

## Tank Battery Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure(2)	5-9-22	Flowline Closure (2)	6-10-22, 6-14-22	Partially Buried Vault Closure	6-9-22
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Site Name & COGCC Facility Number: 329775	Date: Name: UPRC T4N-R67W-S23 Tank Battery	Remediation Project #: 22738
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Associated Wells: (2) 05-123-17826, 17827	Age of Site: years	Date: 6-9-22	Number of Photos Attached: 5
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Location: (GPS coordinates of southeaster berm) 40.304722 / -104.867188	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: ~15-25'
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Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None observed

#### Tanks

Tank Contents	Crude								
Size (barrels)	300								
Age	years								
Construction Material	Steel								
Tank type	AST								
Visual Integrity	Good - per crew								
Condition of tank	Good								
PID Readings	N/A								
Soil impacts present at valves or hatches?	None observed								
PID Readings	1.5								
Sample taken? Location/ Sample ID#	TB-SS-01								
Photo Number(s)	See photolog								

Other observations regarding tanks:

#### Separators

Separator size									
Vertical or Horizontal	Horizontal								
Age	years								
Soil impacts	None observed								
PID Readings	2.4	2.0							
Sample taken? Location/ Sample ID#	TB-SS-02	TB-SS-03							
Photo Number(s)	See photolog								

Other observations regarding separators:

#### Third Party Equipment

Type	Meter	House							
Age	years								

Third Party									
Removal Date	TBD								
Sample taken?	TB-SS-04								
PID Readings	1.9								
Photo Number(s)	See photolog								

**Other Facility Equipment**

Equipment type	VOC Burner				
Equipment Condition	Good - Per crew				
Age	years				
Soil impacts	None observed				
PID Readings	1.8				
Sample taken?	TB-SS-05				
Photo Number(s)	See photolog				

Other observations regarding other facility or third party equipment:

**Summary**

Was impacted soil identified?		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards	
<u>No</u>					
Total number of samples field screened: 5		Total number of samples collected: 5			
Highest PID Reading: 2.4		Total number of samples submitted to lab for analysis: 2			
If more than 10 cubic yards of impacted soil were observed:					
Vertical extent:		N/A		Estimated spill volume:	
Lateral extent:		N/A		Volume of soil removed:	
Is additional investigation required?					
Was groundwater encountered during the investigation?					
<u>No</u>		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:					

## Buried or Partially Buried Vessel Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure(2)	5-9-22	Flowline Closure(2)	6-10-22, 6-14-22	Tank Battery Closure	6-9-22
Site Name & COGCC Facility Number: 329775		Date: Name: UPRC T4N-R67W-S23 Tank Battery				Remediation Project #: 22738			
Associated Wells: (2) 05-123-17826, 17827		Age of Site: years		Date: 6-9-22		Number of Photos Attached: 2			
Location: (GPS coordinates of vault or southeastern tank berm for multiple) 40.304722 / -104.867188						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: ~15-25'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None observed

#### Buried or Partially Buried Vessels

Tank Contents	Produced	water							
Size (barrels)	80								
Age	years								
Construction Material	Concrete								
Visual Integrity	Good								
Condition of tank	Good								
PID Readings	N/A								
Condition of PID Readings	Good								
PID Readings	1.8	2.2	2.4	1.1	1.4				
Sample taken? Location/Sample ID#	WV-SS-01	WV-SS-02	WV-SS-03	WV-SS-04	WV-FS-01				
Photo Number(s)	See photolog								

Other observations regarding partially buried vessels:

#### Summary

Was impacted soil identified?		(No)	Yes - less than 10 cubic yards	Yes - more than 10 cubic yards	
Total number of samples field screened:		5		Total number of samples collected:	5
Highest PID Reading:		2.4		Total number of samples submitted to lab for analysis:	2
<b>If more than 10 cubic yards of impacted soil were observed:</b>					
Vertical extent:		N/A		Estimated spill volume:	
Lateral extent:		N/A		Volume of soil removed:	
Is additional investigation required?					
Was groundwater encountered during the investigation?		(No)	Yes - not impacted or in contact with impacted soils	Yes - groundwater impacted and/or in contact with impacted soils	
Measured depth to groundwater:				Was remedial groundwater removal conducted?	Yes    No
Date Groundwater was encountered:				Commencement date of removal:	
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**

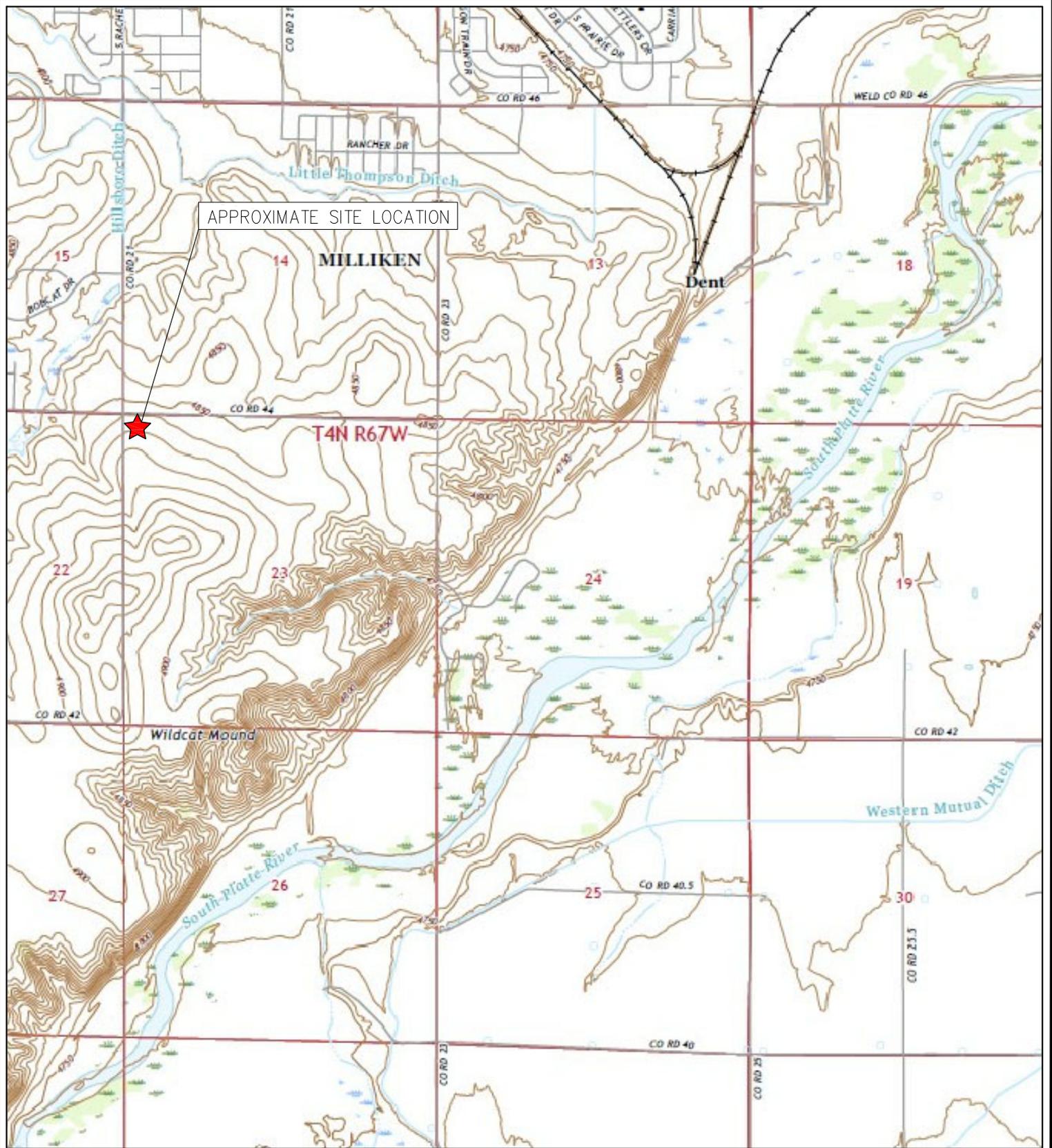
**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**

