

## Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure	Tank Battery Closure 5-12-22	Flowline Closure 5-12-22	Partially Buried Vault Closure 5-12-22
Site Name & COGCC Facility Number: Roth #12-30	Date: 3-30-22	Remediation Project #: 22292			
Associated Wells: 05-123-13046	Age of Site: years	Number of Photos Attached: 1			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.455025 / -104.599906				Estimated Facility Size (acres):	

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

USCS Soil Type: SC Estimated Depth to Groundwater: ~7-20'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
Petroleum hydrocarbon odor observed throughout excavation

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

#### Wellhead(s)

Well API	05-123-13046				
Age	years				
Condition of surface around wellhead	Good-Per Crew				
PID Readings	N/A - Excavated upon arrival				
Condition of subsurface (staining present)	Petroleum hydrocarbon odor observed throughout excavation				
PID Readings	115.7	134.5	121.1	114.4	120.1
Sample taken? Location/Sample ID#	WH-SS-01@5'	WH-SS-02@5'	WH-SS-03@5'	WH-SS-04@5'	WH-FS-01@6'
Photo Number(s)	See photolog				

Other observations regarding wellheads:

#### Summary

Was impacted soil identified?	No	Yes - less than 10 cubic yards	<u>Yes - more than 10 cubic yards</u>
Total number of samples field screened:	5		Total number of samples collected: 5
Highest PID Reading:	134.5		Total number of samples submitted to lab for analysis: 5
If more than 10 cubic yards of impacted soil were observed:			
Vertical extent:	> 6'		Estimated spill volume: To be determined
Lateral extent:	> 8' x 8'		Volume of soil removed: To be determined
Is additional investigation required?	Yes		
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**

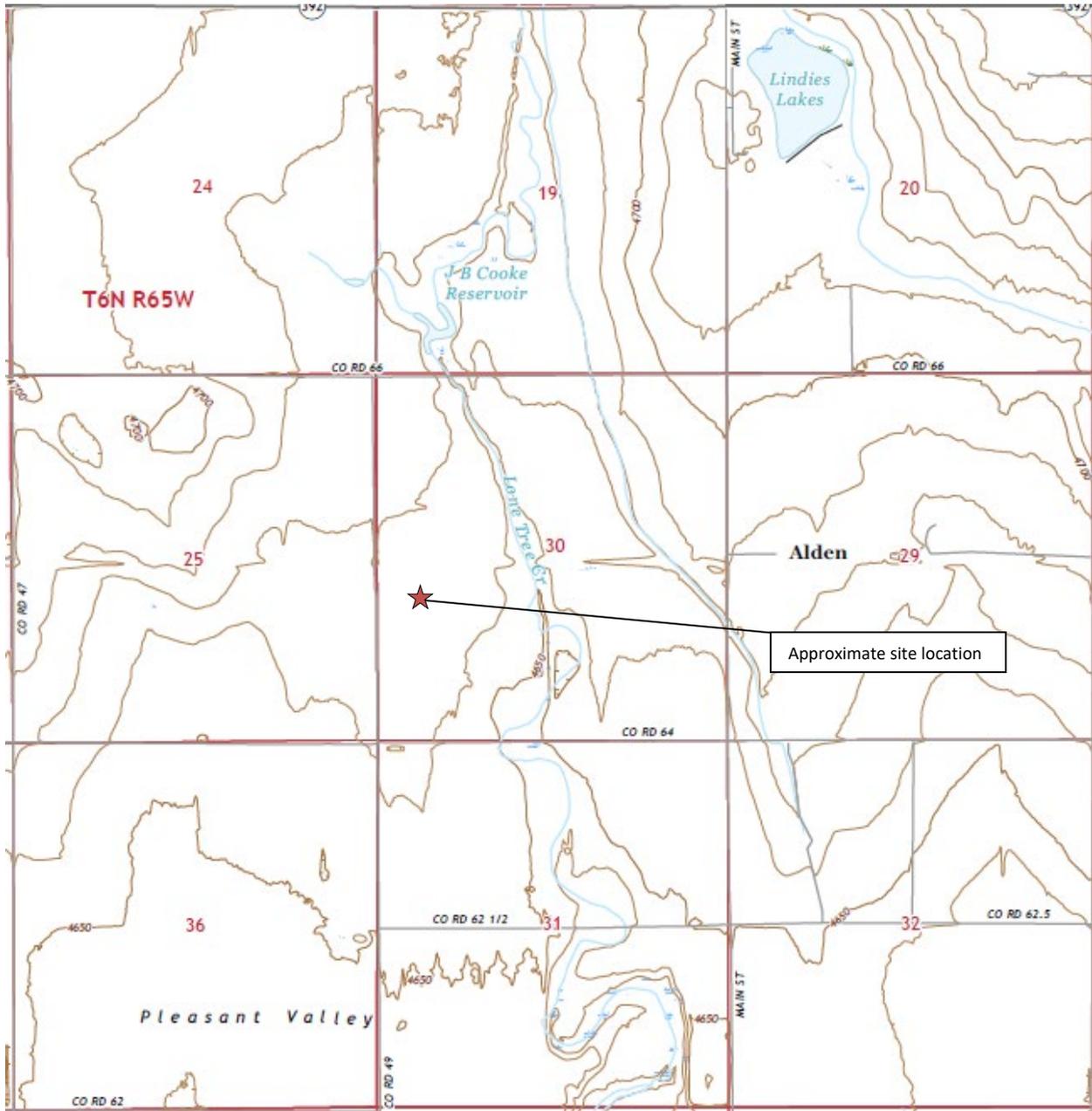
**Figure 1: Topographic Site Location Map**

**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**

Roth #12-30  
 Closure Assessment  
 40.455025 / -104.599906  
 NW¼ SW¼ SEC.30 T6N R64W 6PM  
 Weld County, Colorado  
 API # 05-123-13046  
 Remediation # 22292



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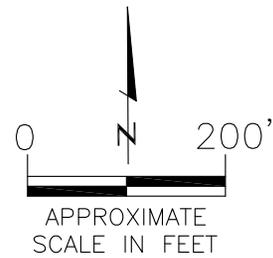
Source: USGS 7.5 Minute Topographic Map, Kersey, CO Quadrangle 2022

**Figure 1**



**LEGEND**

- FORMER ROTH #12-30 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)



AERIAL SITE LOCATION MAP  
 ROTH #12-30  
 CLOSURE ASSESSMENT  
 40.455025 / -104.599906  
 NW¼ SW¼ SEC.30 T6N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13046  
 REMEDIATION # 22292

DATE: 09/20/22

FIG. NO. 2      DRAWN BY: RH



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WH-FS-01@6'  
03/30/22  
6'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = 35.5  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.216  
EC = 0.867  
SAR= 1.08  
pH = 7.82

