

# 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 1-103.899150							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								
<b>Wellhead(s)</b>								
Well API	05-123-13914							
Age	years							
Condition of surface around wellhead	Petroleum hydrocarbon staining adjacent to wellhead							
PID Readings	0.6							
Condition of subsurface (catalina present)	Petroleum hydrocarbon staining and odor on west sidewalk and floor							
PID Readings	8.4	1.5	13.3	244.6	28.5			
Sample taken? Location/Sample ID#	WH-SS-01@5'	WH-SS-02@5'	WH-SS-03@5'	WH-SS-04@5'	WH-SS-01@6'			
Photo Number(s)	See photolog							
Other observations regarding wellheads: Riser cut/capped following assessment								
<b>Summary</b>								
Was impacted soil identified? No <input type="radio"/> Yes <input checked="" type="radio"/> 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:				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:				
Sheen 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**



**Topographic Site Location Map**

Lilli Unit #16-7  
 Closure Assessment  
 40.670890 / -103.899150  
 SE¼ SEC.7 T8N R58W 6PM  
 Weld County, Colorado  
 API # 05-123-13914  
 Remediation # 21705



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Source: USGS 7.5 Minute Topographic  
 Map, Raymer NW, CO Quadrangle  
 2019

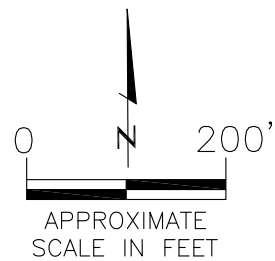
**Figure 1**





# 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



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 Ph: 303-433-0479 • F: 303-325-5449



# 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  
REMEDIATION # 21705

DATE:  
05/02/22

DRAWN BY:  
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FIG.  
NO. 3



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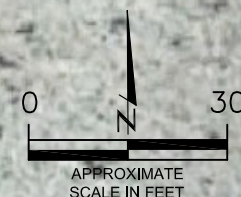
WH-SS-01@5'  
03/02/22  
5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.218  
EC = 0.556  
SAR= 5.08  
pH = 8.26

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-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

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



APPROXIMATE  
SCALE IN FEET





LEGEND

--- INITIAL ASSESSMENT BOUNDARIES

● 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  
REMEDIATION # 21705

DATE:  
05/02/22

DRAWN BY:  
AMN

FIG.  
NO. 4



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# LEGEND

--- INITIAL ASSESSMENT BOUNDARIES

● APPROXIMATE LOCATION OF SOIL SAMPLES  
SUBMITTED FOR LABORATORY ANALYSIS

## 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

\*VALUES 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  
REMEDIAL # 21705

DATE:  
05/02/22

DRAWN BY:  
AMN

FIG.  
NO. 5



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## **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  
REMEDIATION # 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
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
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 Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit. Note: Values presented in <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed COGCC Table 915-1 protection of groundwater soil screening levels for that compound																
				TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				1,2,4-TMB = 1,2,4-Trimethylbenzene				MDL = Minimum Detection Limits				
				TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				1,3,5-TMB = 1,3,5-Trimethylbenzene								
				TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics												



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  
REMEDIAATION # 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)
COGCC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
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 mg/kg = milligrams per kilogram 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																		
PID = Photoionization Detector ppm-v = parts per million by volume																		

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)
COGCC Table 915-1 Residential Screening Levels			0.68***	15,000	71	0.3	3,100	400	1,500	390	390	23,000
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels			0.29***	82	0.38	0.00067	46	14	26	0.26	0.8	370
Local Cleanup Levels			1.31***	--	--	0.1 to 1**	--	--	--	--	--	--
WH-SS-04 @ 5' (40.670880 / -103.899148)	03/02/22	5	8.41***	54	0.182	<0.244**	7.53	28*	5.85	0.359*	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 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 <b>BOLD</b> 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.



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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 #16-7

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: Y203114

Client: Eagle

Client Project ID: Lilli Unit 16-7

Checklist Completed by: SG

Date/time completed: 3/4/22

Shipped Via: HD  
(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 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T003

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

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



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #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
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Origins Laboratory, Inc.  
Y203114-01 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.218	0.0992	mg/L	1	B2C0702	03/07/2022	03/08/2022	
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## 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	"	"	"	"	"	
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## 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	"	"	"	"	"	
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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 #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
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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	0.853	0.499	meq/L	10	[CALC]	03/04/2022	03/07/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.07	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00305	0.000364	0.00067	mg/Kg	1	L603858	03/09/2022	03/09/2022
2-Methylnaphthalene	0.00287	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	0.00114	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00076	0.000286	0.00067	"	"	"	"	"

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 #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
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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	0.00138	0.000484	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	8.26	pH Units	1	B2C0416	03/04/2022	03/05/2022
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## SAR by 20B Saturated Paste

SAR	5.08	SAR	1	B2C0411	03/04/2022	03/07/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.566	0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022
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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 #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
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Origins Laboratory, Inc.  
Y203114-02 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.178	0.0991	mg/L	1	B2C0702	03/07/2022	03/08/2022	
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**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	"	"	"	"	"
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**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	"	"	"	"	"
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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 #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
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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	0.933	0.499	meq/L	10	[CALC]	03/04/2022	03/07/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.67	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.



