



8000 W 44<sup>th</sup> Ave, Wheat Ridge, CO 80033 • Phone: 303-433-0479 • Fax: 303-325-5449 • [www.eagle-enviro.com](http://www.eagle-enviro.com)

March 29, 2023

Mr. Dan Peterson  
Noble Energy, Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, Colorado 80631

**Subsurface Assessment Summary**  
**UPRC T4N-R67W-S23 Tank Battery**  
**Historical Release**  
**40.304673 / -104.867302**  
**NE¼ NW¼ SEC.23 T4N R67W 6PM**  
**Weld County, Colorado**  
**Location ID 329775**  
**Remediation # 22738**

Dear Mr. Peterson,

Eagle Environmental Consulting, LLC (EAGLE) is pleased to present this Subsurface Assessment Summary for the UPRC T4N-R67W-S23 Tank Battery (site).

## **1.0 BACKGROUND**

On June 9, 2022, EAGLE collected soil samples at the UPRC T4N-R67W-S23 site following tank battery decommissioning activities. During the assessment, petroleum hydrocarbon staining and odor were not observed. Photoionization detector readings are summarized in Table 1. Based on soil analytical results, soil sample WV-FS-01@6' contained concentrations of Total Petroleum Hydrocarbons (TPH) and 1-methylnaphthalene exceeding their respective Colorado Oil and Gas Conservation Commission (COGCC) Table 915-1 regulatory limits. Historical soil analytical results are summarized in Table 2 and Table 3.

A Form 19 was submitted to the COGCC on June 27, 2022, and Spill/Release Point ID No. 482464 was subsequently issued for this event. Decommissioning activities and results of the initial investigation were reported in the Closure Assessment Summary submitted to COGCC on October 19, 2022.

## **2.0 LIMITED CONCEPTUAL SITE MODEL (CSM)**

The following narrative provides a limited CSM for the overall site.

### **2.1 Site Background and Land Use**

The former UPRC T4N-R67W-S23 site is located within the northeast quarter of the northwest quarter of Section 23, Township 4 North, Range 67 West, of the 6<sup>th</sup> Prime Meridian, in Weld County, Colorado. The historical release location identified during the initial assessment was located at latitude: 40.304673 and longitude: -104.867302. The site is located adjacent to crop to the east, south, and west, and pasture/ranch land to the north. A topographic site location map is presented in Figure 1. An aerial site location map is presented in Figure 2.



## **2.2 Site Specific and Regional Lithology/Hydrogeology**

The soil lithology observed beneath the site consists of clayey sand from the ground surface to approximately 11 feet below ground surface (bgs) and silty sand from approximately 11 feet bgs to 20 feet bgs. Surface topography is generally undulated, with an overall dip to the northwest.

The nearest water well registered with the Colorado Division of Water Resources is Permit #93108, and is permitted for domestic purposes. Groundwater has not been observed during subsurface assessment activities, however, a bore was completed as a temporary 1-inch monitoring well to 20 feet bgs to confirm the absence of groundwater at the site. Soil boring logs / well completion diagrams are included in Attachment A.

## **2.3 Historical Release and Magnitude of Impacts**

On May 26, 2023, EAGLE advanced five (5) soil borings (SB-01 through SB-05) at the site to delineate impacted media identified during the initial assessment and to determine the applicability of COGCC Table 915-1 Protection of Groundwater Soil Screening Levels (GSSLs) at the site. A reduced sampling analysis plan including Total Petroleum Hydrocarbons (TPH – C6-36) and Table 915-1 organics in soil was approved by a Supplemental Form 27 (Document No. 403202600).

### **2.3.1 Soil Impacts**

Soil sample WV-FS-01@6', collected during the facility decommissioning assessment contained TPH exceeding the COGCC Table 915-1 regulatory limit, and 1-methylnaphthalene exceeding the COGCC Table 915-1 GSSL, only. Soil samples collected from SB-01 through SB-05 did not contain concentrations of TPH or COGCC Table 915-1 organics exceeding applicable regulatory limits. Soil boring soil analytical results are presented in Figure 3 and Figure 4, and summarized in Table 2 and Table 3. The laboratory analytical report is included in Attachment B.

Previously identified soil impacts have been vertically and laterally defined. COGCC Table 915-1 regulatory limits do not appear applicable, therefore, residual TPH remains at the site.



## 2.4 Remedial Strategy and Recommendations

Based on the information presented in this report, EAGLE recommends the following:

- Complete limited source excavation activities to remove historical impacts identified in WV-FS-01.

EAGLE sincerely appreciates the opportunity to provide our services. If you have any questions or require further information, please contact us at (303) 433-0479.

Sincerely,

***EAGLE ENVIRONMENTAL CONSULTING, INC.***

A handwritten signature in blue ink, appearing to read "Grace Congdon".

Grace Congdon  
Project Geologist

A handwritten signature in blue ink, appearing to read "Andrew Newberry".

