

## 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
Site Name & COGCC Facility Number: Lilli Unit #16-7		Date: 3-2-22			Remediation Project #: 21705			
Associated Wells: 05-123-13914		Age of Site: years			Number of Photos Attached: 1			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)					40.670890		-103.899150	
Estimated Facility Size (acres):								

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

USCS Soil Type: CL Estimated Depth to Groundwater: ~60-100'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
Petroleum hydrocarbon staining/odor in excavation ~11' x ~11' x ~6'

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

#### Wellhead(s)

Well API	Age	Condition of surface around wellhead	PID Readings	Condition of subsurface (at least one)	PID Readings	Sample taken? Location/Sample ID#	Photo Number(s)
05-123-13914	years	Petroleum hydrocarbon staining adjacent to wellhead	0.6	Petroleum hydrocarbon staining and odor on west side wall and floor	8.4	WH-SS-01@5'	See photolog
					1.5	WH-SS-02@5'	
					13.3	WH-SS-03@5'	
					244.6	WH-SS-04@5'	
					28.5	WH-FS-01@6'	

Other observations regarding wellheads:  
Riser cut/capped following assessment

#### Summary

Was impacted soil identified?		No	<input checked="" type="radio"/> Yes - less than 10 cubic yards	Yes - more than 10 cubic yards
Total number of samples field screened:		6		Total number of samples collected: 6
Highest PID Reading:		244.6		Total number of samples submitted to lab for analysis: 5
If more than 10 cubic yards of impacted soil were observed:				
Vertical extent:		<u>N/A</u>		Estimated spill volume:
Lateral extent:				Volume of soil removed:
Is additional investigation required?				
Was groundwater encountered during the investigation?				
<input checked="" type="radio"/> 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:		
Seen on groundwater? Yes No		Volume of groundwater removed prior to sampling:		
Free product observed? Yes No		Volume of groundwater removed post sampling:		
Total number of samples collected:		Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:				



## **FIGURES**

**Figure 1: Topographic Site Location Map**

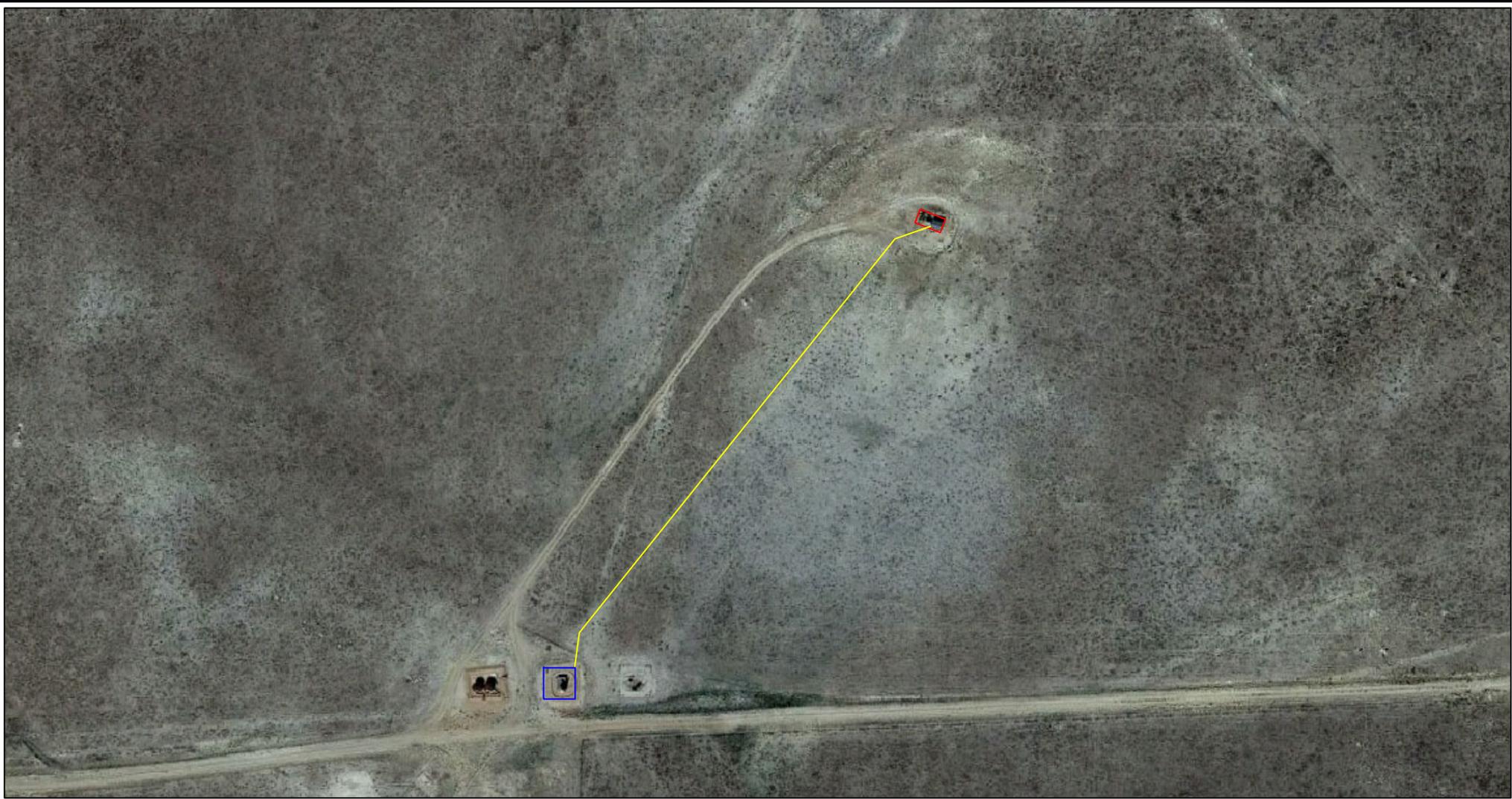
**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**

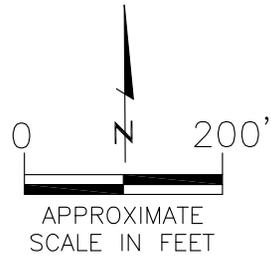
**Figure 5: Metals in Soil Map**





**LEGEND**

- FORMER LILLI UNIT #16-7 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP  
 LILLI UNIT #16-7  
 CLOSURE ASSESSMENT  
 40.670890 / -103.899150  
 SE¼ SE¼ SEC.7 T8N R58W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13914  
 REMEDIATION # 21705

DATE: 05/02/22

FIG. NO. 2  
DRAWN BY: AMN



EAGLE

ENVIRONMENTAL  
CONSULTING, INC.

