

## Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure
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Site Name & COGCC Facility Number: Lilli Unit #8-7	Date: 4-26-22	Remediation Project #: 21643
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Associated Wells: 05-123-13911	Age of Site: years	Number of Photos Attached: 1
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Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.678940 1 - 103.898970	Estimated Facility Size (acres):
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General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)  
Good Condition

USCS Soil Type: SW	Estimated Depth to Groundwater: > 20'
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Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
None observed

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

Wellhead(s)						
Well API	05-123-13911					
Age	years					
Condition of surface around wellhead	Good - Per Crew					
PID Readings	N/A - Excavated upon arrival					
Condition of subsurface (staining, odor)	Good - no staining / no odor					
PID Readings	0.9	0.1	0.8	0.8	2.6	
Sample taken? Location/Sample ID	WH-SS-01@6'	WH-SS-02@6'	WH-SS-03@6'	WH-SS-04@6'	WH-SS-01@7'	
Photo Number(s)	See photolog					

Other observations regarding wellheads:  
Well casing cut/capped following assessment

### Summary

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

Total number of samples field screened: 5	Total number of samples collected: 5
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Highest PID Reading: 2.6	Total number of samples submitted to lab for analysis: 1
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If more than 10 cubic yards of impacted soil were observed:

Vertical extent:	Estimated spill volume:
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Lateral extent:	Volume of soil removed:
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Is additional investigation required? N/A

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

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

Date Groundwater was encountered:	Commencement date of removal:
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Shoen on groundwater?      Yes      No	Volume of groundwater removed prior to sampling:
--	--

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

Total number of samples collected:	Total Volume of groundwater removed:
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Total number of samples submitted to lab for analysis:	
--	--



## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**



**Topographic Site Location Map**

Lilli Unit #8-7  
 Closure Assessment  
 40.678940 / -103.898970  
 SE¼ NE¼ SEC 7 T8N R58W 6PM  
 Weld County, Colorado  
 API # 05-123-13911  
 Remediation # 21643



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.

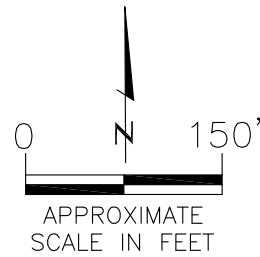
Source: USGS 7.5 Minute Topographic Map, Raymer NW, CO Quadrangle 2022

**Figure 1**



LEGEND

 FORMER LILLI UNIT #8-7 WELLHEAD (PLUGGED AND ABANDONED)



AERIAL SITE LOCATION MAP  
LILLI UNIT #8-7  
CLOSURE ASSESSMENT  
40.678940 / -103.898970  
SE $\frac{1}{4}$  NE $\frac{1}{4}$  SEC.7 T8N R58W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13911  
REMEDIAION # 21643