Andrew Newberry  
Senior Project Geologist

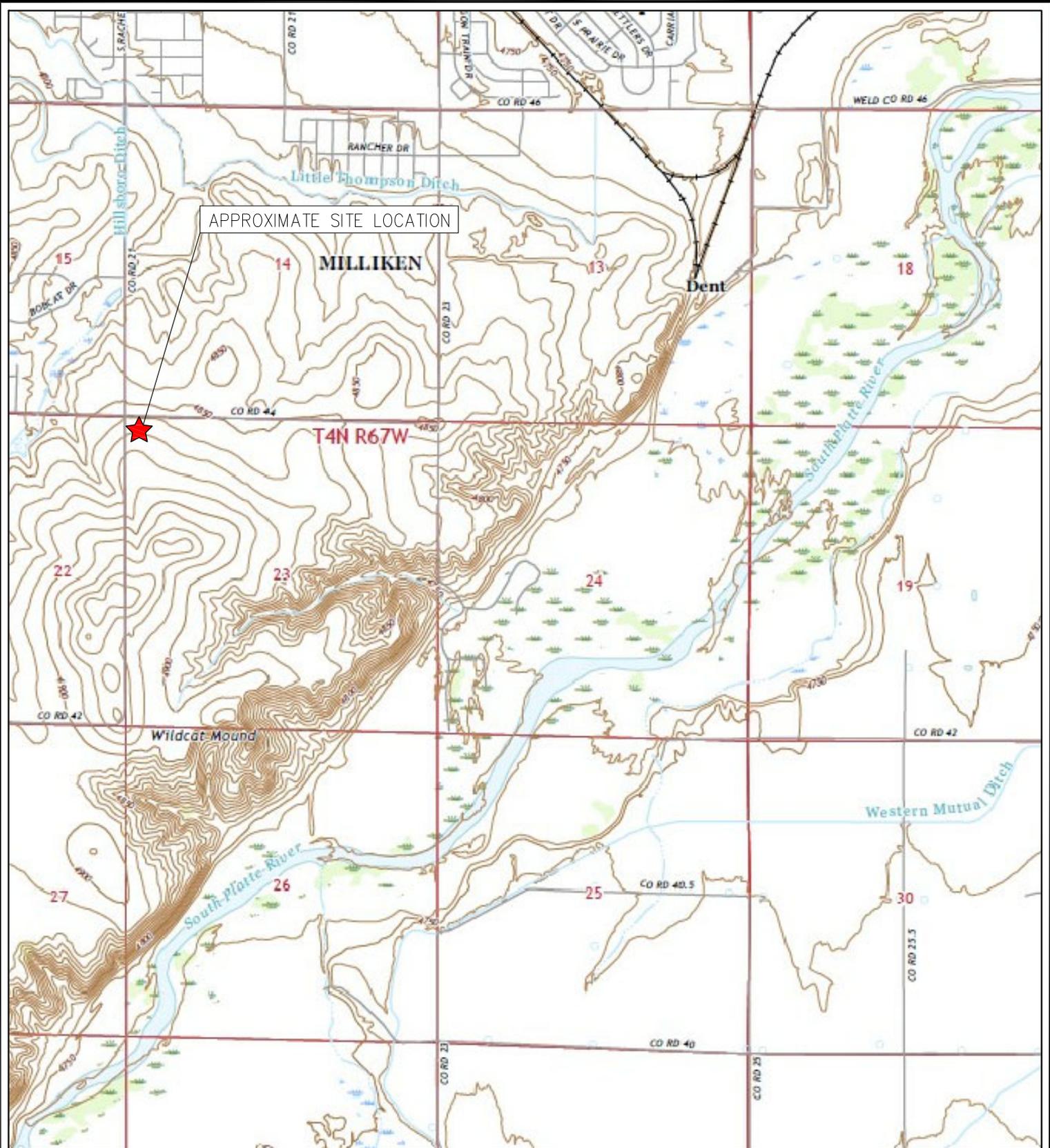
## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Boring Soil Analytical Map**