**Figure 5: Metals in Soil Map**



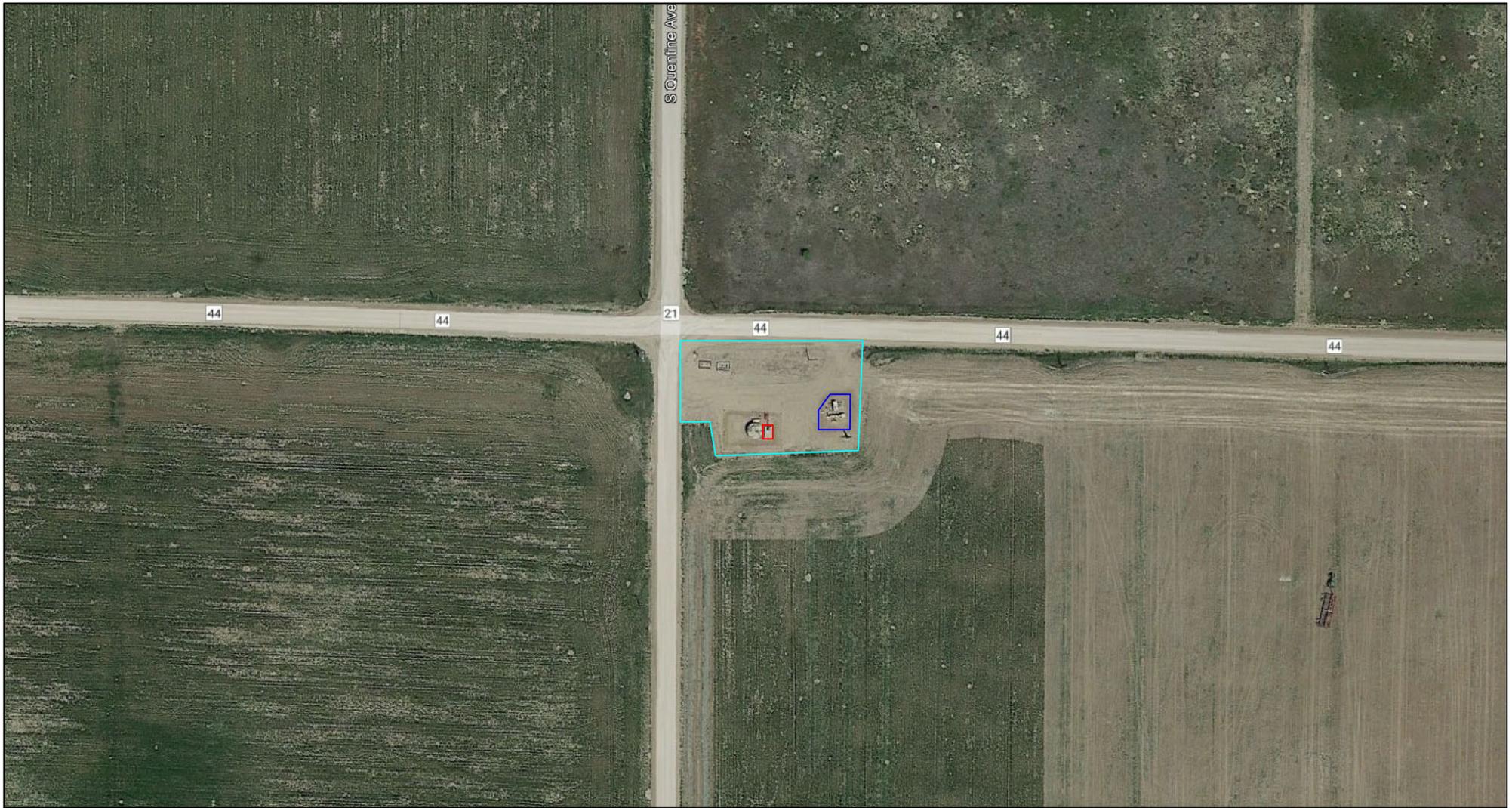
APPROXIMATE SITE LOCATION

TOPOGRAPHIC SITE LOCATION MAP  
 UPRC T4N-R67W-S23 TANK BATTERY  
 CLOSURE ASSESSMENT  
 40.304722 / -104.867188  
 NE 1/4 NW 1/4 SEC.23 T4N R67W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 329775  
 REMEDIATION # 22738



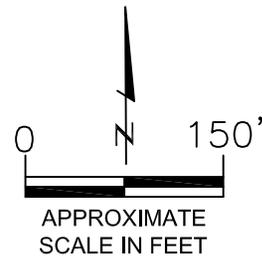
**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.

