 112054  
REMEDIATION # 22468

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
<b>ECMC Table 915-1 Residential Screening Levels</b>				<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>2</b>	<b>180</b>
<b>ECMC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.006</b>	<b>0.019</b>	<b>0.55</b>	<b>5.8</b>	<b>0.011</b>	<b>0.24</b>	<b>0.3</b>	<b>2.9</b>	<b>9</b>	<b>0.096</b>	<b>8.9</b>	<b>0.54</b>	<b>0.98</b>	<b>0.0038</b>	<b>1.3</b>
SB-01 @ 5-7.5' (40.667439 / -103.850798)	11/22/22	5-7.5	5.8	<b>0.0374*</b>	<b>0.067*</b>	0.335	0.537	<b>0.629*</b>	<b>0.44*</b>	<b>0.419*</b>	0.189	0.628	0.096	1.8	0.402	0.268	<b>0.247*</b>	<b>1.35*</b>
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram      ppm-v = parts per million by volume      MDL = Minimum Detection Limit Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit. Note: Values presented in BOLD contained concentrations exceeding ECMC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed ECMC Table 915-1 Protection of Groundwater Soil Screening Levels for that compound.																		





## **ATTACHMENT A**

### **Soil Boring Log**

# Boring Log/Well Completion Diagram: SB-01

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-7.5') gravelly SAND - light brown, dry, loose, medium to coarse grained, well-graded with ~25% large gravel, N/O, N/S	SW	DP	1	90	3.0	N/A			
						3.8				
5	(7.5-9') weathered CLAYSTONE - molted brown, dry, hard to very hard, medium plasticity, N/O, N/S	CL	DP	2	80	5.8	N/A	5		
	(9-9.5') consolidated CLAYSTONE - brown, dry, very hard					1.9				
10	Refusal/BoB @ 9.5'							10		
15								15		
20								20		
25								25		
30										

HA - Hand Auger  
DP - Direct Push  
HC - Hydrocarbon  
BoB - Bottom of Boring  
N/O - no odor  
N/S - no staining  
TOC - top of casing  
bgs - below ground surface

START/COMPLETION DATE: 11/22/22

SAND PACK INTERVAL (FEET): N/A

PROJECT: LILLI UNIT 3-15

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: C. TRIPLETT

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 9.5

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000 - PID #6

TIME STARTED/COMPLETED: 1000/1010

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1005



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC

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





## **ATTACHMENT B**

### **Laboratory Analytical Report**



December 05, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Lilli Unit #3-15**

**Project Number - [none]**

Attached are your analytical results for Noble - Lilli Unit #3-15 received by Origins Laboratory, Inc. November 22, 2022. This project is associated with Origins project number Y211525-01.

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 - Lilli Unit #3-15

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@5'-7.5'	Y211525-01	Soil	November 22, 2022 10:05	11/22/2022 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.*

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

www.originslaboratory.com

page 1 of 1

42155

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0474  
Email Address: mce3@eagle-enviro.com

Project Manager: Martin Eckert III  
Project Name: Lilli Unit 3-15  
Project Number: -  
Samples Collected By: CT IM

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers				Preservative			Matrix			Analysis	Sample Instructions
			Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	At Summa	Other				
56-01 0.5-75'	11/22/12	1005	2	X						X			X	EU SAT pH = 1
													X	Saturated paste prep 2
													X	3
													X	4
													X	5
													X	6
													X	7
													X	8
													X	9
													X	10

Relinquished By: [Signature]  
Relinquished By: [Signature]

Received By: [Signature]  
Received By: [Signature]

Date: 11/22/12  
Date: 11/22/12

Time: 1430  
Time: 1430

Turnaround Time:  
Same Day ☐ 24 Hr ☐  
48 Hr ☐ 72 Hr ☐  
Standard ☒

Temp Received: 2.4  
Date Results Needed: Noble

Origins Laboratory, Inc.

*Bynon*

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 - Lilli Unit #3-15

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4211525

Client: Eagle Environmental

Client Project ID: Lilli Unit 3-15

Checklist Completed by: JSH/eks

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

Date/time completed: 11/22/22

Airbill #: n/a

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

Cooler Number/Temperature: 1124 °C      °C      °C (Describe)      °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<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: JEB (Project Manager)

Date/Time Reviewed: 11-23-22

Origins Laboratory, Inc.