**Figure 4: Soil Boring Polycyclic Aromatic Hydrocarbons in Soil Map**



APPROXIMATE SITE LOCATION

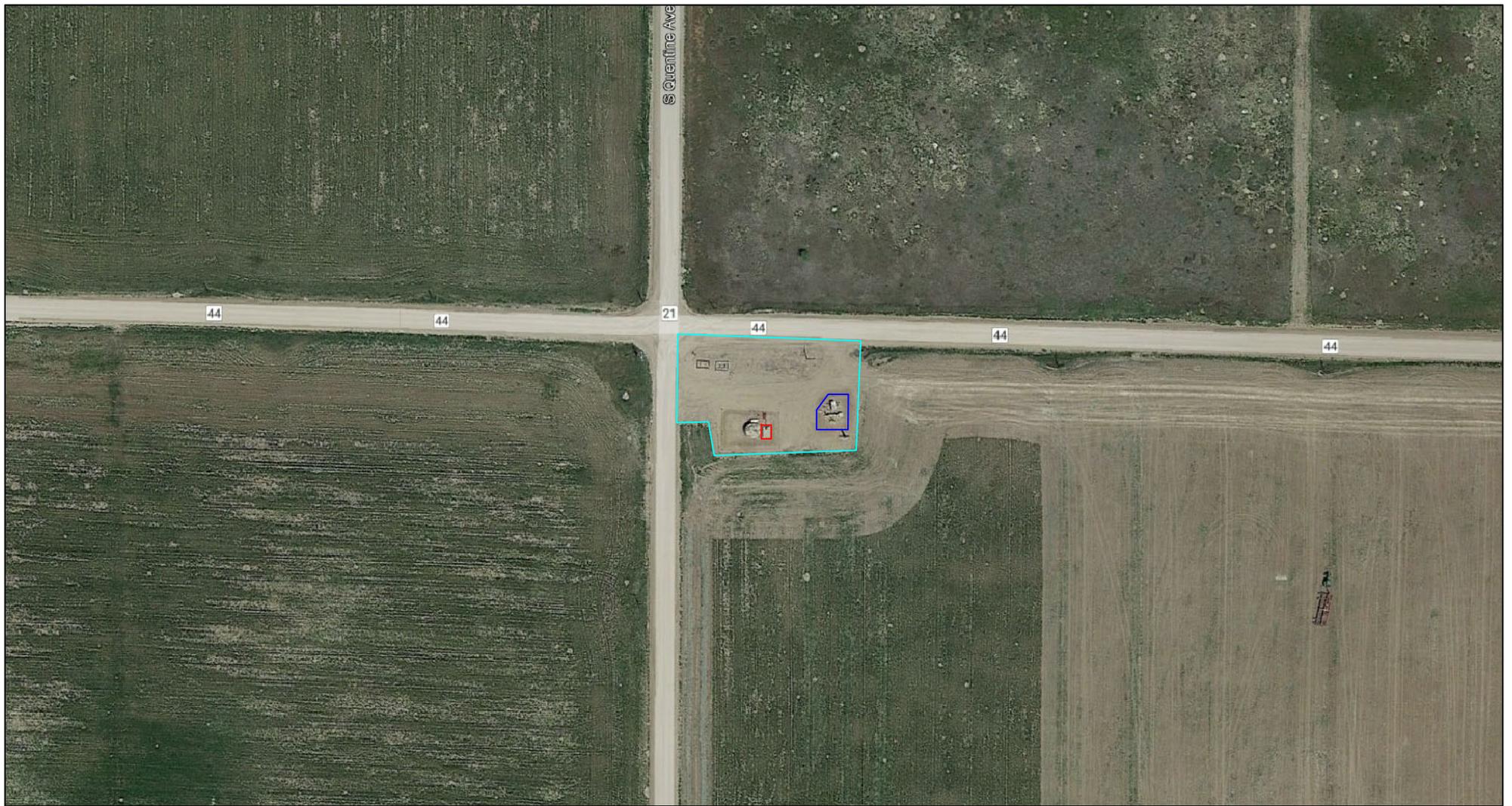


TOPOGRAPHIC SITE LOCATION MAP  
 UPRC T4N-R67W-S23 TANK BATTERY  
 HISTORICAL RELEASE  
 40.304673 / -104.867302  
 NE1/4 NW1/4 SEC.23 T4N R67W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 329775  
 REMEDIATION # 22738



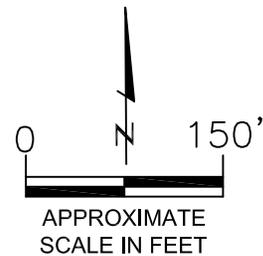
**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

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**LEGEND**

- FORMER UPRC T4N-R67W-S23 TANK BATTERY (DECOMMISSIONED)
- APPROXIMATE WATER VAULT LOCATION (REMOVED)
- SEPARATOR CONTAINMENT AREA (DECOMMISSIONED)



**AERIAL SITE LOCATION MAP**  
 UPRC T4N-R67W-S23 TANK BATTERY  
 HISTORICAL RELEASE  
 40.304673 / -104.867302  
 NE1/4 NW1/4 SEC.23 T4N R67W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 329775  
 REMEDIATION # 22738

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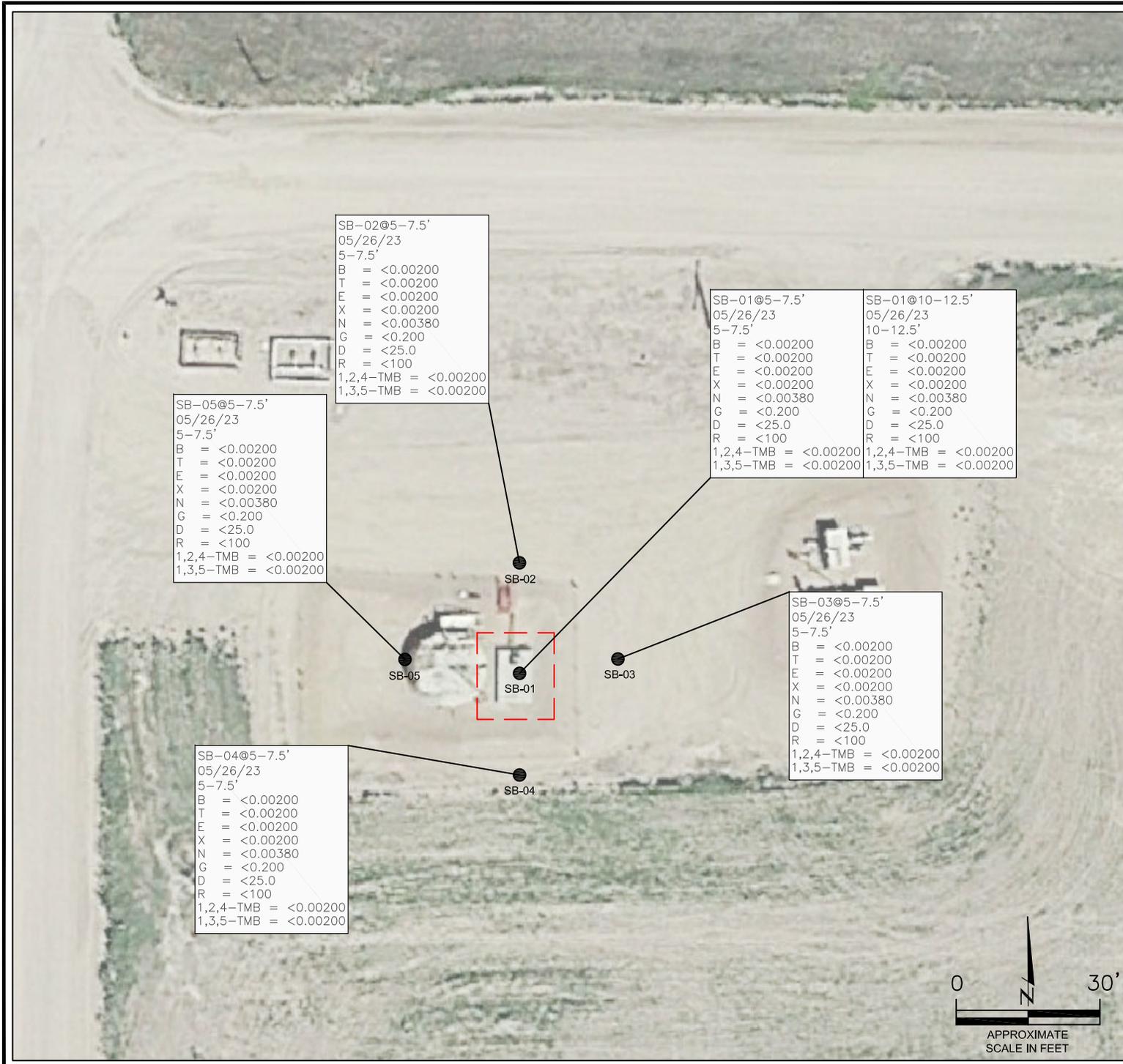
FIG. NO.  
2



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**LEGEND**

- WATER VAULT 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)
N = NAPHTHALENE (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)

mg/kg = MILLIGRAMS PER KILOGRAM

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.