WH-SS-01@5'  
03/30/22  
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= <0.100  
EC = 0.289  
SAR= 1.04  
pH = 7.90

WH-SS-02@5'  
03/30/22  
5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = 55.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.393  
EC = 0.719  
SAR= 0.980  
pH = 7.76

WH-SS-04@5'  
03/30/22  
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= 0.338  
EC = 0.750  
SAR= 0.881  
pH = 7.88

WH-SS-03@5'  
03/30/22  
5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = 46.6  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.381  
EC = 0.736  
SAR= 1.03  
pH = 7.78

**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

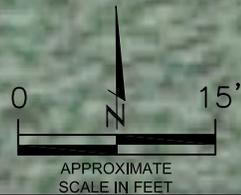
**NOTES:**  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

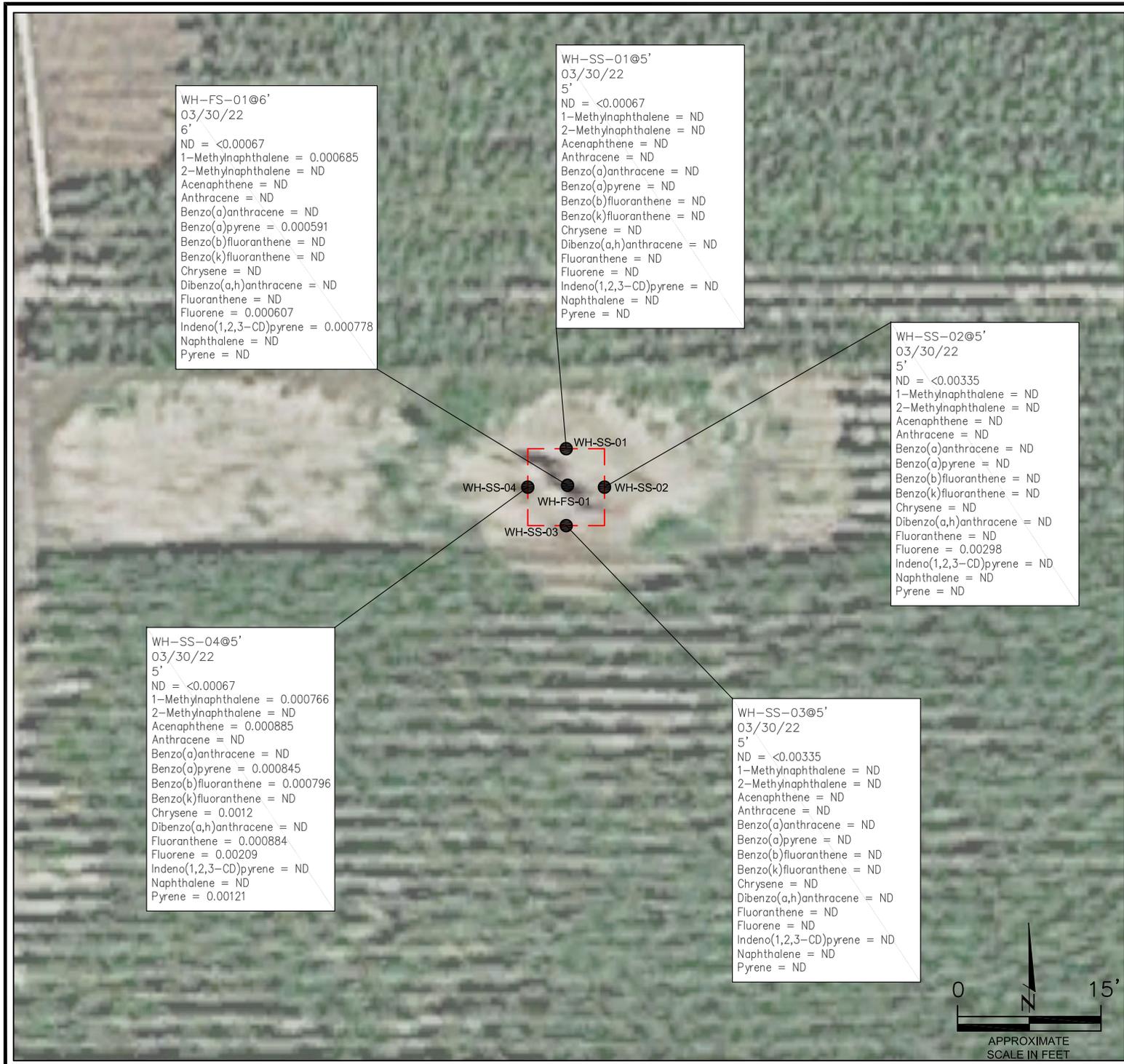
VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**SOIL ANALYTICAL MAP**  
ROTH #12-30  
CLOSURE ASSESSMENT  
40.455025 / -104.599906  
NW¼ SW¼ SEC.30 T6N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13046  
REMEDATION # 22292

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





**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** CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

ROTH #12-30  
CLOSURE ASSESSMENT  
40.455025 / -104.599906  
NW¼ SW¼ SEC.30 T6N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13046  
REMEDATION # 22292