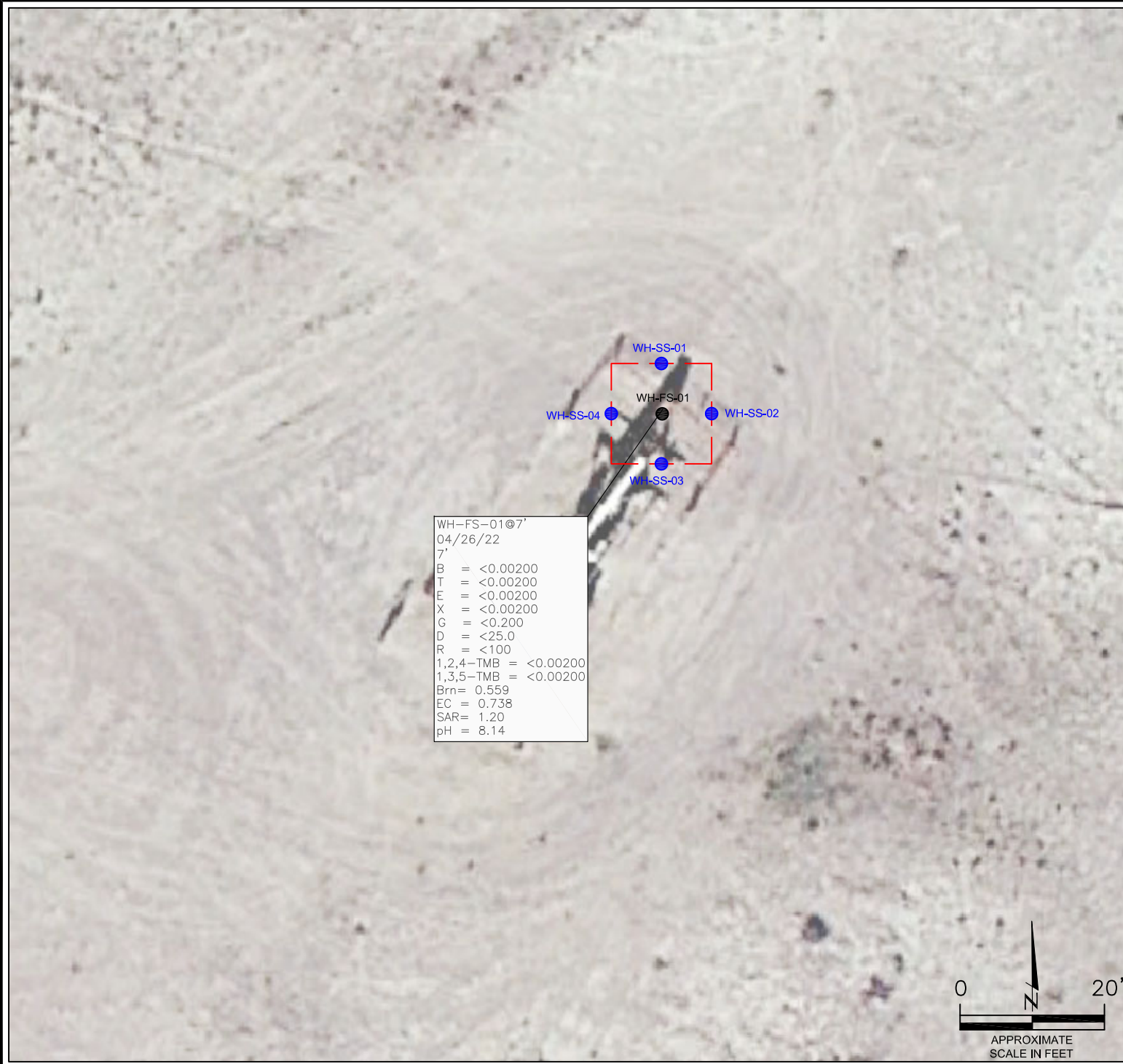
DATE:  
10/11/22

FIG. NO.  
2

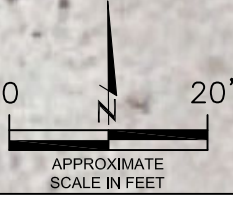
DRAWN BY:  
CT



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



WH-FS-01@7'	
04/26/22	
7'	
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	= 0.559
EC	= 0.738
SAR	= 1.20
pH	= 8.14



**LEGEND**

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

**PARAMETERS**

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

mg/kg = MILLIGRAMS PER KILOGRAM  
 mg/L = MILLIGRAMS PER LITER  
 mmhos/cm = MILLIHOS 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 COGCC TABLE 915-1 REGULATORY LIMITS

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

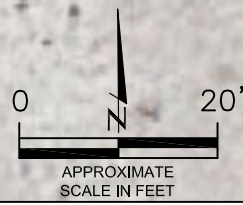
SOIL ANALYTICAL MAP  
 LILLI UNIT #8-7  
 CLOSURE ASSESSMENT  
 40.678940 / -103.898970  
 SE¼ NE¼ SEC.7 T8N R58W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13911  
 REMEDIATION # 21643

DATE:  
10/11/22  
 DRAWN BY:  
CT  
 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@7'  
 04/26/22  
 7'  
 ND = <0.00067  
 1-Methylnaphthalene = 0.00448  
 2-Methylnaphthalene = ND  
 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 = ND  
 Fluorene = 0.00308  
 Indeno(1,2,3-CD)pyrene = ND  
 Naphthalene = ND  
 Pyrene = ND



**LEGEND**

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

PARAMETERS

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

NOTE:  
 CONCENTRATIONS PRESENTED IN mg/kg  
 mg/kg = MILLIGRAMS PER KILOGRAM  
 ND = NON-DETECT

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

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS  
 COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