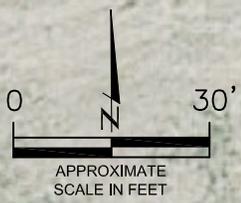
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

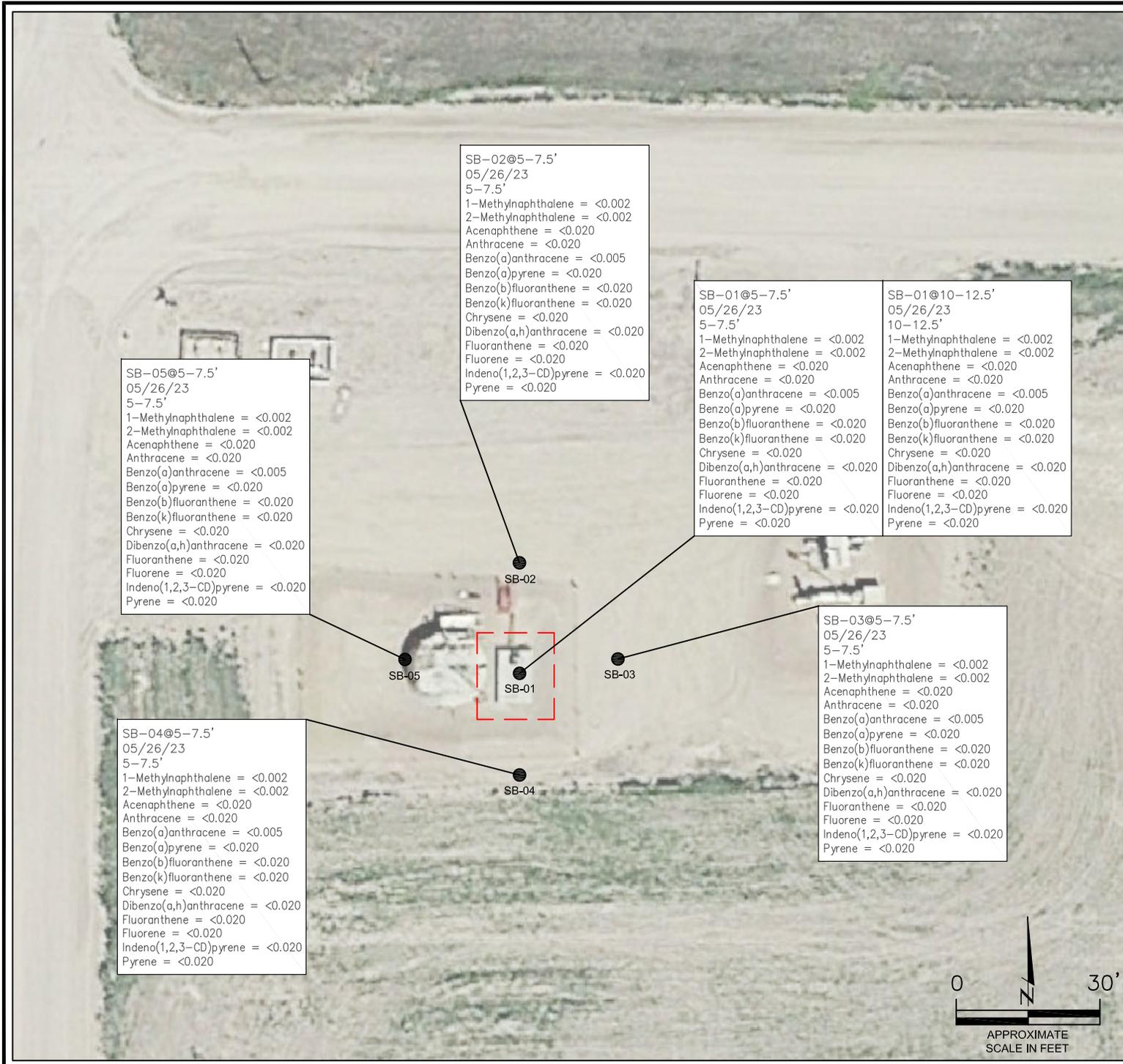
**SOIL BORING SOIL ANALYTICAL MAP**  
 UPRC T4N-R67W-S23 TANK BATTERY  
 HISTORICAL RELEASE  
 40.304673 / -104.867302  
 NE1/4 NW1/4 SEC.23 T4N R67W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 329775  
 REMEDIATION # 22738

FIGURE NO.  
3

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**LEGEND**

- WATER VAULT ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**SB-05@5-7.5'**  
 05/26/23  
 5-7.5'  
 1-Methylnaphthalene = <0.002  
 2-Methylnaphthalene = <0.002  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020

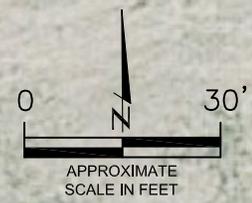
**SB-02@5-7.5'**  
 05/26/23  
 5-7.5'  
 1-Methylnaphthalene = <0.002  
 2-Methylnaphthalene = <0.002  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020

**SB-01@5-7.5'**  
 05/26/23  
 5-7.5'  
 1-Methylnaphthalene = <0.002  
 2-Methylnaphthalene = <0.002  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020

**SB-01@10-12.5'**  
 05/26/23  
 10-12.5'  
 1-Methylnaphthalene = <0.002  
 2-Methylnaphthalene = <0.002  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020

**SB-03@5-7.5'**  
 05/26/23  
 5-7.5'  
 1-Methylnaphthalene = <0.002  
 2-Methylnaphthalene = <0.002  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020

**SB-04@5-7.5'**  
 05/26/23  
 5-7.5'  
 1-Methylnaphthalene = <0.002  
 2-Methylnaphthalene = <0.002  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020



SOIL BORING POLYCYCLIC AROMATIC HYDROCARBONS MAP  
 UPRC T4N-R67W-S23 TANK BATTERY  
 HISTORICAL RELEASE  
 40.304673 / -104.867302  
 NE1/4 NW1/4 SEC.23 T4N R67W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 329775  
 REMEDIATION # 22738