DATE:  
05/02/22

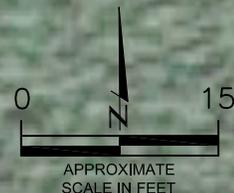
DRAWN BY:  
GEC

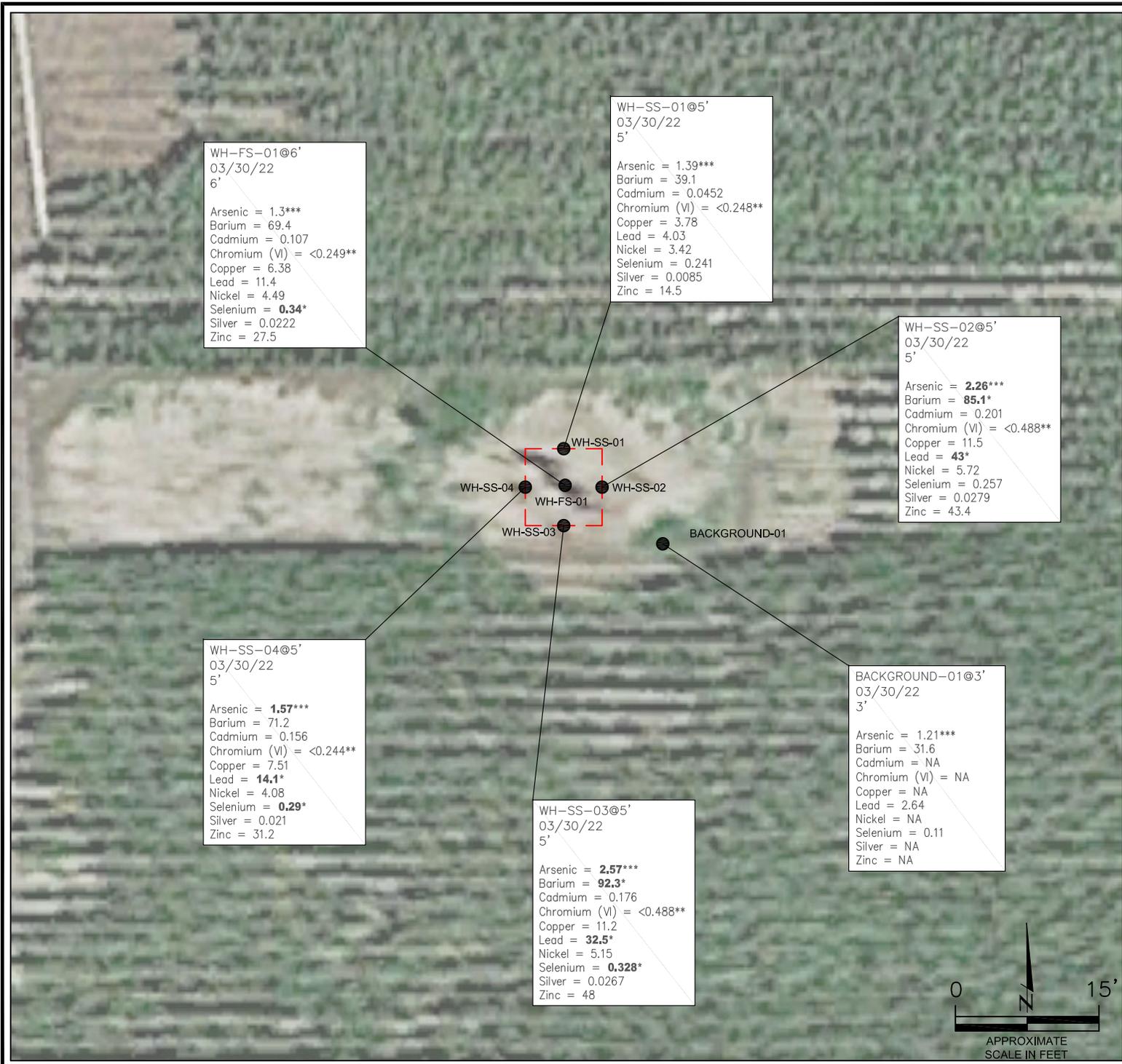
FIG.  
NO. 4



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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

NA = NOT ANALYZED

**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** CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS

\*VALUES EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS

\*\*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. THE LOCAL CLEAN-UP LEVEL (1.51 mg/kg) IS 1.25\*BACKGROUND (1.21 mg/kg)

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**METALS IN SOIL MAP**  
ROTH #12-30  
CLOSURE ASSESSMENT  
40.455025 / -104.599906  
NW¼ SW¼ SEC.30 T6N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13046  
REMIEDIATION # 22292

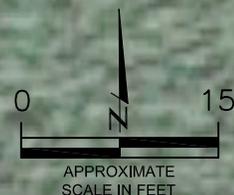
DATE:  
05/02/22

DRAWN BY:  
GEC

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**  
**ROTH #12-30**  
**CLOSURE ASSESSMENT**  
**40.455025 / -104.599906**  
**NW1/4 SW1/4 SEC.30 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13046**  
**REMEDIATION # 22292**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.455049 / -104.599926)	03/30/22	5	115.7	Y
WH-SS-02 @ 5' (40.455042 / -104.599907)	03/30/22	5	134.5	Y
WH-SS-03 @ 5' (40.455025 / -104.599928)	03/30/22	5	121.1	Y
WH-SS-04 @ 5' (40.455037 / -104.599944)	03/30/22	5	114.4	Y
WH-FS-01 @ 6' (40.455036 / -104.599929)	03/30/22	6	120.1	Y
Background-01 @ 3' (40.455022 / -104.599889)	03/30/22	3	9.0	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

**TABLE 2**  
**SOIL ANALYTICAL RESULTS SUMMARY**  
**ROTH #12-30**  
**CLOSURE ASSESSMENT**  
**40.455025 / -104.599906**  
**NW1/4 SW1/4 SEC.30 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13046**  
**REMEDIATION # 22292**

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' (40.455049 / -104.599926)	03/30/22	5	115.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.289	7.90	1.04
WH-SS-02 @ 5' (40.455042 / -104.599907)	03/30/22	5	134.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	55.0	<100	<0.00200	<0.00200	0.393	0.719	7.76	0.980
WH-SS-03 @ 5' (40.455025 / -104.599928)	03/30/22	5	121.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	46.6	<100	<0.00200	<0.00200	0.381	0.736	7.78	1.03
WH-SS-04 @ 5' (40.455037 / -104.599944)	03/30/22	5	114.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.338	0.750	7.88	0.881
WH-FS-01 @ 6' (40.455036 / -104.599929)	03/30/22	6	120.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	35.5	<100	<0.00200	<0.00200	0.216	0.867	7.82	1.08

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

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

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

**TABLE 3**  
**POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY**  
 ROTH #12-30  
 CLOSURE ASSESSMENT  
 40.455025 / -104.599906  
 NW1/4 SW1/4 SEC.30 T6N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13046  
 REMEDIATION # 22292

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' (40.455049 / -104.599926)	03/30/22	5	115.7	<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-02 @ 5' (40.455042 / -104.599907)	03/30/22	5	134.5	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	0.00298	<0.00335	<0.00335	<0.00335
WH-SS-03 @ 5' (40.455025 / -104.599928)	03/30/22	5	121.1	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
WH-SS-04 @ 5' (40.455037 / -104.599944)	03/30/22	5	114.4	0.000766	<0.00067	0.000885	<0.00067	<0.00067	0.000845	0.000796	<0.00067	0.0012	<0.00067	0.000884	0.00209	<0.00067	<0.00067	0.00121
WH-FS-01 @ 6' (40.455036 / -104.599929)	03/30/22	6	120.1	0.000685	<0.00067	<0.00067	<0.00067	<0.00067	0.000591	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000607	0.000778	<0.00067	<0.00067

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

**TABLE 4**  
**METALS ANALYTICAL RESULTS SUMMARY**  
**ROTH #12-30**  
**CLOSURE ASSESSMENT**  
**40.455025 / -104.599906**  
**NW1/4 SW1/4 SEC.30 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13046**  
**REMEDIATION # 22292**