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



**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  
 CLOSURE ASSESSMENT  
 40.304722 / -104.867188  
 NE¼ NW¼ SEC.23 T4N R67W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 329775  
 REMEDIATION # 22738

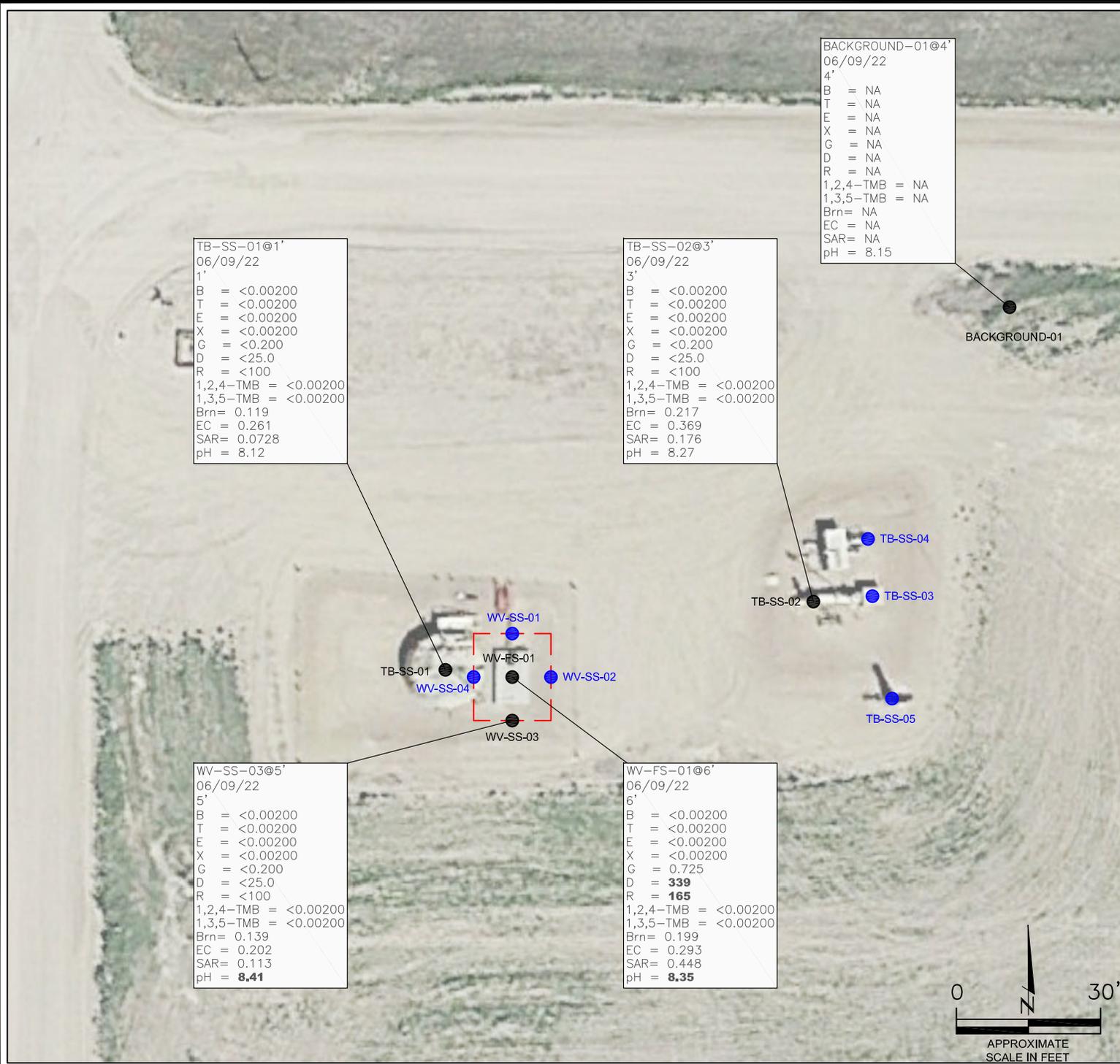
DATE: 06/27/22

FIG. NO.  
2

DRAWN BY:  
GEC



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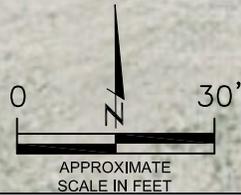
TB-SS-01@1'  
06/09/22  
1'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.119  
EC = 0.261  
SAR= 0.0728  
pH = 8.12

TB-SS-02@3'  
06/09/22  
3'  
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= 0.217  
EC = 0.369  
SAR= 0.176  
pH = 8.27

BACKGROUND-01@4'  
06/09/22  
4'  
B = NA  
T = NA  
E = NA  
X = NA  
G = NA  
D = NA  
R = NA  
1,2,4-TMB = NA  
1,3,5-TMB = NA  
Brn= NA  
EC = NA  
SAR= NA  
pH = 8.15

WV-SS-03@5'  
06/09/22  
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= 0.139  
EC = 0.202  
SAR= 0.113  
pH = **8.41**

WV-FS-01@6'  
06/09/22  
6'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = 0.725  
D = **339**  
R = **165**  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.199  
EC = 0.293  
SAR= 0.448  
pH = **8.35**



**LEGEND**

--- INITIAL ASSESSMENT BOUNDARIES

● APPROXIMATE LOCATION OF SOIL SAMPLES SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR  
SS-02

● APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS  
SS-02

**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

NA = NOT ANALYZED

**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

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**SOIL ANALYTICAL MAP**  
UPRC T4N-R67W-S23 TANK BATTERY  
CLOSURE ASSESSMENT  
40.304722 / -104.867188  
NE¼ NW¼ SEC.23 T4N R67W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 329775  
REMEDATION # 22738

---

DATE: 06/27/22	
DRAWN BY: GEC	
FIG. NO. 3	<b>EAGLE ENVIRONMENTAL CONSULTING, INC.</b> 8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449

TB-SS-01@1'  
06/09/22  
1'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = 0.000668  
Benzo(a)pyrene = 0.00105  
Benzo(b)fluoranthene = 0.00152  
Benzo(k)fluoranthene = 0.000822  
Chrysene = 0.00105  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.00255  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = 0.000985  
Naphthalene = ND  
Pyrene = 0.00237

TB-SS-02@3'  
06/09/22  
3'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

WV-SS-03@5'  
06/09/22  
5'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

WV-FS-01@6'  
06/09/22  
6'  
ND = <0.00067  
1-Methylnaphthalene = **0.00723\***  
2-Methylnaphthalene = 0.00695  
Acenaphthene = 0.0162  
Anthracene = ND  
Benzo(a)anthracene = 0.00194  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = 0.00271  
Benzo(k)fluoranthene = ND  
Chrysene = 0.0066  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.00106  
Fluorene = 0.0318  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = 0.000586  
Pyrene = 0.00576

**LEGEND**

--- INITIAL ASSESSMENT BOUNDARIES

● APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR

● APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:  
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