FIGURE NO.  
 4  
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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**  
**UPRC T4N-R67W-S23 TANK BATTERY**  
**HISTORICAL RELEASE**  
**40.304673 / -104.867302**  
**NE1/4 NW1/4 SEC.23 T4N R67W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 329775**  
**REMEDIAION # 22738**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WV-SS-01 @ 5' (40.304699 / -104.867302)	06/09/22	5	1.8	N
WV-SS-02 @ 5' (40.304674 / -104.867270)	06/09/22	5	2.2	N
WV-SS-03 @ 5' (40.304649 / -104.867302)	06/09/22	5	2.4	Y
WV-SS-04 @ 5' (40.304677 / -104.867328)	06/09/22	5	1.1	N
WV-FS-01 @ 6' (40.304676 / -104.867301)	06/09/22	6	1.4	Y
TB-SS-01 @ 1' (40.304680 / -104.867349)	06/09/22	1	1.5	Y
TB-SS-02 @ 3' (40.304720 / -104.867080)	06/09/22	3	2.4	Y
TB-SS-03 @ 3' (40.304721 / -104.867033)	06/09/22	3	2.0	N
TB-SS-04 @ 1' (40.304752 / -104.867039)	06/09/22	1	1.9	N
TB-SS-05 @ 0.5' (40.304663 / -104.867018)	06/09/22	0.5	1.8	N
Background-01 @ 4' (40.304883 / -104.866929)	06/09/22	4	1.6	Y
SB-01 @ 5-7.5 (40.304669 / -104.867301)	05/26/23	5-7.5	5.2	Y
SB-01 @ 10-12.5' (40.304669 / -104.867301)	05/26/23	10-12.5	7.2	Y
SB-02 @ 5-7.5' (40.304727 / -104.867299)	05/26/23	5-7.5	3.5	Y
SB-02 @ 7.5-10' (40.304727 / -104.867299)	05/26/23	7.5-10	2.6	N
SB-03 @ 5-7.5' (40.304672 / -104.867249)	05/26/23	5-7.5	3.1	Y
SB-03 @ 7.5-10' (40.304672 / -104.867249)	05/26/23	7.5-10	1.3	N
SB-04 @ 5-7.5' (40.304609 / -104.867307)	05/26/23	5-7.5	3.8	Y
SB-04 @ 7.5-10' (40.304609 / -104.867307)	05/26/23	7.5-10	1.8	N
SB-05 @ 5-7.5' (40.304676 / -104.867384)	05/26/23	5-7.5	5.8	Y
SB-05 @ 7.5-10' (40.304676 / -104.867384)	05/26/23	7.5-10	3.7	N
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
UPRC T4N-R67W-S23 TANK BATTERY  
HISTORICAL RELEASE  
40.304673 / -104.867302  
NE1/4 NW1/4 SEC.23 T4N R67W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 329775  
REMEDIAION # 22738

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>				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
WV-SS-03 @ 5' (40.304649 / -104.867302)	06/09/22	5	2.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.139	0.202	8.41	0.113
WV-FS-01 @ 6' (40.304676 / -104.867301)	06/09/22	6	1.4	<0.00200	<0.00200	<0.00200	<0.00200	<b>0.725</b>	<b>339</b>	<b>165</b>	<0.00200	<0.00200	0.199	0.293	<b>8.35</b>	0.448
TB-SS-01 @ 1' (40.304680 / -104.867349)	06/09/22	1	1.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.119	0.261	8.12	0.0728
TB-SS-02 @ 3' (40.304720 / -104.867080)	06/09/22	3	2.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.217	0.369	8.27	0.176
Background-01 @ 4' (40.304883 / -104.866929)	06/09/22	4	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.15	NA
SB-01 @ 5-7.5' (40.304669 / -104.867301)	05/26/23	5-7.5	5.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
SB-01 @ 10-12.5' (40.304669 / -104.867301)	05/26/23	10-12.5	7.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
SB-02 @ 5-7.5' (40.304727 / -104.867299)	05/26/23	5-7.5	3.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
SB-03 @ 5-7.5' (40.304672 / -104.867249)	05/26/23	5-7.5	3.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
SB-04 @ 5-7.5' (40.304609 / -104.867307)	05/26/23	5-7.5	3.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
SB-05 @ 5-7.5' (40.304676 / -104.867384)	05/26/23	5-7.5	5.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
<p>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 (&lt;) did not contain concentrations at or above the laboratory reporting limit.  Note: Values presented in <b>BOLD</b> exceed COGCC Table 915-1 Regulatory Limits.</p>																

TABLE 3  
PAH ANALYTICAL RESULTS SUMMARY  
UPRC T4N-R67W-S23 TANK BATTERY  
HISTORICAL RELEASE  
40.304673 / -104.867302  
NE1/4 NW1/4 SEC.23 T4N R67W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 329775  
REMEDATION # 22738

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>				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				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
WV-SS-03 @ 5' (40.304649 / -104.867302)	06/09/22	5	2.4	<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
WV-FS-01 @ 6' (40.304676 / -104.867301)	06/09/22	6	1.4	<b>0.00723*</b>	0.00695	0.0162	<0.00067	0.00194	<0.00067	0.00271	<0.00067	0.0066	<0.00067	0.00106	0.0318	<0.00067	0.000586	0.00576
TB-SS-01 @ 1' (40.304680 / -104.867349)	06/09/22	1	1.5	<0.00067	<0.00067	<0.00067	<0.00067	0.000668	0.00105	0.00152	0.000822	0.00105	<0.00067	0.00255	<0.00067	0.000985	<0.00067	0.00237
TB-SS-02 @ 3' (40.304720 / -104.867080)	06/09/22	3	2.4	<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
SB-01 @ 5-7.5' (40.304669 / -104.867301)	05/26/23	5-7.5	5.2	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00380	<0.020
SB-01 @ 10-12.5' (40.304669 / -104.867301)	05/26/23	10-12.5	7.2	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00380	<0.020
SB-02 @ 5-7.5' (40.304727 / -104.867299)	05/26/23	5-7.5	3.5	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00380	<0.020
SB-03 @ 5-7.5' (40.304672 / -104.867249)	05/26/23	5-7.5	3.1	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00380	<0.020
SB-04 @ 5-7.5' (40.304669 / -104.867307)	05/26/23	5-7.5	3.8	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00380	<0.020
SB-05 @ 5-7.5' (40.304676 / -104.867384)	05/26/23	5-7.5	5.8	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00380	<0.020

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. Values presented with an asterisk (\*) exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels.