LILLI UNIT #8-7  
 CLOSURE ASSESSMENT  
 40.678940 / -103.898970  
 SE¼ NE¼ SEC.7 T8N R58W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13911  
 REMEDIATION # 21643

DATE:  
 10/11/22  
 DRAWN BY:  
 CT  
 FIG.  
 NO. 4

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



## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

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

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**LILLI UNIT #8-7**  
**CLOSURE ASSESSMENT**  
**40.678940 / -103.898970**  
**SE1/4 NE1/4 SEC.7 T8N R58W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13911**  
**REMEDIATION # 21643**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 6' (40.678974 / -103.898957)	04/26/22	6	0.9	N
WH-SS-02 @ 6' (40.678955 / -103.898932)	04/26/22	6	0.1	N
WH-SS-03 @ 6' (40.678937 / -103.898955)	04/26/22	6	0.8	N
WH-SS-04 @ 6' (40.678955 / -103.898981)	04/26/22	6	0.8	N
WH-FS-01 @ 7' (40.678952 / -103.898958)	04/26/22	7	2.6	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector				

**TABLE 2**  
**SOIL ANALYTICAL RESULTS SUMMARY**  
**LILLI UNIT #8-7**  
**CLOSURE ASSESSMENT**  
**40.678940 / -103.898970**  
**SE1/4 NE1/4 SEC.7 T8N R58W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13911**  
**REMEDIAION # 21643**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
<b>COGCC Table 915-1 Residential Screening Levels (mg/kg)</b>				<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>COGCC 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>
WH-FS-01 @ 7' (40.678952 / -103.898958)	04/26/22	7	2.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.559	0.738	8.14	1.20

COGCC = Colorado Oil and Gas Conservation Commission  
 mg/kg = milligrams per kilogram  
 mmhos/cm = millimhos per centimeter  
 PID = Photoionization Detector  
 ppm-v = parts per million by volume  
 mg/L = milligrams per liter  
 SAR = Sodium Adsorption Ratio

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics  
 TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics  
 TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics

1,2,4-TMB = 1,2,4-Trimethylbenzene  
 1,3,5-TMB = 1,3,5-Trimethylbenzene

MDL = Minimum Detection Limits

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 COGCC Table 915-1 Regulatory Limits.

TABLE 3  
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY  
LILLI UNIT #8-7  
CLOSURE ASSESSMENT  
40.678940 / -103.898970  
SE1/4 NE1/4 SEC.7 T8N R58W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13911  
REMEDIAION # 21643

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm- v)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>2</b>	<b>180</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.006</b>	<b>0.019</b>	<b>0.55</b>	<b>5.8</b>	<b>0.011</b>	<b>0.24</b>	<b>0.3</b>	<b>2.9</b>	<b>9</b>	<b>0.096</b>	<b>8.9</b>	<b>0.54</b>	<b>0.98</b>	<b>0.0038</b>	<b>1.3</b>
WH-FS-01 @ 7' (40.678952 / -103.898958)	04/26/22	7	2.6	0.00448	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	0.00308	<0.0067	<0.0067	<0.0067

COGCC = Colorado Oil and Gas Conservation Commission      PID = Photoionization Detector  
mg/kg = milligrams per kilogram      ppm-v = parts per million by volume  
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.  
Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits.