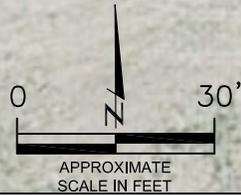
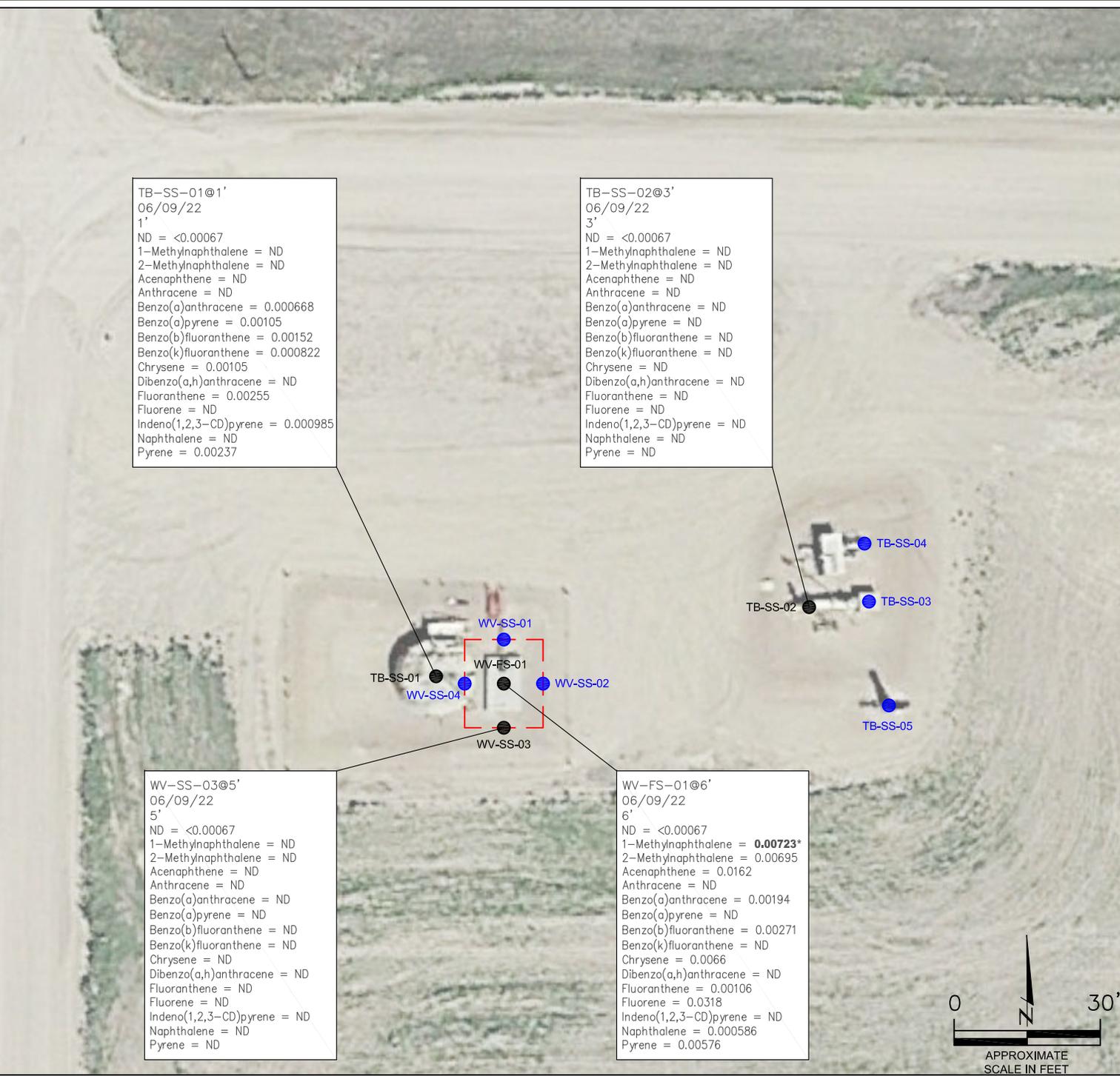
ND = NON-DETECT

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

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



POLYCYCLIC AROMATIC HYDROCARBONS MAP  
UPRC T4N-R67W-S23 TANK BATTERY  
CLOSURE ASSESSMENT  
40.304722 / -104.867188  
NE¼ NW¼ SEC.23 T4N R67W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 329775  
REMEDIATION # 22738

DATE:  
06/27/22

DRAWN BY:  
GEC

FIG.  
NO. 4

**EAGLE**  
ENVIRONMENTAL  
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Ph: 303-433-0479 • F: 303-325-5449



BACKGROUND-01@4'  
06/09/22  
4'

Arsenic = 3.99\*\*\*  
Barium = **155\***  
Cadmium = 0.187  
Chromium (VI) = NA  
Copper = 8.90  
Lead = 9.12  
Nickel = 12.0  
Selenium = <0.186  
Silver = <0.186  
Zinc = 33.1

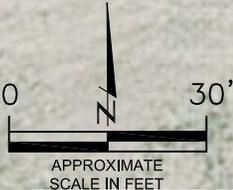
BACKGROUND-01

WV-SS-01  
TB-SS-01 (NS)  
WV-SS-04  
WV-FS-01  
WV-SS-02  
WV-SS-03 (NS)

TB-SS-02 (NS)  
TB-SS-03  
TB-SS-04  
TB-SS-05

WV-FS-01@6'  
06/09/22  
6'

Arsenic = 3.01\*\*\*  
Barium = **101\***  
Cadmium = 0.121  
Chromium (VI) = <1.22\*\*(1)  
Copper = 7.42  
Lead = 6.41  
Nickel = 8.90  
Selenium = 0.162  
Silver = 0.0325  
Zinc = 28.6



**LEGEND**

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

**PARAMETERS**

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

mg/kg = MILLIGRAMS PER KILOGRAM

(NS) = NOT SAMPLED

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** 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. (1) SAMPLE REQUIRED DILUTION, RAISING LABORATORY REPORTING AND DETECTION LIMITS - SAMPLE NON-DETECT.

\*\*\*ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVEL (4.99 mg/kg) is 1.25\*BACKGROUND (3.99 mg/kg).

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

METALS IN SOIL MAP  
UPRC T4N-R67W-S23 TANK BATTERY  
CLOSURE ASSESSMENT  
40.304722 / -104.867188  
NE¼ NW¼ SEC.23 T4N R67W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 329775  
REMEDATION # 22738

DATE:  
10/19/22  
DRAWN BY:  
GEC  
FIG.  
NO. 5



**EAGLE**  
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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**  
**CLOSURE ASSESSMENT**  
**40.304722 / -104.867188**  
**NE1/4 NW1/4 SEC.23 T4N R67W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 329775**  
**REMEDIATION # 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
(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**  
**CLOSURE ASSESSMENT**  
**40.304722 / -104.867188**  
**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)	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>
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	<b>8.41</b>	0.113
WV-FS-01 @ 6' (40.304676 / -104.867301)	06/09/22	6	1.4	<0.00200	<0.00200	<0.00200	<0.00200	0.725	<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

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

NA = Not Analyzed

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** exceed COGCC Table 915-1 Regulatory Limits.