*J. Bynon*

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 - Lilli Unit #3-15

## SB-01@5'-7.5'

11/22/2022 10:05:00AM

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

## Origins Laboratory, Inc. Y211525-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B2K2310	11/23/2022	11/28/2022	
-------	----	--------	------	---	---------	------------	------------	--

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K2226	11/22/2022	11/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.7 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K2338	11/23/2022	11/30/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

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

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 - Lilli Unit #3-15

SB-01@5'-7.5'

11/22/2022 10:05:00AM

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

Origins Laboratory, Inc.  
Y211525-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B2K23 38	11/23/2022	11/30/2022
Surrogate: 4-Bromofluorobenzene	91.2 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	1.05	0.499	meq/L	10	[CALC]	11/23/2022	11/29/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.54	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.0374	0.00109	0.00201	mg/Kg	1	L650756	11/28/2022	11/29/2022
2-Methylnaphthalene	0.067	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.335	0.000304	0.00067	"	"	"	"	"
Anthracene	0.537	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.629	0.00493	0.0067	"	10	"	"	"
Benzo(a)pyrene	0.44	0.000468	0.00067	"	1	"	"	"
Benzo(b)fluoranthene	0.419	0.00585	0.0067	"	10	"	"	"
Benzo(k)fluoranthene	0.189	0.00437	0.0067	"	"	"	"	"
Chrysene	0.628	0.000624	0.00067	"	1	"	"	"
Dibenz(a,h)anthracene	0.096	0.000614	0.00067	"	"	"	"	"
Fluoranthene	1.8	0.00394	0.0067	"	10	"	"	"
Fluorene	0.402	0.000286	0.00067	"	1	"	"	"
Indeno(1,2,3-cd)pyrene	0.268	0.000627	0.00067	"	"	"	"	"

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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 - Lilli Unit #3-15

## SB-01@5'-7.5'

11/22/2022 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC. Y211525-01 (Soil)

### PAH by 8270D SIM

Naphthalene	0.247	0.00145	0.00201	mg/Kg	1	L650756	11/28/2022	11/29/2022
Pyrene	1.35	0.00643	0.0067	"	10	"	"	"

Surrogate: 2-Fluorobiphenyl	43.7 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	51.7 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	41.6 %		29-110			"	"	"

### pH in Soil by 9045D

pH	8.14			pH Units	1	B2K2312	11/23/2022	11/29/2022
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### SAR by 20B Saturated Paste

SAR	1.81			SAR	1	B2K2304	11/23/2022	11/29/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.291		0.00500	mmhos/cm	1	B2K2316	11/23/2022	11/29/2022
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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

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 B2K2226 - EPA 3580										
Blank (B2K2226-BLK1)					Prepared: 11/22/2022 Analyzed: 11/22/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	36		"	24.9		145	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

## 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 B2K2226 - EPA 3580

### LCS (B2K2226-BS1)

Prepared: 11/22/2022 Analyzed: 11/22/2022

Diesel (C10-C28)	551	25.0	mg/kg	500		110	70-130			
Residual Range Organics (C28-C40)	452	100	"	500		90.4	70-130			
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

**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 B2K2226 - EPA 3580

Matrix Spike (B2K2226-MS1)		Source: Y211537-01			Prepared: 11/22/2022 Analyzed: 11/22/2022					
Diesel (C10-C28)	562	25.0	mg/kg	500	ND	112	70-130			
Residual Range Organics (C28-C40)	480	100	"	500	30.4	89.9	70-130			
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

Origins Laboratory, Inc.



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Project Number: [none]  
Project: Noble - Lilli Unit #3-15

## 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 B2K2226 - EPA 3580

Matrix Spike Dup (B2K2226-MSD1)		Source: Y211537-01			Prepared: 11/22/2022 Analyzed: 11/22/2022					
Diesel (C10-C28)	611	25.0	mg/kg	500	ND	122	70-130	8.50	35	
Residual Range Organics (C28-C40)	498	100	"	500	30.4	93.5	70-130	3.71	35	
Surrogate: o-Terphenyl	29		"	24.9		115	50-150			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2K2338 - EPA 5030 (soil)</b>										
<b>Blank (B2K2338-BLK1)</b>					Prepared: 11/23/2022 Analyzed: 11/29/2022					
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	0.00380	"							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		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.3	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

**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 B2K2338 - EPA 5030 (soil)</b>										
<b>LCS (B2K2338-BS1)</b>					Prepared: 11/23/2022 Analyzed: 11/29/2022					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.0908	0.00200	"	0.100		90.8	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.0902	0.00380	"	0.100		90.2	70-130			
Toluene	0.0958	0.00200	"	0.100		95.8	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.226	0.00400	"	0.200		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