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 Clean-up Level</b>			<b>1.51***</b>	<b>--</b>	<b>--</b>	<b>0.1 to 1**</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
WH-SS-01 @ 5' (40.455049 / -104.599926)	03/30/22	5	1.39***	39.1	0.0452	<0.248**	3.78	4.03	3.42	0.241	0.0085	14.5
WH-SS-02 @ 5' (40.455042 / -104.599907)	03/30/22	5	<b>2.26***</b>	<b>85.1*</b>	0.201	<0.488**	11.5	<b>43*</b>	5.72	0.257	0.0279	43.4
WH-SS-03 @ 5' (40.455025 / -104.599928)	03/30/22	5	<b>2.57***</b>	<b>92.3*</b>	0.176	<0.488**	11.2	<b>32.5*</b>	5.15	<b>0.328*</b>	0.0267	48
WH-SS-04 @ 5' (40.455037 / -104.599944)	03/30/22	5	<b>1.57***</b>	71.2	0.156	<0.244**	7.51	<b>14.1*</b>	4.08	<b>0.29*</b>	0.021	31.2
WH-FS-01 @ 6' (40.455036 / -104.599929)	03/30/22	6	1.3***	69.4	0.107	<0.249**	6.38	11.4	4.49	<b>0.34*</b>	0.0222	27.5
Background-01 @ 3' (40.455022 / -104.599889)	03/30/22	3	1.21***	31.6	NA	NA	NA	2.64	NA	0.11	NA	NA

COGCC = Colorado Oil and Gas Conservation Commission  
 mg/kg = milligrams per kilogram  
 NA = Not Analyzed  
 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 in **BOLD+\*** 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. The Local Clean-up Level (1.51 mg/kg) is 1.25\*Background (1.21 mg/kg).



## **ATTACHMENT A**

### **Photo Log**

Roth #12-30  
API # 05-123-13046  
Remediation # 22292

Wellhead Closure Assessment

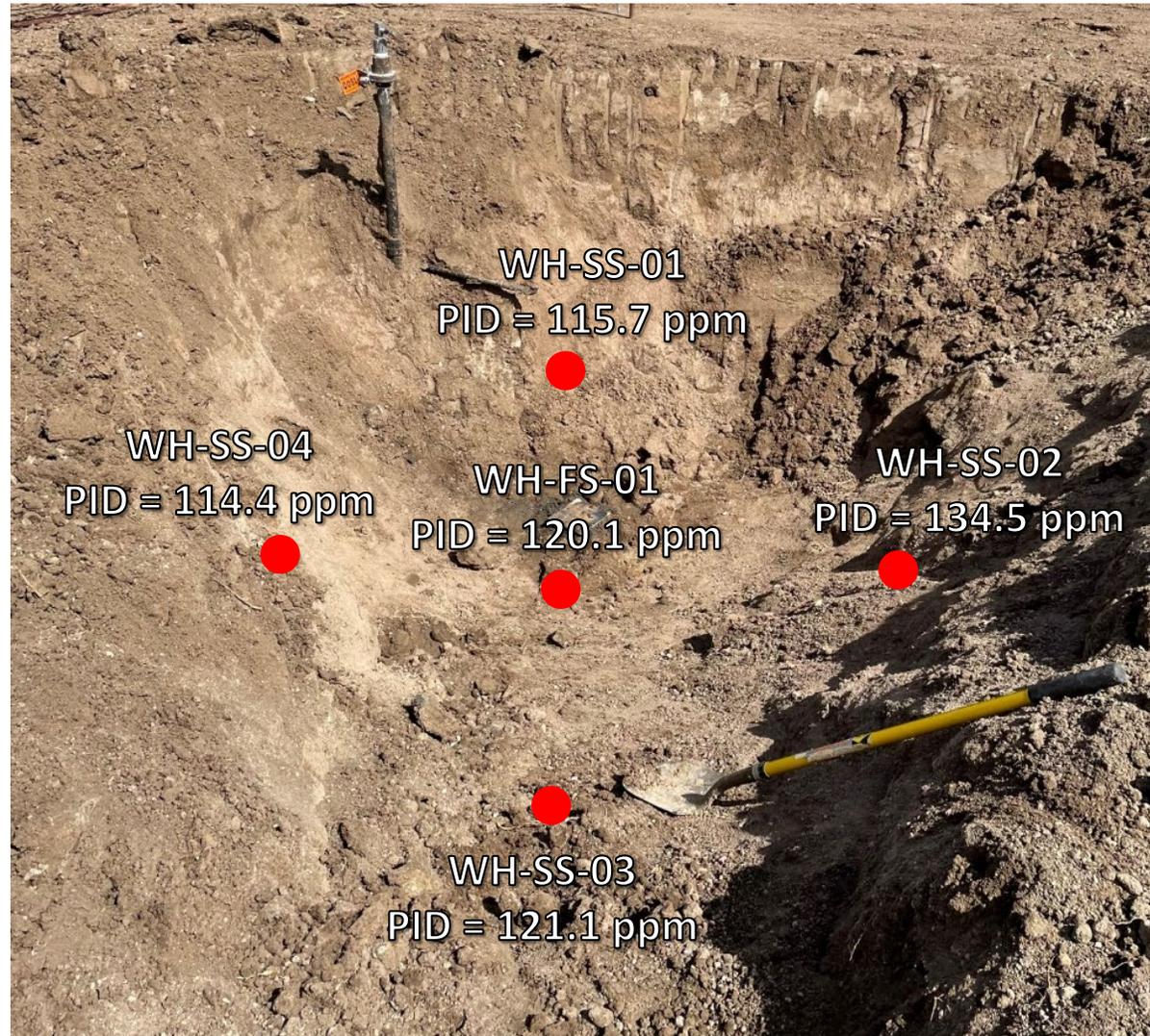
March 2022



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



# Wellhead Excavation – 03/30/22



Looking north

No petroleum hydrocarbon staining observed, odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Reports**



April 21, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Roth #12-30

Project Number - [none]

Attached are your analytical results for Noble - Roth #12-30 received by Origins Laboratory, Inc. March 30, 2022. This project is associated with Origins project number Y203800-01.

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 - Roth #12-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y203800-01	Soil	March 30, 2022 11:40	03/30/2022 16:30
WH-SS-02@5'	Y203800-02	Soil	March 30, 2022 11:42	03/30/2022 16:30
WH-SS-03@5'	Y203800-03	Soil	March 30, 2022 11:45	03/30/2022 16:30
WH-SS-04@5'	Y203800-04	Soil	March 30, 2022 11:47	03/30/2022 16:30
WH-FS-01@6'	Y203800-05	Soil	March 30, 2022 11:49	03/30/2022 16:30

Origins Laboratory, Inc.