TABLE 3  
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY  
UPRC T4N-R67W-S23 TANK BATTERY  
CLOSURE ASSESSMENT  
40.304722 / -104.867188  
NE1/4 NW1/4 SEC.23 T4N R67W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 329775  
REMEDIATION # 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>				<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>	
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	
COGCC = Colorado Oil and Gas Conservation Commission				PID = Photoionization Detector															
mg/kg = milligrams per kilogram				ppm-v = parts per million by volume															
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.																			
Note: Values presented in <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values presented with an asterisk (*) exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels.																			

**TABLE 4**  
**METALS ANALYTICAL RESULTS SUMMARY**  
**UPRC T4N-R67W-S23 TANK BATTERY**  
**CLOSURE ASSESSMENT**  
**40.304722 / -104.867188**  
**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)	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)
<i>COGCC Table 915-1 Residential Screening Levels</i>			0.68***	15,000	71	0.3**	3,100	400	1,500	390	390	23,000
<i>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</i>			0.29***	82	0.38	0.00067**	46	14	26	0.26	0.8	370
<i>Local Clean-up Levels</i>			4.99***	--	--	0.1 to 1**	--	--	--	--	--	--
WV-FS-01 @ 6' (40.304676 / -104.867301)	06/09/22	6	3.01***	<b>101*</b>	0.121	<1.22**(1)	7.42	6.41	8.90	0.162	0.0325	28.6
Background-01 @ 4' (40.304883 / -104.866929)	06/09/22	4	3.99***	<b>155*</b>	0.187	NA	8.90	9.12	12.0	<0.186	<0.186	33.1

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** exceed applicable COGCC Table 915-1 Regulatory Limits

Values presented with an asterisk (\*) contained exceed 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. (1) Sample required dilution, raising laboratory reporting and detection limits - sample non-detect.

\*\*\*Arsenic is naturally occurring in Colorado. Local Clean-up Level (4.99 mg/kg) is 1.25\*Background (3.99 mg/kg).



## **ATTACHMENT A**

### **Photo Log**

# UPRC T4N-R67W-S23 Tank Battery

Location ID 329775  
Remediation # 22738

Closure Assessment

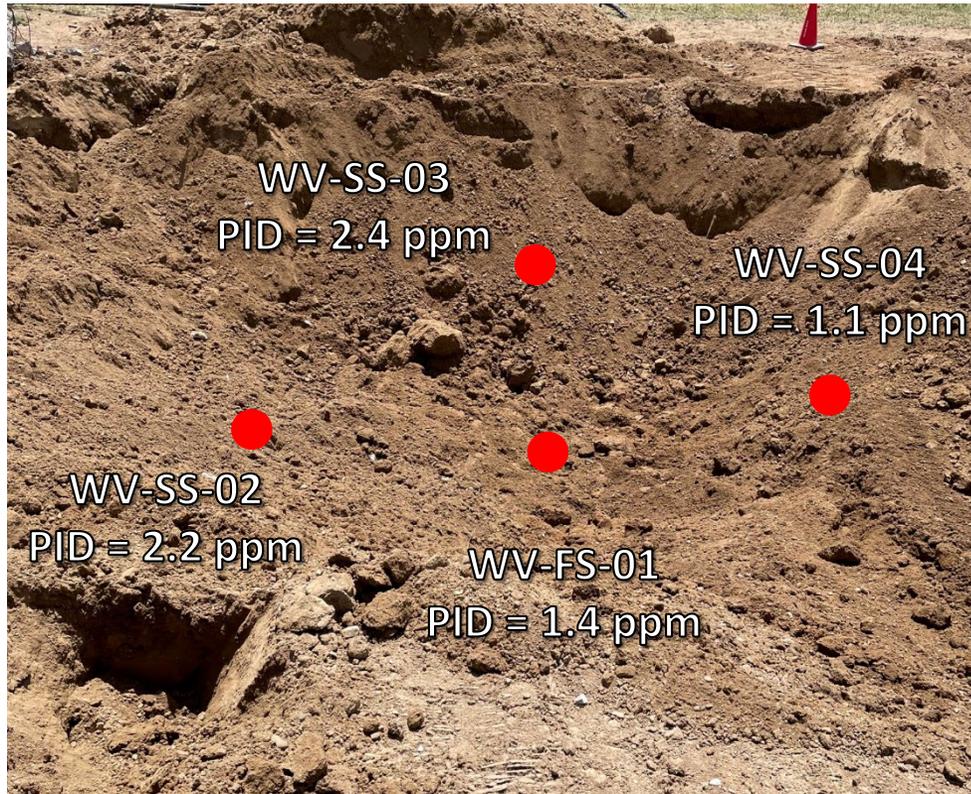
June 2022



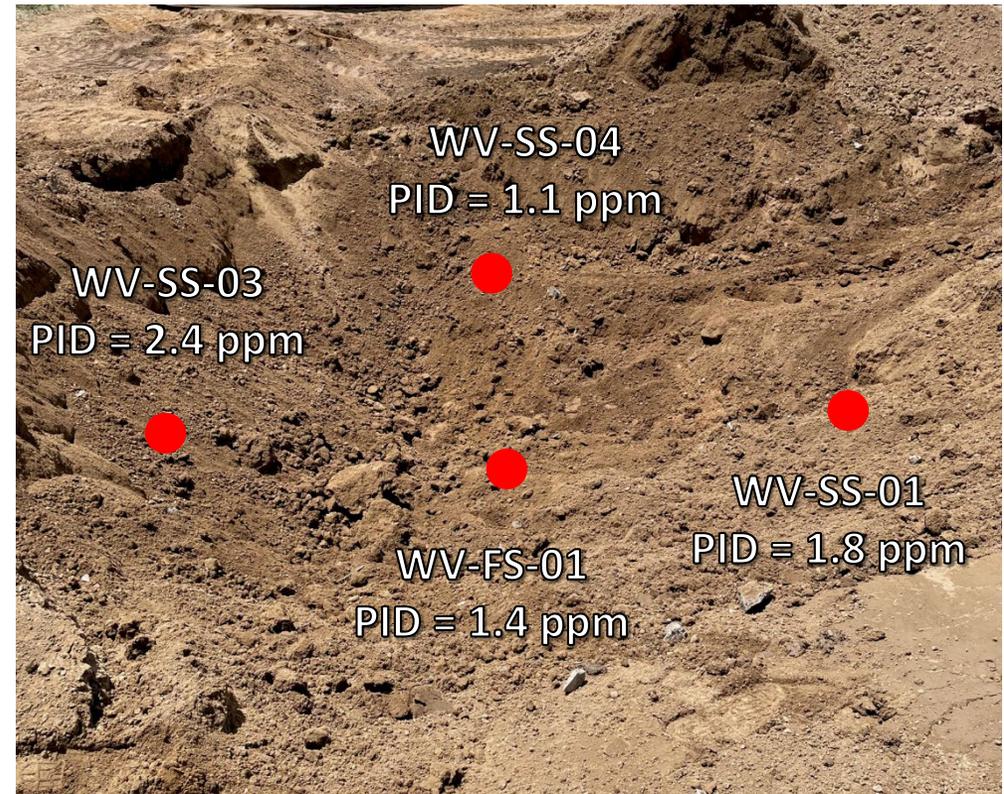
**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