## **ATTACHMENT A**

### **Photo Log**

Lilli Unit #8-7  
API # 05-123-13911  
Remediation # 21643

Closure Assessment

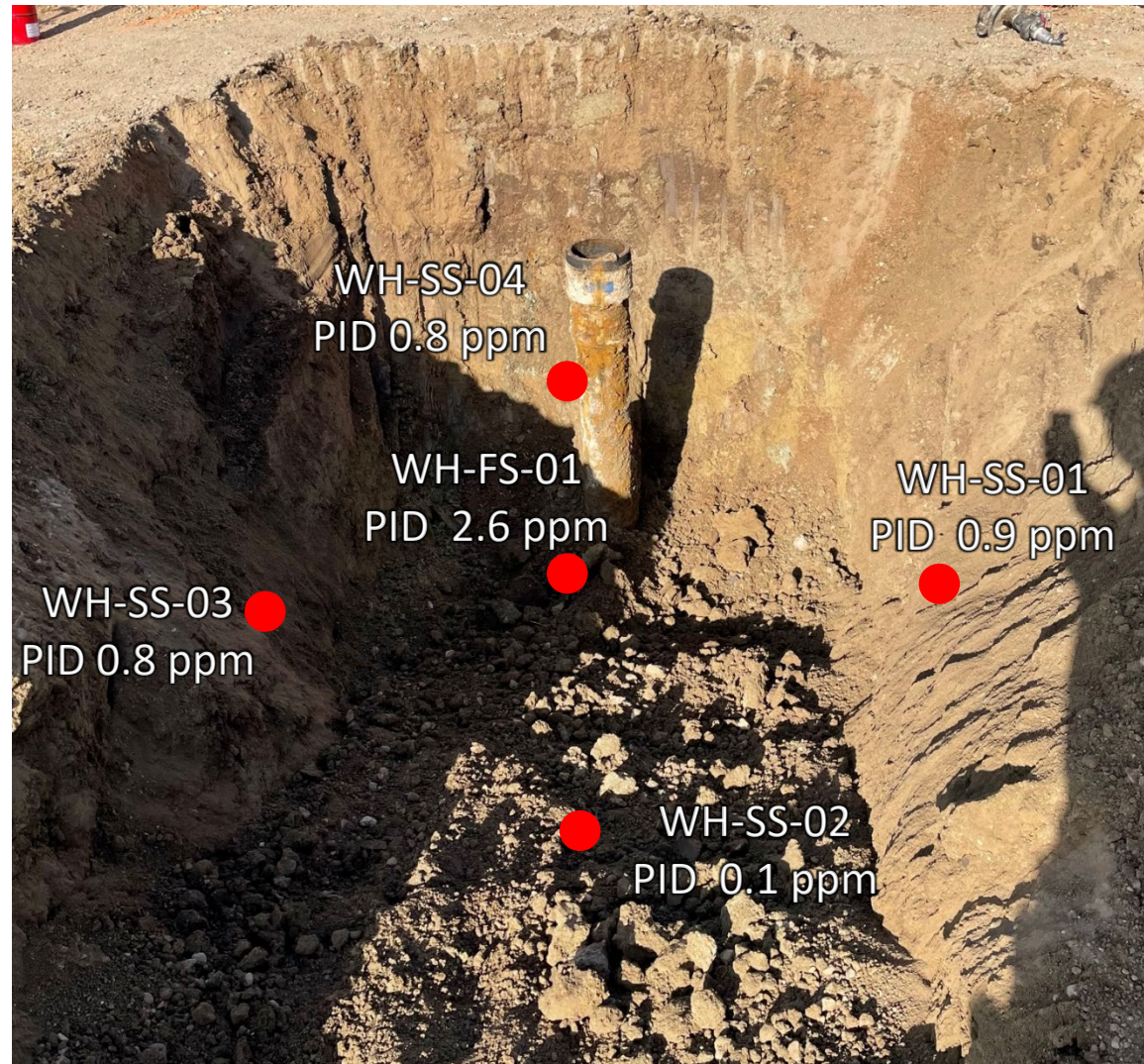
April 2022



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



## Well Head Excavation – 04/26/22



Looking west

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**



May 09, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Lilli Unit #8-7

Project Number - [none]

Attached are your analytical results for Noble - Lilli Unit #8-7 received by Origins Laboratory, Inc. April 26, 2022. This project is associated with Origins project number Y204613-01.

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 - Lilli Unit #8-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y204613-01	Soil	April 26, 2022 8:40	04/26/2022 13:00

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 #8-7

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 12041013

Client: Eagle

Client Project ID: LILLI UNIT 8-7

Checklist Completed by: KH

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

Date/time completed: 4/27/12

Airbill #: N/A

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

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

Thermometer ID: TC04

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

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

Reviewed by (Project Manager) JR

Date/Time Reviewed 4-27-12

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 #8-7

**WH-FS-01@7'**  
**4/26/2022 8:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204613-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.559		0.0999	mg/L	1	B2D2801	04/28/2022	04/29/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2708	04/27/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	109 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2737	04/27/2022	04/28/2022	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	95.9 %		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 #8-7