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



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y203800 Client: Eagle  
 Client Project ID: Roth 12-30

Checklist Completed by: SG Shipped Via: HD  
 Date/time completed: 3/31/22 (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 / 5.9 °c \_\_\_\_\_ °c \_\_\_\_\_ °c (Describe)  
 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 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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 4/1/22

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 - Roth #12-30

**WH-SS-01@5'**  
**3/30/2022 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203800-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B2C3125	03/31/2022	04/01/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C3107	03/31/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 126 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D0507	04/05/2022	04/07/2022	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 116 % 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 - Roth #12-30

**WH-SS-01@5'**

**3/30/2022 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203800-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.6 %		70-130			B2D05 07	04/05/2022	04/07/2022	
Surrogate: 4-Bromofluorobenzene	98.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.15		0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.944		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L610198	04/12/2022	04/15/2022	
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 - Roth #12-30

**WH-SS-01@5'**  
**3/30/2022 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203800-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L610198	04/12/2022	04/15/2022	
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	60.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	66.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	42 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.90			pH Units	1	B2D0407	04/04/2022	04/05/2022	
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**SAR by 20B Saturated Paste**

SAR	1.04			SAR	1	B2D0108	04/01/2022	04/05/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.289		0.00500	mmhos/cm	1	B2D0406	04/04/2022	04/05/2022	
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**Total Metals by 6020B**

Arsenic	1.39	0.0855	0.25	mg/Kg	5	L610159	04/11/2022	04/15/2022	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**WH-SS-01@5'**  
**3/30/2022 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203800-01 (Soil)**

**Total Metals by 6020B**

Barium	39.1	0.042	0.25	mg/Kg	5	L610159	04/11/2022	04/15/2022	
Cadmium	0.0452	0.0259	0.25	"	"	"	"	"	J
Copper	3.78	0.0806	0.25	"	"	"	"	"	
Lead	4.03	0.031	0.25	"	"	"	"	"	
Nickel	3.42	0.0633	0.25	"	"	"	"	"	
Selenium	0.241	0.103	0.25	"	"	"	"	"	J
Silver	0.0085	0.0067	0.25	"	"	"	"	"	J
Zinc	14.5	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L611215	03/30/2022	04/16/2022	
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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 - Roth #12-30

**WH-SS-02@5'**

**3/30/2022 11:42:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203800-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.393		0.0981	mg/L	1	B2D0110	04/01/2022	04/04/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	55.0		25.0	mg/kg	1	B2C3107	03/31/2022	04/05/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	129 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D0507	04/05/2022	04/08/2022	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	117 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.5 %		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 - Roth #12-30

**WH-SS-02@5'**  
**3/30/2022 11:42:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203800-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	98.1 %		70-130			B2D05 07	04/05/2022	04/08/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.29		0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022	
Magnesium	1.65		0.823	"	"	"	"	"	
Sodium	1.54		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L610198	04/12/2022	04/15/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.00298	0.00143	0.00335	"	"	"	"	"	J

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 - Roth #12-30

**WH-SS-02@5'**  
**3/30/2022 11:42:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203800-02 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L610198	04/12/2022	04/15/2022	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	73.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	48.3 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.76			pH Units	1	B2D0407	04/04/2022	04/05/2022	
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**SAR by 20B Saturated Paste**

SAR	0.980			SAR	1	B2D0108	04/01/2022	04/05/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.719		0.00500	mmhos/cm	1	B2D0406	04/04/2022	04/05/2022	
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**Total Metals by 6020B**

Arsenic	2.26	0.0855	0.25	mg/Kg	5	L610159	04/11/2022	04/15/2022	
Barium	85.1	0.042	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 - Roth #12-30

**WH-SS-02@5'**

**3/30/2022 11:42:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203800-02 (Soil)**

**Total Metals by 6020B**

Cadmium	0.201	0.0259	0.25	mg/Kg	5	L610159	04/11/2022	04/15/2022	J
Copper	11.5	0.0806	0.25	"	"	"	"	"	
Lead	43	0.031	0.25	"	"	"	"	"	
Nickel	5.72	0.0633	0.25	"	"	"	"	"	
Selenium	0.257	0.103	0.25	"	"	"	"	"	
Silver	0.0279	0.0067	0.25	"	"	"	"	"	J
Zinc	43.4	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L611215	03/30/2022	04/16/2022	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**WH-SS-03@5'**  
**3/30/2022 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203800-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.381		0.100	mg/L	1	B2D0110	04/01/2022	04/04/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	46.6		25.0	mg/kg	1	B2C3107	03/31/2022	04/05/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	138 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D0507	04/05/2022	04/08/2022	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	119 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.8 %		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 - Roth #12-30

**WH-SS-03@5'**

**3/30/2022 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203800-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	98.5 %		70-130			B2D05 07	04/05/2022	04/08/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.37		0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022	
Magnesium	1.86		0.823	"	"	"	"	"	
Sodium	1.67		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L610198	04/12/2022	04/15/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	ND	0.00143	0.00335	"	"	"	"	"	

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 - Roth #12-30

**WH-SS-03@5'**

**3/30/2022 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203800-03 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L610198	04/12/2022	04/15/2022	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.2 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.78			pH Units	1	B2D0407	04/04/2022	04/05/2022	
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**SAR by 20B Saturated Paste**

SAR	1.03			SAR	1	B2D0108	04/01/2022	04/05/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.736		0.00500	mmhos/cm	1	B2D0406	04/04/2022	04/05/2022	
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**Total Metals by 6020B**

Arsenic	2.57	0.0855	0.25	mg/Kg	5	L610159	04/11/2022	04/15/2022	
Barium	92.3	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 - Roth #12-30

**WH-SS-03@5'**

**3/30/2022 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203800-03 (Soil)**

**Total Metals by 6020B**

Cadmium	0.176	0.0259	0.25	mg/Kg	5	L610159	04/11/2022	04/15/2022	J
Copper	11.2	0.0806	0.25	"	"	"	"	"	
Lead	32.5	0.031	0.25	"	"	"	"	"	
Nickel	5.15	0.0633	0.25	"	"	"	"	"	
Selenium	0.328	0.103	0.25	"	"	"	"	"	
Silver	0.0267	0.0067	0.25	"	"	"	"	"	J
Zinc	48	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L611215	03/30/2022	04/16/2022	
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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 - Roth #12-30

**WH-SS-04@5'**  
**3/30/2022 11:47:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203800-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.338		0.0994	mg/L	1	B2D0110	04/01/2022	04/04/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C3107	03/31/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	115 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D0507	04/05/2022	04/08/2022	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	117 %		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 - Roth #12-30

**WH-SS-04@5'**

**3/30/2022 11:47:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203800-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.6 %		70-130			B2D05 07	04/05/2022	04/08/2022	
Surrogate: 4-Bromofluorobenzene	98.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	3.85		0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022	
Magnesium	2.06		0.823	"	"	"	"	"	
Sodium	1.51		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000766	0.000364	0.00067	mg/Kg	1	L610198	04/12/2022	04/15/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.000885	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000845	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000796	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0012	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000884	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00209	0.000286	0.00067	"	"	"	"	"	

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**WH-SS-04@5'**  
**3/30/2022 11:47:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203800-04 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L610198	04/12/2022	04/15/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	<b>0.00121</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	48.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>7.88</b>			pH Units	1	B2D0407	04/04/2022	04/05/2022	
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**SAR by 20B Saturated Paste**