## Buried Vault Excavation – 06/09/22



Looking south at water vault excavation



Looking west at water vault excavation

No petroleum hydrocarbon staining observed. Slight petroleum hydrocarbon odor observed on excavation floor

# Tank Battery Decommissioning – 06/09/22

Looking south

Former production tank location – removed prior to arrival

No petroleum hydrocarbon staining or odor observed



## Tank Battery Decommissioning – 06/09/22



Looking east at separator to flowline connection point

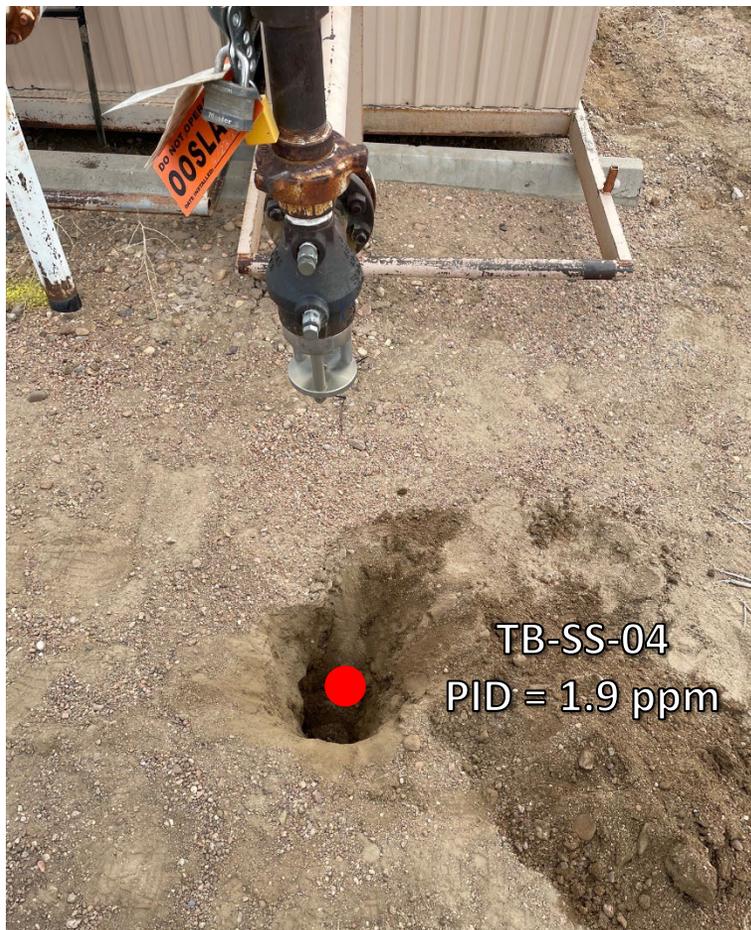
No petroleum hydrocarbon staining or odor observed



Looking west at separator to dumpline connection point

No petroleum hydrocarbon staining or odor observed

## Tank Battery Decommissioning – 06/09/22



Looking west at meter house connection

No petroleum hydrocarbon staining or odor observed



Looking east at VOC burner footprint

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Reports**

July 05, 2022

Eagle Environmental Consulting, Inc.

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. June 09, 2022. This project is associated with Origins project number Y206255-01.

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 - UPRC T4N-R67W-S23 Tank  
Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WV-SS-03@5'	Y206255-01	Soil	June 9, 2022 13:05	06/09/2022 16:00
WV-FS-01@6'	Y206255-02	Soil	June 9, 2022 13:08	06/09/2022 16:00
TB-SS-01@1'	Y206255-03	Soil	June 9, 2022 11:14	06/09/2022 16:00
TB-SS-02@3'	Y206255-04	Soil	June 9, 2022 10:26	06/09/2022 16:00

Chain of Custody Modification Request

On 6/28/2022, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y206255 requesting that Table 915 Metals be added to WV-FS-01@6'.

Requested modifications to the chain of custody were made by Jordan Bynon on 6/28/2022.

Origins Laboratory, Inc.



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



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

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y206 255

Client: Eagle

Client Project ID: UPRC T4N-R67W-S23

Checklist Completed by: MS

Shipped Via: HD

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

Date/time completed: 6/10/22

Airbill #: NA

Turn In Box

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

Cooler Number/Temperature: 1 / 1.8 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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) MS

Date/Time Reviewed 6-13-22

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 - UPRC T4N-R67W-S23 Tank Battery

**WV-SS-03@5'**

**6/9/2022 1:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206255-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.139		0.100	mg/L	1	B2F1018	06/10/2022	06/13/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F1306	06/13/2022	06/17/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F1031	06/10/2022	06/10/2022	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	106 %		70-130			"	"	"	
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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 - UPRC T4N-R67W-S23 Tank  
 Battery

**WV-SS-03@5'**

**6/9/2022 1:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206255-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.6 %		70-130			B2F10 31	06/10/2022	06/10/2022	
Surrogate: 4-Bromofluorobenzene	98.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.42		0.499	meq/L	10	[CALC]	06/10/2022	06/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L621355	06/14/2022	06/15/2022	
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.