**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 B2K2338 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B2K2338-MS1)</b>		<b>Source: Y211516-01</b>			Prepared: 11/23/2022 Analyzed: 11/29/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Benzene	0.0968	0.00200	"	0.100	ND	96.8	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.0956	0.00380	"	0.100	0.00138	94.2	70-130			
Toluene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
o-Xylene	0.0981	0.00200	"	0.100	ND	98.1	70-130			
m,p-Xylene	0.209	0.00400	"	0.200	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 - Lilli Unit #3-15

## 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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## Classical Chemistry Parameters - 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 B2K2304 - Saturated Paste Metals

##### Blank (B2K2304-BLK1)

Prepared: 11/23/2022 Analyzed: 11/29/2022

SAR	0.00		SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

##### Duplicate (B2K2304-DUP1)

Source: Y211525-01

Prepared: 11/23/2022 Analyzed: 11/29/2022

Calcium PPM	20.4	10.0	mg/L	21.1	3.38	50
SAR	0.00		SAR	1.81	200	200
Magnesium PPM	4.34	10.0	mg/L	4.93	12.6	50
Sodium PPM	32.9	10.0	"	35.5	7.58	50

#### Batch B2K2310 - DTPA Sorbitol Preparation

##### Blank (B2K2310-BLK1)

Prepared: 11/23/2022 Analyzed: 11/28/2022

Boron	ND	0.100	mg/L
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##### Duplicate (B2K2310-DUP1)

Source: Y211514-01

Prepared: 11/23/2022 Analyzed: 11/28/2022

Boron	ND	0.988	mg/L	ND	50
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2K2312 - Saturated Paste pH/EC</b>										
<b>Duplicate (B2K2312-DUP1)</b>		<b>Source: Y211525-01</b>			Prepared: 11/23/2022 Analyzed: 11/29/2022					
pH	8.01		pH Units		8.14			1.61	25	
<b>Batch B2K2316 - Saturated Paste pH/EC</b>										
<b>Blank (B2K2316-BLK1)</b>		Prepared: 11/23/2022 Analyzed: 11/29/2022								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B2K2316-DUP1)</b>		<b>Source: Y211525-01</b>			Prepared: 11/23/2022 Analyzed: 11/29/2022					
Specific Conductance (EC)	0.280	0.00500	mmhos/cm		0.291			3.72	25	

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L650756 - 3550B**

MSD (L 94659-MSD-L650756)		Source: 94659			Prepared: 11/28/2022 Analyzed: 11/29/2022					
2-Methylnaphthalene	0.08	0.00201	mg/Kg	0.164	0.00748	44.2	30-130	27.9	30	
Fluorene	0.117	0.00067	"	0.164	0.0531	38.9	30-130	28.5	30	
Pyrene	0.245	0.00067	"	0.164	0.24	3	30-130	36.6	30	*
Indeno(1,2,3-cd)pyrene	0.114	0.00067	"	0.164	0.0524	37.5	30-130	25.9	30	
Fluoranthene	0.299	0.00067	"	0.164	0.311	NR	30-130	38.5	30	*
Dibenz(a,h)anthracene	0.103	0.00067	"	0.164	0.0182	51.7	30-130	20.8	30	
Chrysene	0.153	0.00067	"	0.164	0.0975	33.8	30-130	32.7	30	*
Naphthalene	0.0933	0.00201	"	0.164	0.0245	41.9	30-130	24.2	30	
1-Methylnaphthalene	0.0802	0.00201	"	0.164	0.00498	45.8	30-130	22.9	30	
Benzo(k)fluoranthene	0.104	0.00067	"	0.164	0.0448	36	30-130	18.3	30	
Acenaphthene	0.113	0.00067	"	0.164	0.0462	40.7	30-130	23.4	30	
Anthracene	0.128	0.00067	"	0.164	0.0677	36.7	30-130	28.7	30	
Benzo(a)anthracene	0.159	0.00067	"	0.164	0.112	28.6	30-130	35.6	30	*
Benzo(a)pyrene	0.136	0.00067	"	0.164	0.0766	36.2	30-130	29.4	30	
Benzo(b)fluoranthene	0.158	0.00067	"	0.164	0.107	31	30-130	35.8	30	*
Surrogate: 2-Fluorobiphenyl	45.7		"	0.328	158	45.7	33-115			
Surrogate: Nitrobenzene-d5	42.9		"	0.328	196	42.9	29-110			
Surrogate: 4-Terphenyl-d14	51.5		"	0.328	193	51.5	33-122			