SAR	<b>0.881</b>			SAR	1	B2D0108	04/01/2022	04/05/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.750</b>		0.00500	mmhos/cm	1	B2D0406	04/04/2022	04/05/2022	
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**Total Metals by 6020B**

Arsenic	<b>1.57</b>	<b>0.0855</b>	0.25	mg/Kg	5	L610159	04/11/2022	04/15/2022	
Barium	<b>71.2</b>	<b>0.042</b>	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 - Roth #12-30

**WH-SS-04@5'**

**3/30/2022 11:47:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203800-04 (Soil)**

**Total Metals by 6020B**

Cadmium	0.156	0.0259	0.25	mg/Kg	5	L610159	04/11/2022	04/15/2022	J
Copper	7.51	0.0806	0.25	"	"	"	"	"	
Lead	14.1	0.031	0.25	"	"	"	"	"	
Nickel	4.08	0.0633	0.25	"	"	"	"	"	
Selenium	0.29	0.103	0.25	"	"	"	"	"	
Silver	0.021	0.0067	0.25	"	"	"	"	"	J
Zinc	31.2	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L611215	03/30/2022	04/16/2022	
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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 - Roth #12-30

**WH-FS-01@6'**

**3/30/2022 11:49:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203800-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.216		0.0983	mg/L	1	B2D0110	04/01/2022	04/04/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	35.5		25.0	mg/kg	1	B2C3107	03/31/2022	04/05/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	120 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D0507	04/05/2022	04/08/2022	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	117 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.4 %		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 - Roth #12-30

**WH-FS-01@6'**

**3/30/2022 11:49:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203800-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	98.4 %		70-130			B2D05 07	04/05/2022	04/08/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	4.34		0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022	
Magnesium	1.78		0.823	"	"	"	"	"	
Sodium	1.90		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000685	0.000364	0.00067	mg/Kg	1	L610198	04/12/2022	04/15/2022	
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	0.000591	0.000468	0.00067	"	"	"	"	"	J
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	"	"	"	"	"	
Fluorene	0.000607	0.000286	0.00067	"	"	"	"	"	J

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 - Roth #12-30

**WH-FS-01@6'**  
**3/30/2022 11:49:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203800-05 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	0.000778	0.000627	0.00067	mg/Kg	1	L610198	04/12/2022	04/15/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	64.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.7 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.82			pH Units	1	B2D0407	04/04/2022	04/05/2022	
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**SAR by 20B Saturated Paste**

SAR	1.08			SAR	1	B2D0108	04/01/2022	04/05/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.867		0.00500	mmhos/cm	1	B2D0406	04/04/2022	04/05/2022	
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**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L611216	03/30/2022	04/16/2022	
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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 - Roth #12-30

**WH-FS-01@6'**

**3/30/2022 11:49:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203800-05 (Soil)**

**Total Metals by 6020B**

Arsenic	1.3	0.0855	0.25	mg/Kg	5	L610159	04/11/2022	04/15/2022	
Barium	69.4	0.042	0.25	"	"	"	"	"	
Cadmium	0.107	0.0259	0.25	"	"	"	"	"	J
Copper	6.38	0.161	0.5	"	10	"	"	"	
Lead	11.4	0.031	0.25	"	5	"	"	"	
Nickel	4.49	0.127	0.5	"	10	"	"	"	
Selenium	0.34	0.103	0.25	"	5	"	"	"	
Silver	0.0222	0.0067	0.25	"	"	"	"	"	J
Zinc	27.5	1.07	5	"	10	"	"	"	

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 - Roth #12-30

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C3107 - EPA 3550B</b>										
<b>Blank (B2C3107-BLK1)</b>										
					Prepared: 03/31/2022 Analyzed: 04/05/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	30		"	24.9		120	50-150			

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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 - Roth #12-30

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C3107 - EPA 3550B**

**LCS (B2C3107-BS1)**

Prepared: 03/31/2022 Analyzed: 04/05/2022

Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000		118	70-130			
Surrogate: o-Terphenyl	70		"	49.8		140	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C3107 - EPA 3550B**

<b>Matrix Spike (B2C3107-MS1)</b>	<b>Source: Y203800-01</b>			Prepared: 03/31/2022 Analyzed: 04/06/2022						
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C3107 - EPA 3550B**

<b>Matrix Spike Dup (B2C3107-MSD1)</b>	<b>Source: Y203800-01</b>		<b>Prepared: 03/31/2022 Analyzed: 04/05/2022</b>							
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130	21.9	35	
Residual Range Organics (C28-C40)	1230	200	"	1000	ND	123	70-130	6.19	35	
Surrogate: o-Terphenyl	62		"	49.8		125	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2D0507 - EPA 5030 (soil)**

**Blank (B2D0507-BLK1)**

Prepared: 04/05/2022 Analyzed: 04/07/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.0		70-130			

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 Project Number: [none]  
 Project: Noble - Roth #12-30

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2D0507 - EPA 5030 (soil)**

**LCS (B2D0507-BS1)**

Prepared: 04/05/2022 Analyzed: 04/07/2022

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0995	0.00200	"	0.100		99.5	70-130			
Naphthalene	0.106	0.0100	"	0.100		106	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D0507 - EPA 5030 (soil)

Matrix Spike (B2D0507-MS1)	Source: Y203798-01			Prepared: 04/05/2022 Analyzed: 04/07/2022						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	0.00144	102	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130			
Naphthalene	0.0852	0.0100	"	0.100	0.00320	82.0	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130			
m,p-Xylene	0.230	0.00400	"	0.200	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D0507 - EPA 5030 (soil)

Matrix Spike Dup (B2D0507-MSD1)	Source: Y203798-01			Prepared: 04/05/2022 Analyzed: 04/07/2022						
1,2,4-Trimethylbenzene	0.0865	0.00200	mg/kg	0.100	0.00144	85.1	70-130	17.5	20	
1,3,5-Trimethylbenzene	0.0850	0.00200	"	0.100	ND	85.0	70-130	20.2	20	QM-07
Benzene	0.0994	0.00200	"	0.100	ND	99.4	70-130	1.06	20	
Ethylbenzene	0.0975	0.00200	"	0.100	ND	97.5	70-130	14.9	20	
Naphthalene	0.0862	0.0100	"	0.100	0.00320	83.0	70-130	1.14	20	
Toluene	0.0975	0.00200	"	0.100	ND	97.5	70-130	5.02	20	
o-Xylene	0.0994	0.00200	"	0.100	ND	99.4	70-130	11.7	20	
m,p-Xylene	0.196	0.00400	"	0.200	ND	97.9	70-130	15.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2D0406 - NO PREP**