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 - UPRC T4N-R67W-S23 Tank Battery

**WV-SS-03@5'**  
**6/9/2022 1:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206255-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L621355	06/14/2022	06/15/2022	
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	47.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	56.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.41			pH Units	1	B2F1021	06/10/2022	06/11/2022	
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**SAR by 20B Saturated Paste**

SAR	0.113			SAR	1	B2F1015	06/10/2022	06/13/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.202		0.00500	mmhos/cm	1	B2F1021	06/10/2022	06/11/2022	
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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 - UPRC T4N-R67W-S23 Tank Battery

**WV-FS-01@6'**

**6/9/2022 1:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206255-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.199		0.100	mg/L	1	B2F1018	06/10/2022	06/13/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	339		25.0	mg/kg	1	B2F1306	06/13/2022	06/17/2022	
Residual Range Organics (C28-C40)	165		100	"	"	"	"	"	

Surrogate: o-Terphenyl	77.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F1031	06/10/2022	06/10/2022	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	0.725		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.3 %		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 - UPRC T4N-R67W-S23 Tank  
 Battery

**WV-FS-01@6'**  
**6/9/2022 1:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206255-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	102 %	70-130				B2F10 31	06/10/2022	06/10/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.09	0.499	meq/L	10	[CALC]		06/10/2022	06/13/2022	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	0.435	0.435	"	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00723	0.000364	0.00067	mg/Kg	1	L621355	06/14/2022	06/15/2022	
2-Methylnaphthalene	0.00695	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.0162	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00194	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00271	0.000585	0.00067	"	"	"	"	"	B
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0066	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00106	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0318	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**WV-FS-01@6'**  
**6/9/2022 1:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206255-02 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.000586	0.000484	0.00067	mg/Kg	1	L621355	06/14/2022	06/15/2022	J
Pyrene	0.00576	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	43.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	72.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.6 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.35			pH Units	1	B2F1021	06/10/2022	06/11/2022	
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**SAR by 20B Saturated Paste**

SAR	0.448			SAR	1	B2F1015	06/10/2022	06/13/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.293		0.00500	mmhos/cm	1	B2F1021	06/10/2022	06/11/2022	
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**Table 915 metals by EPA 6020B**

Arsenic	3.01		0.00100	mg/kg	1	B2F2822	06/28/2022	06/28/2022	
Barium	101		0.100	"	"	"	"	"	
Cadmium	0.121		0.00100	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**WV-FS-01@6'**

**6/9/2022 1:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206255-02 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	7.42		0.0100	mg/kg	1	B2F2822	06/28/2022	06/28/2022	
Lead	6.41		0.00100	"	"	"	"	"	
Nickel	8.90		0.00100	"	"	"	"	"	
Selenium	0.162		0.00100	"	"	"	"	"	
Silver	0.0325		0.00100	"	"	"	"	"	
Zinc	28.6		0.100	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L624630	06/09/2022	07/01/2022	
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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 - UPRC T4N-R67W-S23 Tank  
 Battery

**TB-SS-01@1'**  
**6/9/2022 11:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206255-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.119		0.100	mg/L	1	B2F1018	06/10/2022	06/13/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F1306	06/13/2022	06/17/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F1031	06/10/2022	06/10/2022	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	108 %		70-130			"	"	"	
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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 - UPRC T4N-R67W-S23 Tank  
 Battery

**TB-SS-01@1'**  
**6/9/2022 11:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206255-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.7 %		70-130			B2F10 31	06/10/2022	06/10/2022	
Surrogate: 4-Bromofluorobenzene	99.0 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.79		0.499	meq/L	10	[CALC]	06/10/2022	06/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L621492	06/14/2022	06/15/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000668	0.000493	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	0.00105	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00152	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000822	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00105	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00255	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**TB-SS-01@1'**  
**6/9/2022 11:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206255-03 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	0.000985	0.000627	0.00067	mg/Kg	1	L621492	06/14/2022	06/15/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.00237	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	71.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	94.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	89.1 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.12			pH Units	1	B2F1021	06/10/2022	06/11/2022	
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**SAR by 20B Saturated Paste**

SAR	0.0728			SAR	1	B2F1015	06/10/2022	06/13/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.261		0.00500	mmhos/cm	1	B2F1021	06/10/2022	06/11/2022	
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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 - UPRC T4N-R67W-S23 Tank  
 Battery

**TB-SS-02@3'**  
**6/9/2022 10:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206255-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.217		0.100	mg/L	1	B2F1018	06/10/2022	06/13/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F1306	06/13/2022	06/17/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F1031	06/10/2022	06/10/2022	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	110 %		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 - UPRC T4N-R67W-S23 Tank  
 Battery

**TB-SS-02@3'**  
**6/9/2022 10:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206255-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.7 %		70-130			B2F10 31	06/10/2022	06/10/2022	
Surrogate: 4-Bromofluorobenzene	98.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>2.00</b>		0.499	meq/L	10	[CALC]	06/10/2022	06/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L621492	06/14/2022	06/15/2022	
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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 Wheat Ridge CO 80033

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

**TB-SS-02@3'**  
**6/9/2022 10:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y206255-04 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L621492	06/14/2022	06/15/2022	
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	55.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	73.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	74.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.27			pH Units	1	B2F1021	06/10/2022	06/11/2022	
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**SAR by 20B Saturated Paste**

SAR	0.176			SAR	1	B2F1015	06/10/2022	06/13/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.369		0.00500	mmhos/cm	1	B2F1021	06/10/2022	06/11/2022	
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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 - 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 B2F1031 - EPA 5030 (soil)**

**Blank (B2F1031-BLK1)**

Prepared: 06/10/2022 Analyzed: 06/10/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - 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 B2F1031 - EPA 5030 (soil)**

**LCS (B2F1031-BS1)**

Prepared: 06/10/2022 Analyzed: 06/10/2022

1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Benzene	0.109	0.00200	"	0.100		109	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.120	0.0100	"	0.100		120	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	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 - 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 B2F1031 - EPA 5030 (soil)

Matrix Spike (B2F1031-MS1)	Source: Y206278-01			Prepared: 06/10/2022 Analyzed: 06/10/2022						
1,2,4-Trimethylbenzene	0.134	0.00200	mg/kg	0.100	0.0125	122	70-130			
1,3,5-Trimethylbenzene	0.142	0.00200	"	0.100	0.0144	128	70-130			
Benzene	0.0983	0.00200	"	0.100	ND	98.3	70-130			
Ethylbenzene	0.0969	0.00200	"	0.100	0.000520	96.4	70-130			
Naphthalene	0.106	0.0100	"	0.100	0.00328	103	70-130			
Toluene	0.0953	0.00200	"	0.100	ND	95.3	70-130			
o-Xylene	0.0989	0.00200	"	0.100	0.00158	97.3	70-130			
m,p-Xylene	0.220	0.00400	"	0.200	0.00970	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 - 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 B2F1031 - EPA 5030 (soil)**