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



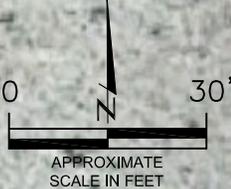
WH-SS-01@5'  
03/02/22  
5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.218  
EC = 0.556  
SAR= 5.08  
pH = 8.26

WH-SS-04@5'  
03/02/22  
5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = 0.206  
G = 2.28  
D = <25.0  
R = <100  
1,2,4-TMB = **0.0979\***  
1,3,5-TMB = **0.0895\***  
Brn= 0.317  
EC = 0.672  
SAR= 2.26  
pH = 7.98

WH-SS-02@5'  
03/02/22  
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= 0.178  
EC = 0.638  
SAR= 5.57  
pH = 8.19

WH-SS-03@5'  
03/02/22  
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 = 0.00258  
Brn= 0.160  
EC = 1.37  
SAR= 5.17  
pH = 8.02

WH-FS-01@6'  
03/02/22  
6'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = 0.0118  
G = 0.294  
D = <25.0  
R = <100  
1,2,4-TMB = **0.0111\***  
1,3,5-TMB = 0.00690  
Brn= 0.237  
EC = 0.614  
SAR= 2.91  
pH = 8.03



**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- 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 THAT EXCEED COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**SOIL ANALYTICAL MAP**  
LILLI UNIT #16-7  
CLOSURE ASSESSMENT  
40.670890 / -103.899150  
SE¼ SE¼ SEC.7 T8N R58W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13914  
REMIEDIATION # 21705

DATE:  
05/02/22  
DRAWN BY:  
AMN  
FIG.  
NO. 3

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



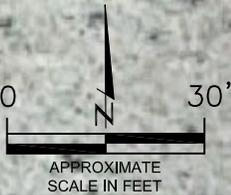
WH-SS-04@5'  
03/02/22  
5'  
ND = <0.0067  
1-Methylnaphthalene = **0.0738\***  
2-Methylnaphthalene = **0.039\***  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = 0.0105  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = 0.0139  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = **0.0133\***  
Pyrene = ND

WH-SS-01@5'  
03/02/22  
5'  
ND = <0.00067  
1-Methylnaphthalene = 0.00305  
2-Methylnaphthalene = 0.00287  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = 0.00114  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = 0.00076  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = 0.00138  
Pyrene = ND

WH-SS-02@5'  
03/02/22  
5'  
ND = <0.00067  
1-Methylnaphthalene = ND  
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 = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

WH-SS-03@5'  
03/02/22  
5'  
ND = <0.00067  
1-Methylnaphthalene = 0.00361  
2-Methylnaphthalene = 0.00217  
Acenaphthene = 0.000361  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = 0.00121  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = 0.000601  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = 0.000808  
Pyrene = 0.00125

WH-FS-01@6'  
03/02/22  
6'  
ND = <0.00067  
1-Methylnaphthalene = **0.00896\***  
2-Methylnaphthalene = 0.00541  
Acenaphthene = 0.000702  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = 0.00367  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = 0.00172  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = 0.00308  
Pyrene = 0.00152



**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- SS-02 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** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

LILLI UNIT #16-7  
CLOSURE ASSESSMENT  
40.670890 / -103.899150  
SE¼ SE¼ SEC.7 T8N R58W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13914  
REMEDATION # 21705

DATE:  
05/02/22  
DRAWN BY:  
AMN  
FIG.  
NO. 4

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



BACKGROUND-01@3'  
03/02/22  
3'

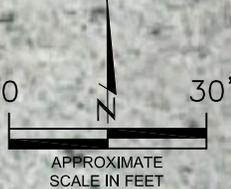
Arsenic = 1.05\*\*\*  
Barium = NA  
Cadmium = NA  
Chromium (VI) = NA  
Copper = NA  
Lead = 0.298  
Nickel = NA  
Selenium = <0.25  
Silver = NA  
Zinc = NA

WH-SS-04@5'  
03/02/22  
5'

Arsenic = **8.41\*\*\***  
Barium = 54  
Cadmium = 0.182  
Chromium (VI) = <0.244\*\*  
Copper = 7.53  
Lead = **28\***  
Nickel = 5.85  
Selenium = **0.359\***  
Silver = 0.0152  
Zinc = 26.9

● BACKGROUND-01

(NS) WH-SS-01  
WH-SS-04 ● WH-FS-01 ●  
(NS) ●  
WH-SS-03 (NS) ● WH-SS-02 (NS)



**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- SS-02

**PARAMETERS**

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH  
Arsenic = (mg/kg)  
Barium = (mg/kg)  
Cadmium = (mg/kg)  
Chromium (VI) = (mg/kg)  
Copper = (mg/kg)  
Lead = (mg/kg)  
Nickel = (mg/kg)  
Selenium = (mg/kg)  
Silver = (mg/kg)  
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

(NS) – NOT SAMPLED

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

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

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

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

\*\*\*ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL "CLEAN-UP LEVEL" (1.31 mg/kg) is 1.25\*BACKGROUND (1.05 mg/kg).