**ATTACHMENT A**

**Soil Boring Logs / Well Completion Diagram**

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-11') clayey SAND - brown, dry, loose, fine grained, poorly-graded with ~15-20% clay, N/O, N/S	SC	DP	1	80	4.1	N/A			
4.0										
5			DP	2	80	5.2	N/A			
4.7										
10	(11-20') silty SAND - light brown, dry, loose, fine grained, poorly-graded with ~30% silt, N/O, N/S	SM	DP	3	80	7.2	N/A			
15						3.1				
20	BoB @ 20'		DP	4	80	2.2	N/A			
20						1.7				

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

START/COMPLETION DATE: 05/26/23		SAND PACK INTERVAL (FEET): 4-20	
PROJECT: UPRC T4N-R67W-S23 TANK BATTERY		BENTONITE/GROUT INTERVAL (FEET): 0-4	
LOGGED BY: E. LOVELL		WELL SCREEN INTERVAL (FEET): 5-20	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): 20	<p><b>EAGLE</b>                  ENVIRONMENTAL                  CONSULTING, LLC</p> 8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 0930/0950			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/0939, 10-12.5/0942			

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-8') clayey SAND - brown, dry, loose, fine grained, poorly-graded with ~15-20% clay, N/O, N/S	SC	DP	1	100	1.4	N/A	5	WELL NOT COMPLETED	
2.6										
5		SM	DP	2	90	3.5	N/A	10		
2.6										
10	BoB @ 10'									
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/26/23	SAND PACK INTERVAL (FEET): N/A
PROJECT: UPRC T4N-R67W-S23 TANK BATTERY	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #6	 <p><b>EAGLE</b>                  ENVIRONMENTAL                  CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033                  Ph: 303-433-0479 • F: 303-325-5449</p>
TIME STARTED/COMPLETED: 1020/1030	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1025	

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-9') clayey SAND - brown, dry, loose-medium dense, fine grained, poorly-graded with ~20-30% clay, N/O, N/S	SC	DP	1	100	2.6	N/A	WELL NOT COMPLETED		
5						2.2				
10			SM	DP	2	80	3.1			N/A
							1.3			
10	BoB @ 10'									
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/26/23		SAND PACK INTERVAL (FEET): N/A	
PROJECT: UPRC T4N-R67W-S23 TANK BATTERY		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A	 <p><b>EAGLE</b>                  ENVIRONMENTAL                  CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033                  Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 1010/1020			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1015			

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6') clayey SAND - brown, dry, loose, fine grained, poorly-graded with ~15-20% clay, N/O, N/S	SC	DP	1	100	2.2	N/A	-	WELL NOT COMPLETED	
5						2.6				
6		SM	DP	2	90	3.8	N/A	-		
10						1.8				
10	BoB @ 10'									
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/26/23		SAND PACK INTERVAL (FEET): N/A	
PROJECT: UPRC T4N-R67W-S23 TANK BATTERY		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A	 <p><b>EAGLE</b>                  ENVIRONMENTAL                  CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033                  Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #6			
TIME STARTED/COMPLETED: 1000/1010			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1006			

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-8') clayey SAND - brown, dry, loose, fine grained, poorly-graded with ~15-20% clay, N/O, N/S	SC	DP	1	90	3.6	N/A	WELL NOT COMPLETED		
5						4.5				
8		SM	DP	2	90	5.8	N/A			
10						3.7				
10	BoB @ 10'									
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/26/23	SAND PACK INTERVAL (FEET): N/A
PROJECT: UPRC T4N-R67W-S23 TANK BATTERY	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #6	 <p><b>EAGLE</b>                  ENVIRONMENTAL                  CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033                  Ph: 303-433-0479 • F: 303-325-5449</p>
TIME STARTED/COMPLETED: 0952/1000	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/0956	

**ATTACHMENT B**

**Laboratory Analytical Report**

June 08, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - UPRC T4N-R67W-S23 Tank Battery Project Number - [none]**

Attached are your analytical results for Noble - UPRC T4N-R67W-S23 Tank Battery received by Origins Laboratory, Inc. May 26, 2023. This project is associated with Origins project number Y305714-01.

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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - UPRC T4N-R67W-S23 Tank  
Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@5-7.5'	Y305714-01	Soil	May 26, 2023 9:39	05/26/2023 12:46
SB-01@10-12.5'	Y305714-02	Soil	May 26, 2023 9:42	05/26/2023 12:46
SB-02@5-7.5'	Y305714-03	Soil	May 26, 2023 10:25	05/26/2023 12:46
SB-03@5-7.5'	Y305714-04	Soil	May 26, 2023 10:15	05/26/2023 12:46
SB-04@5-7.5'	Y305714-05	Soil	May 26, 2023 10:06	05/26/2023 12:46
SB-05@5-7.5'	Y305714-06	Soil	May 26, 2023 9:56	05/26/2023 12:46

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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank Battery

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: UB05714 Client: Eagle  
 Client Project ID: UPRC T4N-R67W-S23 TB  
 Checklist Completed by: JMREHS Shipped Via: TD  
 Date/time completed: 5/20/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: na  
 Matrix(s) Received: (Check all that apply):  Soil/Solid \_\_\_\_\_ Water \_\_\_\_\_ Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 B °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: 7004

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> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			/	
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)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed \_\_\_\_\_

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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank Battery

**SB-01@5-7.5'**  
**5/26/2023 9:39:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3019	ZZZ	05/30/2023	06/02/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 74.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3027	ZZZ	05/30/2023	05/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "  
 Surrogate: Toluene-d8 105 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
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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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**SB-01@5-7.5'**

**5/26/2023 9:39:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-01 (Soil)**

**PAH by EPA 8270E**

2-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	101 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	100 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	105 %	60-130			"	"	"	"	

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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank Battery