**Blank (B2D0406-BLK1)**

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

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

**Duplicate (B2D0406-DUP1)**

**Source: Y203798-03**

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

Specific Conductance (EC) 1.05 0.00500 mmhos/cm 1.14 8.17 25

**Batch B2D0407 - NO PREP**

**Duplicate (B2D0407-DUP1)**

**Source: Y203798-03**

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

pH 7.39 pH Units 7.39 0.00 25

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L610198 - 3550B**

<b>MSD (L 85124-MSD-L610198)</b>		<b>Source: 85124</b>			Prepared: 04/12/2022 Analyzed: 04/15/2022					
Indeno(1,2,3-cd)pyrene	0.11	0.00314	mg/Kg	0.164	0.00322	65.1	30-130	14.6	30	
1-Methylnaphthalene	0.0954	0.00182	"	0.164	85124	58.1	30-130	8.6	30	
Pyrene	0.105	0.00322	"	0.164	85124	64	30-130	9.9	30	
Naphthalene	0.0869	0.00242	"	0.164	85124	52.9	30-130	5.9	30	
Fluorene	0.0938	0.00143	"	0.164	85124	57.1	30-130	8.3	30	
Fluoranthene	0.105	0.00197	"	0.164	85124	64	30-130	10.8	30	
Dibenz(a,h)anthracene	0.132	0.00307	"	0.164	85124	80.4	30-130	12	30	
2-Methylnaphthalene	0.0873	0.00323	"	0.164	85124	53.2	30-130	8.7	30	
Chrysene	0.0964	0.00312	"	0.164	85124	58.7	30-130	5.6	30	
Acenaphthene	0.0853	0.00152	"	0.164	85124	52	30-130	10.7	30	
Anthracene	0.0939	0.00167	"	0.164	85124	57.2	30-130	13.9	30	
Benzo(a)anthracene	0.0938	0.00247	"	0.164	85124	57.1	30-130	14	30	
Benzo(a)pyrene	0.0998	0.00234	"	0.164	0.00267	59.2	30-130	6.9	30	
Benzo(b)fluoranthene	0.0847	0.00293	"	0.164	85124	51.6	30-130	2.2	30	
Benzo(k)fluoranthene	0.0855	0.00219	"	0.164	85124	52.1	30-130	0.9	30	
Surrogate: 4-Terphenyl-d14	70.5		"	0.329	261	70.5	33-122			
Surrogate: 2-Fluorobiphenyl	60.7		"	0.329	230	60.7	33-115			
Surrogate: Nitrobenzene-d5	45.2		"	0.329	163	45.2	29-110			

<b>MS (L 85124-MS-L610198)</b>		<b>Source: 85124</b>			Prepared: 04/12/2022 Analyzed: 04/15/2022					
Chrysene	0.102	0.00312	mg/Kg	0.166	85124	61.4	30-130			
Benzo(k)fluoranthene	0.0863	0.00219	"	0.166	85124	51.9	30-130			
Naphthalene	0.0922	0.00242	"	0.166	85124	55.5	30-130			
Indeno(1,2,3-cd)pyrene	0.095	0.00314	"	0.166	0.00322	55.2	30-130			
Fluorene	0.102	0.00143	"	0.166	85124	61.4	30-130			
Fluoranthene	0.117	0.00197	"	0.166	85124	70.4	30-130			
Dibenz(a,h)anthracene	0.117	0.00307	"	0.166	85124	70.4	30-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L610198 - 3550B**

MS (L 85124-MS-L610198)	Source: 85124			Prepared: 04/12/2022 Analyzed: 04/15/2022						
Pyrene	0.116	0.00322	mg/Kg	0.166	85124	69.8	30-130			
1-Methylnaphthalene	0.104	0.00182	"	0.166	85124	62.6	30-130			
2-Methylnaphthalene	0.0953	0.00323	"	0.166	85124	57.4	30-130			
Acenaphthene	0.095	0.00152	"	0.166	85124	57.2	30-130			
Anthracene	0.108	0.00167	"	0.166	85124	65	30-130			
Benzo(a)anthracene	0.108	0.00247	"	0.166	85124	65	30-130			
Benzo(a)pyrene	0.107	0.00234	"	0.166	0.00267	62.8	30-130			
Benzo(b)fluoranthene	0.0828	0.00293	"	0.166	85124	49.8	30-130			
Surrogate: Nitrobenzene-d5	50.6		"	0.332	163	50.6	29-110			
Surrogate: 2-Fluorobiphenyl	66.2		"	0.332	230	66.2	33-115			
Surrogate: 4-Terphenyl-d14	78.6		"	0.332	261	78.6	33-122			

LCS (LCS-L610198)	Prepared: 04/12/2022 Analyzed: 04/15/2022									
Indeno(1,2,3-cd)pyrene	0.13	0.000627	mg/Kg	0.167		77.8	30-130			
Pyrene	0.112	0.000643	"	0.167		67	30-130			
1-Methylnaphthalene	0.0975	0.000364	"	0.167		58.3	30-130			
Naphthalene	0.0925	0.000484	"	0.167		55.3	30-130			
Fluorene	0.1	0.000286	"	0.167		59.8	30-130			
Anthracene	0.107	0.000334	"	0.167		64	30-130			
2-Methylnaphthalene	0.0954	0.000645	"	0.167		57.1	30-130			
Acenaphthene	0.0905	0.000304	"	0.167		54.1	30-130			
Fluoranthene	0.112	0.000394	"	0.167		67	30-130			
Benzo(a)anthracene	0.105	0.000493	"	0.167		62.8	30-130			
Benzo(a)pyrene	0.107	0.000468	"	0.167		64	30-130			
Benzo(b)fluoranthene	0.0991	0.000585	"	0.167		59.3	30-130			
Benzo(k)fluoranthene	0.0937	0.000437	"	0.167		56.1	30-130			
Chrysene	0.0974	0.000624	"	0.167		58.3	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L610198 - 3550B**

**LCS (LCS-L610198)**

Prepared: 04/12/2022 Analyzed: 04/15/2022

Dibenz(a,h)anthracene	0.135	0.000614	mg/Kg	0.167		80.8	30-130			
Surrogate: 2-Fluorobiphenyl	68.1		"	0.333		68.1	33-115			
Surrogate: Nitrobenzene-d5	50.7		"	0.333		50.7	29-110			
Surrogate: 4-Terphenyl-d14	80.4		"	0.333		80.4	33-122			

**LRB (LRB-L610198)**

Prepared: 04/12/2022 Analyzed: 04/15/2022

Fluorene	ND	0.00067	mg/Kg				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: Nitrobenzene-d5	45.9		"	0.333		45.9	29-110			
Surrogate: 2-Fluorobiphenyl	64.8		"	0.333		64.8	33-115			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**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 L611216 -</b>										
<b>DUP (L 85717-DUP)</b>		<b>Source: Y203800-05</b>			Prepared: Analyzed: 04/16/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		85717		-	0	20	
<b>MS (L 85717-MS)</b>		<b>Source: Y203800-05</b>			Prepared: Analyzed: 04/16/2022					
Chromium, Hexavalent	5.3	0.25	mg/Kg	8.23	85717	64	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 04/16/2022					
Chromium, Hexavalent	7.16	0.244	mg/Kg	8		90	75-125			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**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 L610159 - 3050B**