**WH-FS-01@7'**  
**4/26/2022 8:40:00AM**

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

**Origins Laboratory, Inc.**  
**Y204613-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	100 %		70-130			B2D27 37	04/27/2022	04/28/2022	
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	3.61		0.499	meq/L	10	[CALC]	04/28/2022	04/29/2022	
Magnesium	1.16		0.823	"	"	"	"	"	
Sodium	1.85		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00448	0.00364	0.0067	mg/Kg	10	L613698	05/02/2022	05/03/2022	J
2-Methylnaphthalene	ND	0.00645	0.0067	"	"	"	"	"	
Acenaphthene	ND	0.00304	0.0067	"	"	"	"	"	
Anthracene	ND	0.00334	0.0067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"	
Chrysene	ND	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #8-7

**WH-FS-01@7'**  
**4/26/2022 8:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y204613-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	0.00308	0.00286	0.0067	mg/Kg	10	L613698	05/02/2022	05/03/2022	J
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"	
Naphthalene	ND	0.00484	0.0067	"	"	"	"	"	
Pyrene	ND	0.00643	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	79.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	70.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.14			pH Units	1	B2D2808	04/28/2022	04/29/2022	
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**SAR by 20B Saturated Paste**

SAR	1.20			SAR	1	B2D2803	04/28/2022	04/29/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.738		0.00500	mmhos/cm	1	B2D2806	04/28/2022	04/29/2022	
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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 - Lilli Unit #8-7

**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 B2D2708 - EPA 3550B**

**Blank (B2D2708-BLK1)**

Prepared: 04/27/2022 Analyzed: 05/04/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		103	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #8-7

**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 B2D2708 - EPA 3550B**

**LCS (B2D2708-BS1)**

Prepared: 04/27/2022 Analyzed: 05/04/2022

Diesel (C10-C28)	1220	50.0	mg/kg	1000		122	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	55		"	49.8		112	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #8-7

**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 B2D2708 - EPA 3550B**

<b>Matrix Spike (B2D2708-MS1)</b>	<b>Source: Y204587-01</b>			<b>Prepared: 04/27/2022 Analyzed: 05/04/2022</b>						
Diesel (C10-C28)	995	50.0	mg/kg	1000	ND	99.5	70-130			
Residual Range Organics (C28-C40)	902	200	"	1000	ND	90.2	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.7	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #8-7

**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 B2D2708 - EPA 3550B</b>										
<b>Matrix Spike Dup (B2D2708-MSD1)</b>					<b>Source: Y204587-01</b>					Prepared: 04/27/2022 Analyzed: 05/04/2022
Diesel (C10-C28)	922	50.0	mg/kg	1000	ND	92.2	70-130	7.71	35	
Residual Range Organics (C28-C40)	851	200	"	1000	ND	85.1	70-130	5.78	35	
Surrogate: o-Terphenyl	40		"	49.8		81.0	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #8-7

**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 B2D2737 - EPA 5030 (soil)**

**Blank (B2D2737-BLK1)**

Prepared: 04/27/2022 Analyzed: 04/28/2022

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	0.12		"	0.125	92.3		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.0		70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #8-7

**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 B2D2737 - EPA 5030 (soil)

**LCS (B2D2737-BS1)**

Prepared: 04/27/2022 Analyzed: 04/28/2022

1,2,4-Trimethylbenzene	0.0917	0.00200	mg/kg	0.100		91.7	70-130			
1,3,5-Trimethylbenzene	0.0913	0.00200	"	0.100		91.3	70-130			
Benzene	0.0969	0.00200	"	0.100		96.9	70-130			
Ethylbenzene	0.0941	0.00200	"	0.100		94.1	70-130			
Naphthalene	0.0941	0.0100	"	0.100		94.1	70-130			
Toluene	0.0919	0.00200	"	0.100		91.9	70-130			
o-Xylene	0.0918	0.00200	"	0.100		91.8	70-130			
m,p-Xylene	0.187	0.00400	"	0.200		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #8-7