**SB-01@10-12.5'**  
**5/26/2023 9:42:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3019	ZZZ	05/30/2023	06/02/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 70.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3027	ZZZ	05/30/2023	05/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
 Surrogate: Toluene-d8 103 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
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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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**SB-01@10-12.5'**  
**5/26/2023 9:42:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-02 (Soil)**

**PAH by EPA 8270E**

2-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	100 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	99.8 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	103 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank Battery

**SB-02@5-7.5'**

**5/26/2023 10:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3019	ZZZ	05/30/2023	06/02/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 56.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3027	ZZZ	05/30/2023	05/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "  
 Surrogate: Toluene-d8 106 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 99.1 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**SB-02@5-7.5'**

**5/26/2023 10:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-03 (Soil)**

**PAH by EPA 8270E**

2-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	101 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	101 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	98.3 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank Battery

**SB-03@5-7.5'**

**5/26/2023 10:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3019	ZZZ	05/30/2023	06/02/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 68.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3027	ZZZ	05/30/2023	05/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
 Surrogate: Toluene-d8 105 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank Battery

SB-03@5-7.5'

5/26/2023 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y305714-04 (Soil)

**PAH by EPA 8270E**

2-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	102 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	103 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	98.6 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**SB-04@5-7.5'**

**5/26/2023 10:06:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3019	ZZZ	05/30/2023	06/02/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 51.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3027	ZZZ	05/30/2023	05/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
 Surrogate: Toluene-d8 100 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**SB-04@5-7.5'**

**5/26/2023 10:06:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-05 (Soil)**

**PAH by EPA 8270E**

2-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	103 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	100 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	106 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank Battery

**SB-05@5-7.5'**

**5/26/2023 9:56:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-06 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3019	ZZZ	05/30/2023	06/02/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 73.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3027	ZZZ	05/30/2023	05/30/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
 Surrogate: Toluene-d8 106 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**SB-05@5-7.5'**

**5/26/2023 9:56:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305714-06 (Soil)**

**PAH by EPA 8270E**

2-Methylnaphthalene	ND	0.002	mg/kg	1	B3E2624	agile	05/26/2023	05/31/2023	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Nitrobenzene-d5	102 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	98.3 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	104 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**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 B3E3019 - EPA 3550B</b>										
<b>Blank (B3E3019-BLK1)</b>										
					Prepared: 05/30/2023 Analyzed: 06/02/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		75.6	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**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 B3E3019 - EPA 3550B**

**LCS (B3E3019-BS1)**

Prepared: 05/30/2023 Analyzed: 06/02/2023

Diesel (C10-C28)	849	50.0	mg/kg	1000		84.9	70-130			
Residual Range Organics (C28-C40)	858	200	"	1000		85.8	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.0	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**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 B3E3019 - EPA 3550B**

<b>Matrix Spike (B3E3019-MS1)</b>	<b>Source: Y305697-01</b>			<b>Prepared: 05/30/2023 Analyzed: 06/02/2023</b>						
Diesel (C10-C28)	887	50.0	mg/kg	1000	ND	88.7	70-130			
Residual Range Organics (C28-C40)	909	200	"	1000	ND	90.9	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.6	50-150			

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**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 B3E3019 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3E3019-MSD1)</b>					<b>Source: Y305697-01</b>					Prepared: 05/30/2023 Analyzed: 06/02/2023
Diesel (C10-C28)	862	50.0	mg/kg	1000	ND	86.2	70-130	2.83	35	
Residual Range Organics (C28-C40)	899	200	"	1000	ND	89.9	70-130	1.17	35	
Surrogate: o-Terphenyl	44		"	49.8		87.5	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**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 B3E3027 - EPA 5030 (soil)**

**Blank (B3E3027-BLK1)**

Prepared: 05/30/2023 Analyzed: 05/30/2023

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	0.12		"	0.125	99.7		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	108		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	109		70-130			

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**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 B3E3027 - EPA 5030 (soil)

**LCS (B3E3027-BS1)**

Prepared: 05/30/2023 Analyzed: 05/30/2023

1,2,4-Trimethylbenzene	0.0885	0.00200	mg/kg	0.100		88.5	70-130			
1,3,5-Trimethylbenzene	0.0896	0.00200	"	0.100		89.6	70-130			
Benzene	0.0947	0.00200	"	0.100		94.7	70-130			
Ethylbenzene	0.0995	0.00200	"	0.100		99.5	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.0898	0.00200	"	0.100		89.8	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**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 B3E3027 - EPA 5030 (soil)

Matrix Spike (B3E3027-MS1)	Source: Y305714-01	Prepared: 05/30/2023	Analyzed: 05/30/2023						
1,2,4-Trimethylbenzene	0.149	0.00200	mg/kg	0.100	ND	149	70-130		QM-07
1,3,5-Trimethylbenzene	0.148	0.00200	"	0.100	ND	148	70-130		QM-07
Benzene	0.113	0.00200	"	0.100	ND	113	70-130		
Ethylbenzene	0.132	0.00200	"	0.100	ND	132	70-130		QM-07
Naphthalene	0.135	0.00380	"	0.100	ND	135	70-130		QM-07
Toluene	0.126	0.00200	"	0.100	ND	126	70-130		
o-Xylene	0.133	0.00200	"	0.100	ND	133	70-130		QM-07
m,p-Xylene	0.293	0.00400	"	0.200	ND	146	70-130		QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130		
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130		
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130		

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**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 B3E3027 - EPA 5030 (soil)

Matrix Spike Dup (B3E3027-MSD1)	Source: Y305714-01	Prepared: 05/30/2023	Analyzed: 05/30/2023							
1,2,4-Trimethylbenzene	0.143	0.00200	mg/kg	0.100	ND	143	70-130	3.75	20	QM-07
1,3,5-Trimethylbenzene	0.141	0.00200	"	0.100	ND	141	70-130	4.38	20	QM-07
Benzene	0.109	0.00200	"	0.100	ND	109	70-130	3.34	20	
Ethylbenzene	0.130	0.00200	"	0.100	ND	130	70-130	1.22	20	
Naphthalene	0.139	0.00380	"	0.100	ND	139	70-130	2.78	20	QM-07
Toluene	0.122	0.00200	"	0.100	ND	122	70-130	3.25	20	
o-Xylene	0.129	0.00200	"	0.100	ND	129	70-130	3.20	20	
m,p-Xylene	0.285	0.00400	"	0.200	ND	143	70-130	2.60	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank  
 Battery