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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 #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
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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
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## SAR by 20B Saturated Paste

SAR	5.57	SAR	1	B2C0411	03/04/2022	03/07/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.638	0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022
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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 #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
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**Origins Laboratory, Inc.**  
**Y203114-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.160	0.0999	mg/L	1	B2C0702	03/07/2022	03/08/2022	
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**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			"	"	"	
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**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
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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
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## 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
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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	
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## SAR by 20B Saturated Paste

SAR	5.17			SAR	1	B2C0411	03/04/2022	03/07/2022	
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.37		0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022	
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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 #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
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Origins Laboratory, Inc.  
Y203114-04 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.317	0.0990	mg/L	1	B2C0702	03/07/2022	03/08/2022	
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### 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			"	"	"	
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### 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.



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

## GBTEX+TMBs by 8260D

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



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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 #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
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**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	7.98	pH Units	1	B2C0416	03/04/2022	03/05/2022
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**SAR by 20B Saturated Paste**

SAR	2.26	SAR	1	B2C0411	03/04/2022	03/07/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.672	0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022
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**Total Metals by 6020B**

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

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lilli Unit #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
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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	
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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 #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
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Origins Laboratory, Inc.  
Y203114-05 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.237	0.0988	mg/L	1	B2C0702	03/07/2022	03/08/2022	
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## 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	"	"	"	"	"
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## 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.



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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 #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
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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
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## 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.



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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 #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
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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	0.00308	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00152	0.000643	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	8.03			pH Units	1	B2C0416	03/04/2022	03/05/2022
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## SAR by 20B Saturated Paste

SAR	2.91			SAR	1	B2C0411	03/04/2022	03/07/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.614		0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022
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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 #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 B2C0418 - EPA 5030 (soil)</b>										
<b>Blank (B2C0418-BLK1)</b>					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.



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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 #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
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**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.



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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 #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
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**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.



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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 #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 B2C0418 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2C0418-MSD1)</b>		<b>Source: Y203100-01</b>			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.



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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 #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 B2C0714 - EPA 3550B										
Blank (B2C0714-BLK1)					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.



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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 #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
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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.



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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 #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
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**Batch B2C0714 - EPA 3550B**

Matrix Spike (B2C0714-MS1)		Source: Y203113-02			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.



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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 #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										
Matrix Spike Dup (B2C0714-MSD1)		Source: Y203113-02			Prepared: 03/07/2022 Analyzed: 03/09/2022					
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	
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - 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
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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 B2C0416 - NO PREP

#### Duplicate (B2C0416-DUP1)

Source: Y203113-04

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

pH	8.02		pH Units	8.00		0.250	25
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#### Batch B2C0417 - NO PREP

#### Blank (B2C0417-BLK1)

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

Specific Conductance (EC)	0.000900	0.00500	mmhos/cm
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#### Duplicate (B2C0417-DUP1)

Source: Y203113-04

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

Specific Conductance (EC)	0.699	0.00500	mmhos/cm	0.746		6.62	25
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Origins Laboratory, Inc.



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

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - 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
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**Batch L603858 - 3550B**

MSD (L 86059-MSD-L603858)		Source: 86059			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			

MS (L 86059-MS-L603858)		Source: 86059			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.



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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 #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
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**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.



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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 #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
<b>Batch L603858 - 3550B</b>										
<b>LCS (LCS-L603858)</b>					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			
<b>LRB (LRB-L603858)</b>					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.



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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 #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
<b>Batch L603315 - 3050B</b>										
<b>MSD (L 86448-MSD-L603315)</b>			<b>Source: 86448</b>		Prepared: 03/07/2022 Analyzed: 03/10/2022					
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>		Prepared: 03/07/2022 Analyzed: 03/10/2022					
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>			Prepared: 03/07/2022 Analyzed: 03/10/2022							
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.



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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 #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
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### 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.



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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 #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.



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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 #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



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
Background-01@3'	Y203341-01	Soil	March 2, 2022 11:30	03/14/2022 13:33

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 #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  
Date/time completed: 3/14/22 (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 / 2.9 °C 1 °C 1 °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) JO

3-15-22  
Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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

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

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

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

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



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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 #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
<b>Batch L605007 - 3050B</b>										
<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.*