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

METALS IN SOIL MAP  
LILLI UNIT #16-7  
CLOSURE ASSESSMENT  
40.670890 / -103.899150  
SE¼ SE¼ SEC.7 T8N R58W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13914  
REMIADIATION # 21705

DATE:  
05/02/22  
DRAWN BY:  
AMN  
FIG.  
NO. 5

**EAGLE**  
ENVIRONMENTAL  
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 4: Metals Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**LILLI UNIT #16-7**  
**CLOSURE ASSESSMENT**  
**40.670890 / -103.899150**  
**SE1/4 SE1/4 SEC.7 T8N R58W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13914**  
**REMEDIATION # 21705**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SF-01 @ 0.5' (40.670855 / -103.899146)	03/02/22	0.5	0.6	N
WH-SS-01 @ 5' (40.670890 / -103.899125)	03/02/22	5	8.4	Y
WH-SS-02 @ 5' (40.670871 / -103.899109)	03/02/22	5	1.5	Y
WH-SS-03 @ 5' (40.670862 / -103.899135)	03/02/22	5	13.3	Y
WH-SS-04 @ 5' (40.670880 / -103.899148)	03/02/22	5	244.6	Y
WH-FS-01 @ 6' (40.670877 / -103.899131)	03/02/22	6	28.5	Y
Background-01 @ 3' (40.670946 / -103.899198)	03/02/22	3	2.1	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector				

**TABLE 2**  
**SOIL ANALYTICAL RESULTS SUMMARY**  
**LILLI UNIT #16-7**  
**CLOSURE ASSESSMENT**  
**40.670890 / -103.899150**  
**SE1/4 SE1/4 SEC.7 T8N R58W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13914**  
**REMEDIAION # 21705**

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-SS-01 @ 5' (40.670890 / -103.899125)	03/02/22	5	8.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.218	0.556	8.26	5.08
WH-SS-02 @ 5' (40.670871 / -103.899109)	03/02/22	5	1.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.178	0.638	8.19	5.57
WH-SS-03 @ 5' (40.670862 / -103.899135)	03/02/22	5	13.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	0.00258	0.160	1.37	8.02	5.17
WH-SS-04 @ 5' (40.670880 / -103.899148)	03/02/22	5	244.6	<0.00200	<0.00200	<0.00200	0.206	2.28	<25.0	<100	<b>0.0979*</b>	<b>0.0895*</b>	0.317	0.672	7.98	2.26
WH-FS-01 @ 6' (40.670877 / -103.899131)	03/02/22	6	28.5	<0.00200	<0.00200	<0.00200	0.0118	0.294	<25.0	<100	<b>0.0111*</b>	0.00690	0.237	0.614	8.03	2.91

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. Values with asterisk (\*) exceed COGCC Table 915-1 protection of groundwater soil screening levels for that compound

**TABLE 3**  
**POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY**  
 LILLI UNIT #16-7  
 CLOSURE ASSESSMENT  
 40.670890 / -103.899150  
 SE1/4 SE1/4 SEC.7 T8N R58W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13914  
 REMEDIATION # 21705

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-SS-01 @ 5' (40.670890 / -103.899125)	03/02/22	5	8.4	0.00305	0.00287	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00114	<0.00067	<0.00067	0.00076	<0.00067	0.00138	<0.00067	
WH-SS-02 @ 5' (40.670871 / -103.899109)	03/02/22	5	1.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	
WH-SS-03 @ 5' (40.670862 / -103.899135)	03/02/22	5	13.3	0.00361	0.00217	0.000361	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00121	<0.00067	<0.00067	0.000601	<0.00067	0.000808	0.00125	
WH-SS-04 @ 5' (40.670880 / -103.899148)	03/02/22	5	244.6	<b>0.0738*</b>	<b>0.039*</b>	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	0.0105	<0.0067	<0.0067	0.0139	<0.0067	<b>0.0133*</b>	<0.0067	
WH-FS-01 @ 6' (40.670877 / -103.899131)	03/02/22	6	28.5	<b>0.00896*</b>	0.00541	0.000702	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00367	<0.00067	<0.00067	0.00172	<0.00067	0.00308	0.00152	
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 <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed COGCC Table 915-1 protection of groundwater soil screening levels for that compound																			

**TABLE 4**  
**METALS ANALYTICAL RESULTS SUMMARY**  
**LILLI UNIT #16-7**  
**CLOSURE ASSESSMENT**  
**40.670890 / -103.899150**  
**SE1/4 SE1/4 SEC.7 T8N R58W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13914**  
**REMEDIATION # 21705**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>			<b>0.68***</b>	<b>15,000</b>	<b>71</b>	<b>0.3</b>	<b>3,100</b>	<b>400</b>	<b>1,500</b>	<b>390</b>	<b>390</b>	<b>23,000</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>			<b>0.29***</b>	<b>82</b>	<b>0.38</b>	<b>0.00067</b>	<b>46</b>	<b>14</b>	<b>26</b>	<b>0.26</b>	<b>0.8</b>	<b>370</b>
<b>Local Cleanup Levels</b>			<b>1.31***</b>	--	--	<b>0.1 to 1**</b>	--	--	--	--	--	--
WH-SS-04 @ 5' (40.670880 / -103.899148)	03/02/22	5	<b>8.41***</b>	54	0.182	<0.244**	7.53	<b>28*</b>	5.85	<b>0.359*</b>	0.0152	26.9
Background-01 @ 3' (40.670946 / -103.899198)	03/02/22	3	1.05***	NA	NA	NA	NA	0.298	NA	<0.25	NA	NA

COGCC = Colorado Oil and Gas Conservation Commission

NA - Not Analyzed

mg/kg = milligrams per kilogram

Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels.

Values presented in **BOLD** contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits

Values presented with asterisk (\*) contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels

\*\*Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.