**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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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3E2624 - EPA 3580**

**Blank (B3E2624-BLK1)**

Prepared: 05/26/2023 Analyzed: 05/30/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Nitrobenzene-d5	200		ug/kg	200		99.3	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		100	60-130			
Surrogate: Terphenyl-d14	200		"	200		102	60-130			

**LCS (B3E2624-BS1)**

Prepared: 05/26/2023 Analyzed: 05/30/2023

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank Battery

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3E2624 - EPA 3580**

**LCS (B3E2624-BS1)**

Prepared: 05/26/2023 Analyzed: 05/30/2023

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200		89.7	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200		93.9	70-130			
Acenaphthene	0.186	0.020	"	0.200		92.9	70-130			
Anthracene	0.198	0.020	"	0.200		99.0	70-130			
Benzo (a) anthracene	0.192	0.005	"	0.200		96.2	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200		96.1	70-130			
Benzo (b) fluoranthene	0.194	0.020	"	0.200		96.8	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200		98.3	70-130			
Benzo (k) fluoranthene	0.193	0.020	"	0.200		96.7	70-130			
Chrysene	0.195	0.020	"	0.200		97.6	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200		97.9	70-130			
Fluoranthene	0.203	0.020	"	0.200		101	70-130			
Fluorene	0.190	0.020	"	0.200		95.0	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200		96.9	70-130			
Naphthalene	0.196	0.002	"	0.200		97.9	70-130			
Phenanthrene	0.187	0.020	"	0.200		93.3	70-130			
Pyrene	0.197	0.020	"	0.200		98.4	70-130			
Surrogate: Nitrobenzene-d5	200		ug/kg	200		99.8	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		101	60-130			
Surrogate: Terphenyl-d14	200		"	200		99.7	60-130			

**Matrix Spike (B3E2624-MS1)**

Source: Y305706-01

Prepared: 05/26/2023 Analyzed: 05/31/2023

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	ND	92.7	70-130			
2-Methylnaphthalene	0.192	0.002	"	0.200	ND	95.8	70-130			
Acenaphthene	0.187	0.020	"	0.200	ND	93.6	70-130			
Anthracene	0.201	0.020	"	0.200	ND	101	70-130			
Benzo (a) anthracene	0.203	0.005	"	0.200	ND	102	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - UPRC T4N-R67W-S23 Tank Battery

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3E2624 - EPA 3580**

<b>Matrix Spike (B3E2624-MS1)</b>		<b>Source: Y305706-01</b>			Prepared: 05/26/2023 Analyzed: 05/31/2023					
Benzo (a) pyrene	0.193	0.020	mg/kg	0.200	ND	96.4	70-130			
Benzo (b) fluoranthene	0.187	0.020	"	0.200	ND	93.6	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.5	70-130			
Benzo (k) fluoranthene	0.195	0.020	"	0.200	ND	97.5	70-130			
Chrysene	0.195	0.020	"	0.200	ND	97.7	70-130			
Dibenz (a,h) anthracene	0.201	0.020	"	0.200	ND	100	70-130			
Fluoranthene	0.197	0.020	"	0.200	ND	98.4	70-130			
Fluorene	0.187	0.020	"	0.200	ND	93.3	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200	ND	97.2	70-130			
Naphthalene	0.199	0.002	"	0.200	ND	99.7	70-130			
Phenanthrene	0.188	0.020	"	0.200	ND	93.9	70-130			
Pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Surrogate: Nitrobenzene-d5	200		ug/kg	200		101	60-130			
Surrogate: 2-Fluorobiphenyl	210		"	200		103	60-130			
Surrogate: Terphenyl-d14	210		"	200		106	60-130			

<b>Matrix Spike Dup (B3E2624-MSD1)</b>		<b>Source: Y305706-01</b>			Prepared: 05/26/2023 Analyzed: 05/31/2023					
1-Methylnaphthalene	0.191	0.002	mg/kg	0.200	ND	95.6	70-130	3.06	20	
2-Methylnaphthalene	0.195	0.002	"	0.200	ND	97.7	70-130	1.99	20	
Acenaphthene	0.191	0.020	"	0.200	ND	95.4	70-130	1.89	20	
Anthracene	0.194	0.020	"	0.200	ND	96.9	70-130	3.75	20	
Benzo (a) anthracene	0.200	0.005	"	0.200	ND	100	70-130	1.65	20	
Benzo (a) pyrene	0.204	0.020	"	0.200	ND	102	70-130	5.44	20	
Benzo (b) fluoranthene	0.195	0.020	"	0.200	ND	97.7	70-130	4.28	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	ND	104	70-130	8.02	20	
Benzo (k) fluoranthene	0.215	0.020	"	0.200	ND	107	70-130	9.70	20	
Chrysene	0.198	0.020	"	0.200	ND	99.1	70-130	1.34	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3E2624 - EPA 3580

Matrix Spike Dup (B3E2624-MSD1)	Source: Y305706-01			Prepared: 05/26/2023 Analyzed: 05/31/2023						
Dibenz (a,h) anthracene	0.212	0.020	mg/kg	0.200	ND	106	70-130	5.41	20	
Fluoranthene	0.202	0.020	"	0.200	ND	101	70-130	2.56	20	
Fluorene	0.194	0.020	"	0.200	ND	97.1	70-130	4.02	20	
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200	ND	102	70-130	4.99	20	
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130	0.926	20	
Phenanthrene	0.195	0.020	"	0.200	ND	97.4	70-130	3.70	20	
Pyrene	0.203	0.020	"	0.200	ND	101	70-130	1.53	20	
Surrogate: Nitrobenzene-d5	190		ug/kg	200		97.2	60-130			
Surrogate: 2-Fluorobiphenyl	210		"	200		105	60-130			
Surrogate: Terphenyl-dl4	200		"	200		102	60-130			

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - UPRC T4N-R67W-S23 Tank  
Battery

### 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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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