MS (L 94659-MS-L650756)		Source: 94659			Prepared: 11/28/2022 Analyzed: 11/29/2022					
Benzo(k)fluoranthene	0.125	0.00067	mg/Kg	0.166	0.0448	48.3	30-130			
Acenaphthene	0.143	0.00067	"	0.166	0.0462	58.3	30-130			
Naphthalene	0.119	0.00201	"	0.166	0.0245	56.9	30-130			
Indeno(1,2,3-cd)pyrene	0.148	0.00067	"	0.166	0.0524	57.5	30-130			
Fluorene	0.156	0.00067	"	0.166	0.0531	61.9	30-130			
Fluoranthene	0.442	0.00067	"	0.166	0.311	78.9	30-130			
Dibenz(a,h)anthracene	0.127	0.00067	"	0.166	0.0182	65.5	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L650756 - 3550B**

MS (L 94659-MS-L650756)		Source: 94659			Prepared: 11/28/2022 Analyzed: 11/29/2022					
Chrysene	0.213	0.00067	mg/Kg	0.166	0.0975	69.5	30-130			
1-Methylnaphthalene	0.101	0.00201	"	0.166	0.00498	57.8	30-130			
Benzo(a)pyrene	0.183	0.00067	"	0.166	0.0766	64	30-130			
Anthracene	0.171	0.00067	"	0.166	0.0677	62.2	30-130			
Pyrene	0.355	0.00067	"	0.166	0.24	69.2	30-130			
2-Methylnaphthalene	0.106	0.00201	"	0.166	0.00748	59.3	30-130			
Benzo(b)fluoranthene	0.227	0.00067	"	0.166	0.107	72.2	30-130			
Benzo(a)anthracene	0.228	0.00067	"	0.166	0.112	69.8	30-130			
Surrogate: Nitrobenzene-d5	42.7		"	0.332	196	42.7	29-110			
Surrogate: 4-Terphenyl-d14	52.1		"	0.332	193	52.1	33-122			
Surrogate: 2-Fluorobiphenyl	44.8		"	0.332	158	44.8	33-115			

LCS (LCS-L650756)		Prepared: 11/28/2022 Analyzed: 11/29/2022								
Chrysene	0.104	0.00067	mg/Kg	0.167		62.2	30-130			
Dibenz(a,h)anthracene	0.132	0.00067	"	0.167		79	30-130			
Fluoranthene	0.0892	0.00067	"	0.167		53.4	30-130			
Fluorene	0.106	0.00067	"	0.167		63.4	30-130			
Indeno(1,2,3-cd)pyrene	0.117	0.00067	"	0.167		70	30-130			
Naphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Benzo(k)fluoranthene	0.115	0.00067	"	0.167		68.8	30-130			
Pyrene	0.0867	0.00067	"	0.167		51.9	30-130			
Benzo(a)pyrene	0.103	0.00067	"	0.167		61.6	30-130			
Benzo(a)anthracene	0.103	0.00067	"	0.167		61.6	30-130			
Anthracene	0.105	0.00067	"	0.167		62.8	30-130			
Acenaphthene	0.0963	0.00067	"	0.167		57.6	30-130			
2-Methylnaphthalene	0.1	0.00201	"	0.167		59.8	30-130			
1-Methylnaphthalene	0.104	0.00201	"	0.167		62.2	30-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #3-15

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L650756 - 3550B</b>										
<b>LCS (LCS-L650756)</b>					Prepared: 11/28/2022 Analyzed: 11/29/2022					
Benzo(b)fluoranthene	0.104	0.00067	mg/Kg	0.167		62.2	30-130			
Surrogate: Nitrobenzene-d5	51		"	0.333		51	29-110			
Surrogate: 4-Terphenyl-d14	54.9		"	0.333		54.9	33-122			
Surrogate: 2-Fluorobiphenyl	56.4		"	0.333		56.4	33-115			
<b>LRB (LRB-L650756)</b>					Prepared: 11/28/2022 Analyzed: 11/29/2022					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	58.2		"	0.333		58.2	29-110			
Surrogate: 4-Terphenyl-d14	67.5		"	0.333		67.5	33-122			
Surrogate: 2-Fluorobiphenyl	57.9		"	0.333		57.9	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 - Lilli Unit #3-15

### Notes and Definitions

U Sample is Non-Detect.

\* 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.*