\*\*\*Arsenic is naturally occurring in Colorado. Local "clean-up level" (1.31 mg/kg) is 1.25\*Background (1.05 mg/kg)



## **ATTACHMENT A**

### **Photo Log**

Lilli Unit #16-7  
API # 05-123-13914  
Remediation # 21705

Closure Assessment

March 2022

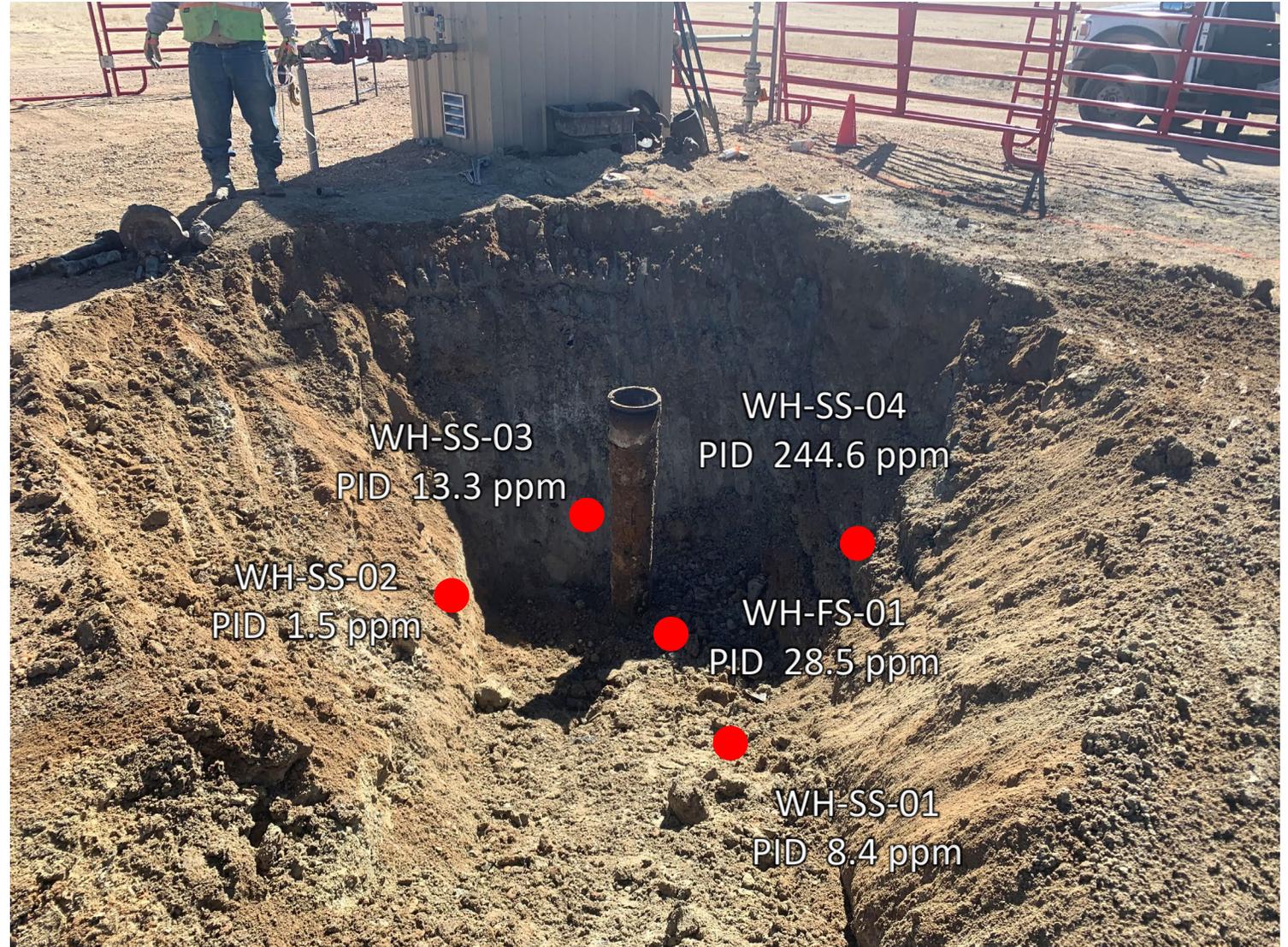


**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



# Wellhead Excavation – 03/02/22

Looking southwest  
Petroleum hydrocarbon and odor observed on floor and west sidewall





## **ATTACHMENT B**

### **Laboratory Analytical Reports**



March 14, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Lilli Unit #16-7

Project Number - [none]

Attached are your analytical results for Noble - Lilli Unit #16-7 received by Origins Laboratory, Inc. March 03, 2022. This project is associated with Origins project number Y203114-01.

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 #16-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y203114-01	Soil	March 2, 2022 11:20	03/03/2022 15:25
WH-SS-02@5'	Y203114-02	Soil	March 2, 2022 11:21	03/03/2022 15:25
WH-SS-03@5'	Y203114-03	Soil	March 2, 2022 11:22	03/03/2022 15:25
WH-SS-04@5'	Y203114-04	Soil	March 2, 2022 11:23	03/03/2022 15:25
WH-FS-01@6'	Y203114-05	Soil	March 2, 2022 11:24	03/03/2022 15:25

Origins Laboratory, Inc.



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



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y203114 Client: Eagle  
 Client Project ID: Lilli Unit 16-7

Checklist Completed by: JG Shipped Via: AD  
 Date/time completed: 3/4/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 2.2 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 analysis 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) JM

3-7-22  
Date/Time Reviewed

Origins Laboratory, Inc.

*J Byron*

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 #16-7

**WH-SS-01@5'**  
**3/2/2022 11:20:00AM**

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

**Origins Laboratory, Inc.**  
**Y203114-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.218		0.0992	mg/L	1	B2C0702	03/07/2022	03/08/2022	
-------	-------	--	--------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C0714	03/07/2022	03/10/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.4 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C0418	03/04/2022	03/05/2022	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	92.1 %		70-130			"	"	"	
----------------------------------	--------	--	--------	--	--	---	---	---	--

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**WH-SS-01@5'**  
**3/2/2022 11:20:00AM**

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

**Origins Laboratory, Inc.**  
**Y203114-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	105 %		70-130			B2C04 18	03/04/2022	03/05/2022	
Surrogate: 4-Bromofluorobenzene	95.5 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.853</b>		0.499	meq/L	10	[CALC]	03/04/2022	03/07/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>4.07</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	<b>0.00305</b>	<b>0.000364</b>	0.00067	mg/Kg	1	L603858	03/09/2022	03/09/2022	
2-Methylnaphthalene	<b>0.00287</b>	<b>0.000645</b>	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	<b>0.00114</b>	<b>0.000624</b>	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	<b>0.00076</b>	<b>0.000286</b>	0.00067	"	"	"	"	"	