**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 B2D2737 - EPA 5030 (soil)

Matrix Spike (B2D2737-MS1)	Source: Y204606-01			Prepared: 04/27/2022 Analyzed: 04/28/2022						
1,2,4-Trimethylbenzene	0.0957	0.00200	mg/kg	0.100	ND	95.7	70-130			
1,3,5-Trimethylbenzene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
Benzene	0.0967	0.00200	"	0.100	ND	96.7	70-130			
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Naphthalene	0.0866	0.0100	"	0.100	ND	86.6	70-130			
Toluene	0.0938	0.00200	"	0.100	ND	93.8	70-130			
o-Xylene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
m,p-Xylene	0.200	0.00400	"	0.200	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #8-7

**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 B2D2737 - EPA 5030 (soil)

Matrix Spike Dup (B2D2737-MSD1)	Source: Y204606-01			Prepared: 04/27/2022 Analyzed: 04/28/2022						
1,2,4-Trimethylbenzene	0.0933	0.00200	mg/kg	0.100	ND	93.3	70-130	2.52	20	
1,3,5-Trimethylbenzene	0.0936	0.00200	"	0.100	ND	93.6	70-130	2.05	20	
Benzene	0.0969	0.00200	"	0.100	ND	96.9	70-130	0.207	20	
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	0.0200	20	
Naphthalene	0.0935	0.0100	"	0.100	ND	93.5	70-130	7.59	20	
Toluene	0.0938	0.00200	"	0.100	ND	93.8	70-130	0.0640	20	
o-Xylene	0.0966	0.00200	"	0.100	ND	96.6	70-130	0.706	20	
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.7	70-130	0.270	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	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 #8-7

**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 B2D2806 - NO PREP**

**Blank (B2D2806-BLK1)**

Prepared: 04/28/2022 Analyzed: 04/29/2022

Specific Conductance (EC) 0.00150 0.00500 mmhos/cm

**Duplicate (B2D2806-DUP1)**

**Source: Y204608-17**

Prepared: 04/28/2022 Analyzed: 04/29/2022

Specific Conductance (EC) 0.988 0.00500 mmhos/cm

0.965 2.35 25

**Batch B2D2808 - NO PREP**

**Duplicate (B2D2808-DUP1)**

**Source: Y204608-17**

Prepared: 04/28/2022 Analyzed: 04/29/2022

pH 7.96 pH Units

8.05 1.12 25

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #8-7

**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 L613698 - 3550B**

<b>MSD (L 92590-MSD-L613698)</b>		<b>Source: 92590</b>			Prepared: 05/02/2022 Analyzed: 05/03/2022					
1-Methylnaphthalene	0.0886	0.000364	mg/Kg dry	0.167	0.000381	52.8	30-130	8.5	30	
Benzo(a)anthracene	0.112	0.000493	"	0.167	<0.000493	67	30-130	9.3	30	
Anthracene	0.0985	0.000334	"	0.167	<0.000334	58.9	30-130	9.5	30	
Acenaphthene	0.0933	0.000304	"	0.167	<0.000304	55.8	30-130	12.2	30	
Chrysene	0.111	0.000624	"	0.167	<0.000624	66.4	30-130	7.4	30	
2-Methylnaphthalene	0.0875	0.000645	"	0.167	0.000661	51.9	30-130	10.7	30	
Pyrene	0.11	0.000643	"	0.167	<0.000643	65.8	30-130	10.7	30	
Benzo(b)fluoranthene	0.092	0.000585	"	0.167	<0.000585	55	30-130	4.7	30	
Naphthalene	0.0846	0.000484	"	0.167	<0.000484	50.6	30-130	11.5	30	
Indeno(1,2,3-cd)pyrene	0.0824	0.000627	"	0.167	<0.000627	49.3	30-130	5.2	30	
Fluorene	0.0974	0.000286	"	0.167	<0.000286	58.3	30-130	10.1	30	
Fluoranthene	0.109	0.000394	"	0.167	<0.000394	65.2	30-130	10.8	30	
Dibenz(a,h)anthracene	0.105	0.000614	"	0.167	<0.000614	62.8	30-130	8.2	30	
Benzo(k)fluoranthene	0.115	0.000437	"	0.167	<0.000437	68.8	30-130	11	30	
Benzo(a)pyrene	0.113	0.000468	"	0.167	<0.000468	67.6	30-130	12.7	30	
Surrogate: 4-Terphenyl-d14	74.7		"	0.333	249	74.7	33-122			
Surrogate: 2-Fluorobiphenyl	52.2		"	0.333	170	52.2	33-115			
Surrogate: Nitrobenzene-d5	60.3		"	0.333	198	60.3	29-110			