<b>MSD (L 85734-MSD-L610159)</b>		<b>Source: 85734</b>			Prepared: 04/11/2022 Analyzed: 04/15/2022					
Copper	9.84	0.0806	mg/Kg	2.42	6.95	119	75-125	3.5	80	
Zinc	59.9	0.534	"	24.2	33.8	108	75-125	2.7	80	
Silver	0.515	0.0067	"	0.484	0.0366	99	75-125	4.9	80	
Selenium	3.8	0.103	"	4.84	0.33	72	75-125	3.4	80	*
Lead	10.2	0.031	"	2.42	7.52	111	75-125	2.3	80	
Cadmium	0.632	0.0259	"	0.484	0.119	106	75-125	2.5	80	
Barium	85.9	0.042	"	4.84	78.3	157	75-125	3	80	*
Arsenic	3.47	0.0855	"	2.42	1.59	78	75-125	3.6	80	
Nickel	10.1	0.0633	"	2.42	7.7	99	75-125	7.6	80	

<b>MS (L 85734-MS-L610159)</b>		<b>Source: 85734</b>			Prepared: 04/11/2022 Analyzed: 04/15/2022					
Arsenic	3.6	0.0855	mg/Kg	2.45	1.59	82	75-125			
Zinc	61.6	0.534	"	24.5	33.8	113	75-125			
Silver	0.541	0.0067	"	0.491	0.0366	103	75-125			
Selenium	3.67	0.103	"	4.91	0.33	68	75-125			*
Nickel	10.9	0.0633	"	2.45	7.7	130	75-125			*
Lead	9.96	0.031	"	2.45	7.52	99	75-125			
Copper	10.2	0.0806	"	2.45	6.95	132	75-125			*
Cadmium	0.648	0.0259	"	0.491	0.119	108	75-125			
Barium	88.6	0.042	"	4.91	78.3	210	75-125			*

<b>LCS (LCS-L610159)</b>		Prepared: 04/11/2022 Analyzed: 04/15/2022								
Zinc	25.5	0.534	mg/Kg	25		102	80-120			
Lead	2.45	0.031	"	2.5		98	80-120			
Copper	2.64	0.0806	"	2.5		106	80-120			
Arsenic	2.61	0.0855	"	2.5		104	80-120			
Cadmium	0.517	0.0259	"	0.5		103	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 - Roth #12-30

**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 L610159 - 3050B**

**LCS (LCS-L610159)**

Prepared: 04/11/2022 Analyzed: 04/15/2022

Selenium	4.55	0.103	mg/Kg	5		91	80-120			
Barium	4.55	0.042	"	5		91	80-120			
Silver	0.489	0.0067	"	0.5		98	80-120			
Nickel	2.63	0.0633	"	2.5		105	80-120			

**LRB (LRB-L610159)**

Prepared: 04/11/2022 Analyzed: 04/15/2022

Silver	ND	0.25	mg/Kg				-			
Selenium	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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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**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 L611215 -</b>										
<b>DUP (L 85690-DUP)</b>		<b>Source: 85690</b>			Prepared: Analyzed: 04/16/2022					
Chromium, Hexavalent	ND	1.22	mg/Kg		85690		-	0	20	
<b>MS (L 85690-MS)</b>		<b>Source: 85690</b>			Prepared: Analyzed: 04/16/2022					
Chromium, Hexavalent	ND	1.22	mg/Kg	7.78	85690	0	75-125			*
<b>LRB (LRB)</b>		Prepared: Analyzed: 04/16/2022								
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 - Roth #12-30

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**Notes and Definitions**

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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April 28, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Roth #12-30

Project Number - [none]

Attached are your analytical results for Noble - Roth #12-30 received by Origins Laboratory, Inc. April 22, 2022. This project is associated with Origins project number Y204546-01.

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 - Roth #12-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y204546-01	Soil	March 30, 2022 11:33	04/22/2022 14:15

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 - Roth #12-30

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

**Sample Receipt Checklist**

Origins Work Order: Y204546 Client: Eagle  
 Client Project ID: Roth 12-30

Checklist Completed by: SG Shipped Via: HD  
 Date/time completed: 4/25/22 (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, 0.8 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 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 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) JB Date/Time Reviewed 4-26-22

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 - Roth #12-30

**Background-01@3'**  
**3/30/2022 11:33:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y204546-01 (Soil)**

**Total Metals by 6020B**

Arsenic	1.21	0.0855	0.25	mg/Kg	5	L612926	04/26/2022	04/27/2022	
Barium	31.6	0.042	0.25	"	"	"	"	"	
Lead	2.64	0.031	0.25	"	"	"	"	"	
Selenium	0.11	0.103	0.25	"	"	"	"	"	J

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Eagle Environmental Consulting, Inc.  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**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 L612926 - 3050B</b>										
<b>MSD (L 88590-MSD-L612926)</b>			<b>Source: 88590</b>			Prepared: 04/26/2022 Analyzed: 04/27/2022				
Barium	24.6	0.042	mg/Kg	4.79	18.7	123	75-125	43.8	80	
Lead	8.7	0.031	"	2.4	5.75	123	75-125	29.4	80	
Selenium	3.69	0.103	"	4.79	0.195	73	75-125	6.7	80	*
Arsenic	2.46	0.0855	"	2.4	0.696	74	75-125	5.9	80	*
<b>MS (L 88590-MS-L612926)</b>			<b>Source: 88590</b>			Prepared: 04/26/2022 Analyzed: 04/27/2022				
Selenium	3.45	0.103	mg/Kg	4.68	0.195	70	75-125			*
Arsenic	2.61	0.0855	"	2.34	0.696	82	75-125			
Barium	38.4	0.042	"	4.68	18.7	421	75-125			*
Lead	11.7	0.031	"	2.34	5.75	254	75-125			*
<b>LCS (LCS-L612926)</b>			Prepared: 04/26/2022 Analyzed: 04/27/2022							
Barium	4.73	0.042	mg/Kg	5		95	80-120			
Lead	2.32	0.031	"	2.5		93	80-120			
Selenium	4.37	0.103	"	5		87	80-120			
Arsenic	2.24	0.0855	"	2.5		90	80-120			
<b>LRB (LRB-L612926)</b>			Prepared: 04/26/2022 Analyzed: 04/27/2022							
Selenium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	0.0725	0.25	"				-			J
Lead	ND	0.25	"				-			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Roth #12-30

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**Notes and Definitions**

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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