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 #16-7

**WH-SS-01@5'**  
**3/2/2022 11:20:00AM**

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

**Waypoint Analytical, Inc.**  
**Y203114-01 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L603858	03/09/2022	03/09/2022	
Naphthalene	<b>0.00138</b>	<b>0.000484</b>	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	77 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.3 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.26</b>			pH Units	1	B2C0416	03/04/2022	03/05/2022	
----	-------------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	<b>5.08</b>			SAR	1	B2C0411	03/04/2022	03/07/2022	
-----	-------------	--	--	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.566</b>		0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022	
---------------------------	--------------	--	---------	----------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**WH-SS-02@5'**  
**3/2/2022 11:21:00AM**

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

**Origins Laboratory, Inc.**  
**Y203114-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.178		0.0991	mg/L	1	B2C0702	03/07/2022	03/08/2022	
-------	-------	--	--------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C0714	03/07/2022	03/09/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	105 %		50-150			"	"	"	
------------------------	-------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C0418	03/04/2022	03/05/2022	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	88.8 %		70-130			"	"	"	
----------------------------------	--------	--	--------	--	--	---	---	---	--

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**WH-SS-02@5'**  
**3/2/2022 11:21:00AM**

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

**Origins Laboratory, Inc.**  
**Y203114-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	108 %		70-130			B2C04 18	03/04/2022	03/05/2022	
Surrogate: 4-Bromofluorobenzene	95.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.933</b>		0.499	meq/L	10	[CALC]	03/04/2022	03/07/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>4.67</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L603858	03/09/2022	03/09/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 #16-7

**WH-SS-02@5'**  
**3/2/2022 11:21:00AM**

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

**Waypoint Analytical, Inc.**  
**Y203114-02 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L603858	03/09/2022	03/09/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	80.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.7 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.19			pH Units	1	B2C0416	03/04/2022	03/05/2022	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	5.57			SAR	1	B2C0411	03/04/2022	03/07/2022	
-----	------	--	--	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.638		0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**WH-SS-03@5'**  
**3/2/2022 11:22:00AM**

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

**Origins Laboratory, Inc.**  
**Y203114-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.160		0.0999	mg/L	1	B2C0702	03/07/2022	03/08/2022	
-------	-------	--	--------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C0714	03/07/2022	03/09/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	106 %		50-150			"	"	"	
------------------------	-------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C0418	03/04/2022	03/05/2022	U
1,3,5-Trimethylbenzene	0.00258		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.9 %		70-130			"	"	"	
Surrogate: Toluene-d8	108 %		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 #16-7

**WH-SS-03@5'**  
**3/2/2022 11:22:00AM**

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

**Origins Laboratory, Inc.**  
**Y203114-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			B2C04 18	03/04/2022	03/05/2022	
---------------------------------	--------	--	--------	--	--	-------------	------------	------------	--

**Metals by Saturated Paste by EPA 6010**

Calcium	3.98		0.499	meq/L	10	[CALC]	03/04/2022	03/07/2022	
Magnesium	1.74		0.823	"	"	"	"	"	
Sodium	8.74		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00361	0.000364	0.00067	mg/Kg	1	L603858	03/09/2022	03/09/2022	
2-Methylnaphthalene	0.00217	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.000361	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00121	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000601	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

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 #16-7

**WH-SS-03@5'**  
**3/2/2022 11:22:00AM**

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

**Waypoint Analytical, Inc.**  
**Y203114-03 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.000808	0.000484	0.00067	mg/Kg	1	L603858	03/09/2022	03/09/2022	
Pyrene	0.00125	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	84.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.02			pH Units	1	B2C0416	03/04/2022	03/05/2022	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	5.17			SAR	1	B2C0411	03/04/2022	03/07/2022	
-----	------	--	--	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.37		0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022	
---------------------------	------	--	---------	----------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**WH-SS-04@5'**  
**3/2/2022 11:23:00AM**

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

**Origins Laboratory, Inc.**  
**Y203114-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.317		0.0990	mg/L	1	B2C0702	03/07/2022	03/08/2022	
-------	-------	--	--------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C0714	03/07/2022	03/09/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.8 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0979		0.00200	mg/kg	1	B2C0418	03/04/2022	03/05/2022	
1,3,5-Trimethylbenzene	0.0895		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.206		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.28		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.9 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.1 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**WH-SS-04@5'**  
**3/2/2022 11:23:00AM**

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

**Origins Laboratory, Inc.**  
**Y203114-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	108 %		70-130			B2C04 18	03/04/2022	03/05/2022	
---------------------------------	-------	--	--------	--	--	-------------	------------	------------	--

**Metals by Saturated Paste by EPA 6010**

Calcium	2.67		0.499	meq/L	10	[CALC]	03/04/2022	03/07/2022	
Magnesium	0.996		0.823	"	"	"	"	"	
Sodium	3.06		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0738	0.00364	0.0067	mg/Kg	10	L603858	03/09/2022	03/09/2022	
2-Methylnaphthalene	0.039	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	0.0105	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"	
Fluorene	0.0139	0.00286	0.0067	"	"	"	"	"	

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 #16-7

**WH-SS-04@5'**  
**3/2/2022 11:23:00AM**

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

**Waypoint Analytical, Inc.**  
**Y203114-04 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	mg/Kg	10	L603858	03/09/2022	03/09/2022	
Naphthalene	<b>0.0133</b>	<b>0.00484</b>	0.0067	"	"	"	"	"	
Pyrene	ND	0.00643	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	77.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	56.3 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>7.98</b>			pH Units	1	B2C0416	03/04/2022	03/05/2022	
----	-------------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	<b>2.26</b>			SAR	1	B2C0411	03/04/2022	03/07/2022	
-----	-------------	--	--	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.672</b>		0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022	
---------------------------	--------------	--	---------	----------	---	---------	------------	------------	--