<b>MS (L 92590-MS-L613698)</b>		<b>Source: 92590</b>			Prepared: 05/02/2022 Analyzed: 05/03/2022					
Benzo(b)fluoranthene	0.0877	0.000585	mg/Kg dry	0.164	<0.000585	53.4	30-130			
Dibenz(a,h)anthracene	0.0967	0.000614	"	0.164	<0.000614	58.9	30-130			
Pyrene	0.0988	0.000643	"	0.164	<0.000643	60.2	30-130			
Naphthalene	0.0754	0.000484	"	0.164	<0.000484	45.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0782	0.000627	"	0.164	<0.000627	47.6	30-130			
Fluorene	0.088	0.000286	"	0.164	<0.000286	53.6	30-130			
Fluoranthene	0.0978	0.000394	"	0.164	<0.000394	59.6	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 #8-7

**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 L613698 - 3550B**

MS (L 92590-MS-L613698)	Source: 92590			Prepared: 05/02/2022 Analyzed: 05/03/2022						
2-Methylnaphthalene	0.0786	0.000645	mg/Kg dry	0.164	0.000661	47.5	30-130			
Benzo(a)pyrene	0.0995	0.000468	"	0.164	<0.000468	60.6	30-130			
Benzo(a)anthracene	0.102	0.000493	"	0.164	<0.000493	62.1	30-130			
Anthracene	0.0895	0.000334	"	0.164	<0.000334	54.5	30-130			
Acenaphthene	0.0825	0.000304	"	0.164	<0.000304	50.3	30-130			
Benzo(k)fluoranthene	0.103	0.000437	"	0.164	<0.000437	62.8	30-130			
1-Methylnaphthalene	0.0813	0.000364	"	0.164	0.000381	49.3	30-130			
Chrysene	0.103	0.000624	"	0.164	<0.000624	62.8	30-130			
Surrogate: Nitrobenzene-d5	58.8		"	0.328	198	58.8	29-110			
Surrogate: 4-Terphenyl-d14	72.5		"	0.328	249	72.5	33-122			
Surrogate: 2-Fluorobiphenyl	52.4		"	0.328	170	52.4	33-115			

LCS (LCS-L613698)	Prepared: 05/02/2022 Analyzed: 05/03/2022									
Dibenz(a,h)anthracene	0.098	0.000614	mg/Kg	0.167		58.6	30-130			
Fluoranthene	0.0979	0.000394	"	0.167		58.6	30-130			
Fluorene	0.0917	0.000286	"	0.167		54.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0834	0.000627	"	0.167		49.9	30-130			
Naphthalene	0.0813	0.000484	"	0.167		48.6	30-130			
Pyrene	0.0974	0.000643	"	0.167		58.3	30-130			
Acenaphthene	0.089	0.000304	"	0.167		53.2	30-130			
Chrysene	0.0993	0.000624	"	0.167		59.4	30-130			
Benzo(b)fluoranthene	0.0843	0.000585	"	0.167		50.4	30-130			
Benzo(a)pyrene	0.102	0.000468	"	0.167		61	30-130			
Anthracene	0.0888	0.000334	"	0.167		53.1	30-130			
2-Methylnaphthalene	0.0843	0.000645	"	0.167		50.4	30-130			
1-Methylnaphthalene	0.0873	0.000364	"	0.167		52.2	30-130			
Benzo(a)anthracene	0.0988	0.000493	"	0.167		59.1	30-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #8-7

**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 L613698 - 3550B**

**LCS (LCS-L613698)**

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

Benzo(k)fluoranthene	0.102	0.000437	mg/Kg	0.167		61	30-130			
Surrogate: Nitrobenzene-d5	67.5		"	0.333		67.5	29-110			
Surrogate: 4-Terphenyl-d14	78.9		"	0.333		78.9	33-122			
Surrogate: 2-Fluorobiphenyl	60.9		"	0.333		60.9	33-115			

**LRB (LRB-L613698)**

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

Pyrene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	64.8		"	0.333		64.8	29-110			
Surrogate: 4-Terphenyl-d14	76.5		"	0.333		76.5	33-122			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.333		57.3	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.  
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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #8-7

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**Notes and Definitions**

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

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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