**Total Metals by 6020B**

Arsenic	<b>8.41</b>	<b>0.0855</b>	0.25	mg/Kg	5	L603315	03/07/2022	03/10/2022	
Barium	<b>54</b>	<b>0.042</b>	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**WH-SS-04@5'**  
**3/2/2022 11:23:00AM**

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

**Waypoint Analytical, Inc.**  
**Y203114-04 (Soil)**

**Total Metals by 6020B**

Cadmium	0.182	0.0259	0.25	mg/Kg	5	L603315	03/07/2022	03/10/2022	J
Copper	7.53	0.0806	0.25	"	"	"	"	"	
Lead	28	0.031	0.25	"	"	"	"	"	
Nickel	5.85	0.0633	0.25	"	"	"	"	"	
Selenium	0.359	0.103	0.25	"	"	"	"	"	
Silver	0.0152	0.0067	0.25	"	"	"	"	"	J
Zinc	26.9	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L604118	03/03/2022	03/10/2022	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**WH-FS-01@6'**  
**3/2/2022 11:24:00AM**

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

**Origins Laboratory, Inc.**  
**Y203114-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.237		0.0988	mg/L	1	B2C0702	03/07/2022	03/08/2022	
-------	-------	--	--------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C0714	03/07/2022	03/09/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.8 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0111		0.00200	mg/kg	1	B2C0418	03/04/2022	03/05/2022	
1,3,5-Trimethylbenzene	0.00690		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0118		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.294		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	90.5 %		70-130			"	"	"	
Surrogate: Toluene-d8	105 %		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 #16-7

**WH-FS-01@6'**  
**3/2/2022 11:24:00AM**

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

**Origins Laboratory, Inc.**  
**Y203114-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			B2C04 18	03/04/2022	03/05/2022	
---------------------------------	--------	--	--------	--	--	-------------	------------	------------	--

**Metals by Saturated Paste by EPA 6010**

Calcium	1.86		0.499	meq/L	10	[CALC]	03/04/2022	03/07/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.32		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00896	0.000364	0.00067	mg/Kg	1	L603858	03/09/2022	03/09/2022	
2-Methylnaphthalene	0.00541	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.000702	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00367	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00172	0.000286	0.00067	"	"	"	"	"	

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 #16-7

**WH-FS-01@6'**  
**3/2/2022 11:24:00AM**

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

**Waypoint Analytical, Inc.**  
**Y203114-05 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L603858	03/09/2022	03/09/2022	
Naphthalene	<b>0.00308</b>	<b>0.000484</b>	0.00067	"	"	"	"	"	
Pyrene	<b>0.00152</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	65.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.1 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.03</b>			pH Units	1	B2C0416	03/04/2022	03/05/2022	
----	-------------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	<b>2.91</b>			SAR	1	B2C0411	03/04/2022	03/07/2022	
-----	-------------	--	--	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.614</b>		0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022	
---------------------------	--------------	--	---------	----------	---	---------	------------	------------	--

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B2C0418 - EPA 5030 (soil)**

**Blank (B2C0418-BLK1)**

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

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	0.11		"	0.125	89.6		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	108		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.2		70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B2C0418 - EPA 5030 (soil)

**LCS (B2C0418-BS1)**

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

1,2,4-Trimethylbenzene	0.0971	0.00200	mg/kg	0.100		97.1	70-130			
1,3,5-Trimethylbenzene	0.0963	0.00200	"	0.100		96.3	70-130			
Benzene	0.0812	0.00200	"	0.100		81.2	70-130			
Ethylbenzene	0.0959	0.00200	"	0.100		95.9	70-130			
Naphthalene	0.0907	0.0100	"	0.100		90.7	70-130			
Toluene	0.0831	0.00200	"	0.100		83.1	70-130			
o-Xylene	0.0946	0.00200	"	0.100		94.6	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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 #16-7

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B2C0418 - EPA 5030 (soil)

Matrix Spike (B2C0418-MS1)	Source: Y203100-01			Prepared: 03/04/2022 Analyzed: 03/05/2022						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.0872	0.00200	"	0.100	ND	87.2	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.101	0.0100	"	0.100	ND	101	70-130			
Toluene	0.0895	0.00200	"	0.100	ND	89.5	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.201	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 #16-7

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B2C0418 - EPA 5030 (soil)

Matrix Spike Dup (B2C0418-MSD1)	Source: Y203100-01			Prepared: 03/04/2022 Analyzed: 03/05/2022						
1,2,4-Trimethylbenzene	0.0990	0.00200	mg/kg	0.100	ND	99.0	70-130	2.24	20	
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130	4.85	20	
Benzene	0.0913	0.00200	"	0.100	ND	91.3	70-130	4.64	20	
Ethylbenzene	0.0966	0.00200	"	0.100	ND	96.6	70-130	4.63	20	
Naphthalene	0.102	0.0100	"	0.100	ND	102	70-130	0.732	20	
Toluene	0.0878	0.00200	"	0.100	ND	87.8	70-130	1.92	20	
o-Xylene	0.0962	0.00200	"	0.100	ND	96.2	70-130	4.79	20	
m,p-Xylene	0.192	0.00400	"	0.200	ND	96.1	70-130	4.73	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**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
<b>Batch B2C0714 - EPA 3550B</b>										
<b>Blank (B2C0714-BLK1)</b>										
					Prepared: 03/07/2022 Analyzed: 03/09/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		116	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 - Lilli Unit #16-7

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B2C0714 - EPA 3550B**

**LCS (B2C0714-BS1)**

Prepared: 03/07/2022 Analyzed: 03/09/2022

Diesel (C10-C28)	1160	50.0	mg/kg	1000		116	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	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 - Lilli Unit #16-7

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B2C0714 - EPA 3550B**

<b>Matrix Spike (B2C0714-MS1)</b>	<b>Source: Y203113-02</b>			Prepared: 03/07/2022 Analyzed: 03/09/2022						
Diesel (C10-C28)	1200	50.0	mg/kg	1000	ND	120	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	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 - Lilli Unit #16-7

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B2C0714 - EPA 3550B**

<b>Matrix Spike Dup (B2C0714-MSD1)</b>	<b>Source: Y203113-02</b>		<b>Prepared: 03/07/2022 Analyzed: 03/09/2022</b>							
Diesel (C10-C28)	1230	50.0	mg/kg	1000	ND	123	70-130	2.64	35	
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130	6.35	35	
<i>Surrogate: o-Terphenyl</i>	56		"	49.8		112	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 - Lilli Unit #16-7

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch L603858 - 3550B**

<b>MSD (L 86059-MSD-L603858)</b>		<b>Source: 86059</b>			Prepared: 03/09/2022 Analyzed: 03/09/2022					
Chrysene	0.111	0.000624	mg/Kg	0.163	86059	68	30-130	6.1	30	
Pyrene	0.104	0.000643	"	0.163	86059	63.8	30-130	8.2	30	
Naphthalene	0.0979	0.000484	"	0.163	86059	60	30-130	1.5	30	
Indeno(1,2,3-cd)pyrene	0.0788	0.000627	"	0.163	86059	48.3	30-130	9	30	
Fluorene	0.0958	0.000286	"	0.163	86059	58.7	30-130	5.2	30	
Acenaphthene	0.0861	0.000304	"	0.163	86059	52.8	30-130	5.4	30	
1-Methylnaphthalene	0.0996	0.000364	"	0.163	86059	61.1	30-130	3.3	30	
Fluoranthene	0.107	0.000394	"	0.163	86059	65.6	30-130	5.4	30	
Dibenz(a,h)anthracene	0.1	0.000614	"	0.163	86059	61.3	30-130	9.5	30	
Benzo(b)fluoranthene	0.073	0.000585	"	0.163	86059	44.7	30-130	1.2	30	
2-Methylnaphthalene	0.0902	0.000645	"	0.163	86059	55.3	30-130	4.5	30	
Benzo(k)fluoranthene	0.0828	0.000437	"	0.163	86059	50.7	30-130	6.7	30	
Benzo(a)pyrene	0.116	0.000468	"	0.163	86059	71.1	30-130	5.8	30	
Benzo(a)anthracene	0.108	0.000493	"	0.163	86059	66.2	30-130	3.6	30	
Anthracene	0.0999	0.000334	"	0.163	86059	61.2	30-130	5.9	30	
Surrogate: Nitrobenzene-d5	58.8		"	0.326	187	58.8	29-110			
Surrogate: 2-Fluorobiphenyl	67.4		"	0.326	214	67.4	33-115			
Surrogate: 4-Terphenyl-d14	83.4		"	0.326	318	83.4	33-122			

<b>MS (L 86059-MS-L603858)</b>		<b>Source: 86059</b>			Prepared: 03/09/2022 Analyzed: 03/09/2022					
Acenaphthene	0.0909	0.000304	mg/Kg	0.163	86059	55.7	30-130			
1-Methylnaphthalene	0.103	0.000364	"	0.163	86059	63.1	30-130			
2-Methylnaphthalene	0.0944	0.000645	"	0.163	86059	57.9	30-130			
Anthracene	0.106	0.000334	"	0.163	86059	65	30-130			
Benzo(a)anthracene	0.112	0.000493	"	0.163	86059	68.7	30-130			
Benzo(a)pyrene	0.123	0.000468	"	0.163	86059	75.4	30-130			
Benzo(b)fluoranthene	0.0721	0.000585	"	0.163	86059	44.2	30-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch L603858 - 3550B**

MS (L 86059-MS-L603858)	Source: 86059		Prepared: 03/09/2022 Analyzed: 03/09/2022							
Naphthalene	0.0994	0.000484	mg/Kg	0.163	86059	60.9	30-130			
Benzo(k)fluoranthene	0.0886	0.000437	"	0.163	86059	54.3	30-130			
Chrysene	0.118	0.000624	"	0.163	86059	72.3	30-130			
Fluoranthene	0.113	0.000394	"	0.163	86059	69.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0863	0.000627	"	0.163	86059	52.9	30-130			
Pyrene	0.113	0.000643	"	0.163	86059	69.3	30-130			
Dibenz(a,h)anthracene	0.11	0.000614	"	0.163	86059	67.4	30-130			
Fluorene	0.101	0.000286	"	0.163	86059	61.9	30-130			
Surrogate: 4-Terphenyl-d14	88.3		"	0.327	318	88.3	33-122			
Surrogate: 2-Fluorobiphenyl	67.2		"	0.327	214	67.2	33-115			
Surrogate: Nitrobenzene-d5	57.4		"	0.327	187	57.4	29-110			

LCS (LCS-L603858)	Prepared: 03/09/2022 Analyzed: 03/09/2022									
Fluoranthene	0.113	0.000394	mg/Kg	0.167		67.6	30-130			
2-Methylnaphthalene	0.0917	0.000645	"	0.167		54.9	30-130			
Anthracene	0.104	0.000334	"	0.167		62.2	30-130			
Benzo(a)pyrene	0.126	0.000468	"	0.167		75.4	30-130			
Benzo(b)fluoranthene	0.0773	0.000585	"	0.167		46.2	30-130			
Benzo(k)fluoranthene	0.0922	0.000437	"	0.167		55.2	30-130			
1-Methylnaphthalene	0.1	0.000364	"	0.167		59.8	30-130			
Dibenz(a,h)anthracene	0.108	0.000614	"	0.167		64.6	30-130			
Acenaphthene	0.0874	0.000304	"	0.167		52.3	30-130			
Fluorene	0.0976	0.000286	"	0.167		58.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0831	0.000627	"	0.167		49.7	30-130			
Naphthalene	0.0982	0.000484	"	0.167		58.8	30-130			
Pyrene	0.113	0.000643	"	0.167		67.6	30-130			
Chrysene	0.115	0.000624	"	0.167		68.8	30-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch L603858 - 3550B**

**LCS (LCS-L603858)**

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

Benzo(a)anthracene	0.118	0.000493	mg/Kg	0.167		70.6	30-130			
Surrogate: 2-Fluorobiphenyl	74.1		"	0.333		74.1	33-115			
Surrogate: 4-Terphenyl-d14	91.5		"	0.333		91.5	33-122			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			

**LRB (LRB-L603858)**

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

Acenaphthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	75.6		"	0.333		75.6	33-115			
Surrogate: 4-Terphenyl-d14	95.1		"	0.333		95.1	33-122			
Surrogate: Nitrobenzene-d5	60.9		"	0.333		60.9	29-110			

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

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

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

**Batch L603315 - 3050B**

<b>MSD (L 86448-MSD-L603315)</b>		<b>Source: 86448</b>			<b>Prepared: 03/07/2022 Analyzed: 03/10/2022</b>					
Barium	110	0.042	mg/Kg	4.95	99.3	216	75-125	13	80	*
Copper	8.05	0.0806	"	2.47	5.63	98	75-125	4.9	80	
Arsenic	4.42	0.0855	"	2.47	3.15	51	75-125	2.4	80	*
Cadmium	0.585	0.0259	"	0.495	0.105	97	75-125	9.6	80	
Nickel	10.8	0.0633	"	2.47	8.44	95	75-125	1.8	80	
Selenium	4.03	0.103	"	4.95	0.322	75	75-125	0.9	80	
Silver	0.506	0.0067	"	0.495	0.0232	98	75-125	7.3	80	
Zinc	51.1	0.534	"	24.7	26.1	101	75-125	7.9	80	
Lead	8.87	0.031	"	2.47	6.4	100	75-125	3.2	80	

<b>MS (L 86448-MS-L603315)</b>		<b>Source: 86448</b>			<b>Prepared: 03/07/2022 Analyzed: 03/10/2022</b>					
Copper	7.66	0.0806	mg/Kg	2.38	5.63	85	75-125			
Lead	8.59	0.031	"	2.38	6.4	92	75-125			
Nickel	10.6	0.0633	"	2.38	8.44	91	75-125			
Selenium	3.99	0.103	"	4.75	0.322	77	75-125			
Silver	0.47	0.0067	"	0.475	0.0232	94	75-125			
Cadmium	0.531	0.0259	"	0.475	0.105	90	75-125			
Barium	96.5	0.042	"	4.75	99.3	NR	75-125			*
Arsenic	4.53	0.0855	"	2.38	3.15	58	75-125			*
Zinc	47.2	0.534	"	23.8	26.1	89	75-125			

<b>LCS (LCS-L603315)</b>		<b>Prepared: 03/07/2022 Analyzed: 03/10/2022</b>								
Arsenic	2.47	0.0855	mg/Kg	2.5		99	80-120			
Selenium	5.04	0.103	"	5		101	80-120			
Silver	0.529	0.0067	"	0.5		106	80-120			
Zinc	26	0.534	"	25		104	80-120			
Lead	2.59	0.031	"	2.5		104	80-120			

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

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

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

**Batch L603315 - 3050B**

**LCS (LCS-L603315)**

Prepared: 03/07/2022 Analyzed: 03/10/2022

Copper	2.6	0.0806	mg/Kg	2.5		104	80-120			
Nickel	2.73	0.0633	"	2.5		109	80-120			
Barium	5.28	0.042	"	5		106	80-120			
Cadmium	0.511	0.0259	"	0.5		102	80-120			

**LRB (LRB-L603315)**

Prepared: 03/07/2022 Analyzed: 03/10/2022

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

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 #16-7

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

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

Origins Laboratory, Inc.



*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 #16-7

---

**Notes and Definitions**

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

Origins Laboratory, Inc.



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

March 25, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Lilli Unit #16-7

Project Number - [none]

Attached are your analytical results for Noble - Lilli Unit #16-7 received by Origins Laboratory, Inc. March 14, 2022. This project is associated with Origins project number Y203341-01.

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 #16-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y203341-01	Soil	March 2, 2022 11:30	03/14/2022 13:33

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 #16-7

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y203341

Client: Eagle

Client Project ID: Lilli Unit 16-7

Checklist Completed by: SG

Shipped Via: HS

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

Date/time completed: 3/14/22

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.9 °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTS due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / ( pH >10 for samples preserved with Na <sub>2</sub> SO <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) [Signature]

Date/Time Reviewed 3-15-22

Origins Laboratory, Inc.

[Signature]

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 #16-7

**Background-01@3'**  
**3/2/2022 11:30:00AM**

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

**Waypoint Analytical, LLC.**  
**Y203341-01 (Soil)**

**Total Metals by 6020B**

Arsenic	1.05	0.0855	0.25	mg/Kg	5	L605007	03/15/2022	03/20/2022	
Lead	0.298	0.031	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lilli Unit #16-7

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

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

**Batch L605007 - 3050B**

<b>MSD (L 90762-MSD-L605007)</b>		<b>Source: 90762</b>			Prepared: 03/15/2022 Analyzed: 03/25/2022					
Selenium	3.53	0.103	mg/Kg	4.78	<0.103	74	75-125	11.9	80	*
Lead	7.15	0.031	"	2.39	5.19	82	75-125	2.6	80	
Arsenic	3.46	0.0855	"	2.39	1.75	72	75-125	4.2	80	*
<b>MS (L 90762-MS-L605007)</b>		<b>Source: 90762</b>			Prepared: 03/15/2022 Analyzed: 03/25/2022					
Selenium	3.98	0.103	mg/Kg	4.94	<0.103	81	75-125			
Lead	7.34	0.031	"	2.47	5.19	87	75-125			
Arsenic	3.61	0.0855	"	2.47	1.75	75	75-125			
<b>LCS (LCS-L605007)</b>		Prepared: 03/15/2022 Analyzed: 03/25/2022								
Selenium	4.81	0.103	mg/Kg	5		96	80-120			
Lead	2.46	0.031	"	2.5		98	80-120			
Arsenic	2.06	0.0855	"	2.5		82	80-120			
<b>LRB (LRB-L605007)</b>		Prepared: 03/15/2022 Analyzed: 03/20/2022								
Selenium	ND	0.25	mg/Kg				-			
Lead	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #16-7

---

**Notes and Definitions**

\* 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.*