Matrix Spike Dup (B2F1031-MSD1)	Source: Y206278-01			Prepared: 06/10/2022 Analyzed: 06/10/2022						
1,2,4-Trimethylbenzene	0.132	0.00200	mg/kg	0.100	0.0125	119	70-130	2.15	20	
1,3,5-Trimethylbenzene	0.135	0.00200	"	0.100	0.0144	121	70-130	4.74	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	2.87	20	
Ethylbenzene	0.0985	0.00200	"	0.100	0.000520	98.0	70-130	1.60	20	
Naphthalene	0.109	0.0100	"	0.100	0.00328	106	70-130	3.22	20	
Toluene	0.0964	0.00200	"	0.100	ND	96.4	70-130	1.13	20	
o-Xylene	0.101	0.00200	"	0.100	0.00158	99.3	70-130	1.94	20	
m,p-Xylene	0.224	0.00400	"	0.200	0.00970	107	70-130	1.47	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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
<b>Batch B2F1306 - EPA 3580</b>										
<b>Blank (B2F1306-BLK1)</b>										
					Prepared: 06/13/2022 Analyzed: 06/17/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	17		"	24.9		70.3	50-150			

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 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 B2F1306 - EPA 3580**

**LCS (B2F1306-BS1)**

Prepared: 06/13/2022 Analyzed: 06/17/2022

Diesel (C10-C28)	743	50.0	mg/kg	1000		74.3	70-130			
Residual Range Organics (C28-C40)	797	200	"	1000		79.7	70-130			
Surrogate: o-Terphenyl	37		"	49.8		73.9	50-150			

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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 B2F1306 - EPA 3580**

<b>Matrix Spike (B2F1306-MS1)</b>	<b>Source: Y206253-01</b>			Prepared: 06/13/2022 Analyzed: 06/17/2022						
Diesel (C10-C28)	1650	50.0	mg/kg	1000	848	80.6	70-130			
Residual Range Organics (C28-C40)	789	200	"	1000	ND	78.9	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.5	50-150			

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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 B2F1306 - EPA 3580**

<b>Matrix Spike Dup (B2F1306-MSD1)</b>	<b>Source: Y206253-01</b>		<b>Prepared: 06/13/2022 Analyzed: 06/17/2022</b>							
Diesel (C10-C28)	1720	50.0	mg/kg	1000	848	86.7	70-130	3.59	35	
Residual Range Organics (C28-C40)	713	200	"	1000	ND	71.3	70-130	10.2	35	
Surrogate: o-Terphenyl	34		"	49.8		69.3	50-150			

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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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**Metals by SM 3500 Series Methods - 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 B2F2822 - Default Prep Metals**

**Blank (B2F2822-BLK1)**

Prepared: 06/28/2022 Analyzed: 06/28/2022

Arsenic	ND	0.00100	mg/kg							U
Barium	ND	0.100	"							U
Cadmium	ND	0.00100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.00100	"							U
Silver	ND	0.00100	"							U
Zinc	ND	0.100	"							U

**LCS (B2F2822-BS1)**

Prepared: 06/28/2022 Analyzed: 06/28/2022

Arsenic	0.0431	0.00100	mg/kg	0.0500		86.3	80-120
Barium	4.99	0.100	"	5.00		99.9	80-120
Cadmium	0.0501	0.00100	"	0.0500		100	80-120
Copper	0.464	0.0100	"	0.500		92.8	80-120
Lead	0.0500	0.00100	"	0.0500		100	80-120
Nickel	0.0532	0.00100	"	0.0500		106	80-120
Selenium	0.0460	0.00100	"	0.0500		92.0	80-120
Silver	0.0480	0.00100	"	0.0500		95.9	80-120
Zinc	0.448	0.100	"	0.500		89.7	80-120

**Matrix Spike (B2F2822-MS1)**

Source: Y206235-01

Prepared: 06/28/2022 Analyzed: 06/28/2022

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

**Metals by SM 3500 Series Methods - 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 B2F2822 - Default Prep Metals**

<b>Matrix Spike (B2F2822-MS1)</b>		<b>Source: Y206235-01</b>			<b>Prepared: 06/28/2022 Analyzed: 06/28/2022</b>					
Arsenic	6.64	0.00100	mg/kg	4.32	2.39	98.6	75-125			
Barium	502	0.100	"	432	49.2	105	75-125			
Cadmium	4.79	0.00100	"	4.32	0.390	102	75-125			
Copper	54.8	0.0100	"	43.2	12.0	99.1	75-125			
Lead	27.7	0.00100	"	4.32	13.7	325	75-125			QM-07, QR-DUP
Nickel	9.89	0.00100	"	4.32	4.26	130	75-125			QM-07
Selenium	4.08	0.00100	"	4.32	0.102	92.2	75-125			
Silver	4.25	0.00100	"	4.32	0.123	95.5	75-125			
Zinc	92.9	0.100	"	43.2	46.4	108	75-125			
<b>Matrix Spike Dup (B2F2822-MSD1)</b>		<b>Source: Y206235-01</b>			<b>Prepared: 06/28/2022 Analyzed: 06/28/2022</b>					
Arsenic	6.28	0.00100	mg/kg	4.30	2.39	90.6	75-125	5.58	20	
Barium	480	0.100	"	430	49.2	100	75-125	4.49	20	
Cadmium	4.65	0.00100	"	4.30	0.390	99.0	75-125	3.06	20	
Copper	53.4	0.0100	"	43.0	12.0	96.4	75-125	2.48	20	
Lead	19.8	0.00100	"	4.30	13.7	143	75-125	33.1	20	QM-07, QR-DUP
Nickel	9.04	0.00100	"	4.30	4.26	111	75-125	9.00	20	
Selenium	3.96	0.00100	"	4.30	0.102	89.7	75-125	3.15	20	
Silver	4.29	0.00100	"	4.30	0.123	97.1	75-125	1.10	20	
Zinc	84.8	0.100	"	43.0	46.4	89.4	75-125	9.16	20	

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

**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 B2F1021 - NO PREP**

**Blank (B2F1021-BLK1)**

Prepared: 06/10/2022 Analyzed: 06/11/2022

pH	0.00		pH Units							
Specific Conductance (EC)	0.00160	0.00500	mmhos/cm							

**Duplicate (B2F1021-DUP1)**

**Source: Y206243-08**

Prepared: 06/10/2022 Analyzed: 06/11/2022

pH	8.45		pH Units		8.43			0.237	25	
Specific Conductance (EC)	0.664	0.00500	mmhos/cm		0.739			10.7	25	

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 Wheat Ridge CO 80033

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L624630 -</b>										
<b>DUP (L 84094-DUP)</b>		<b>Source: 84094</b>			Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	ND	1.22	mg/Kg		<2.50		-	0	20	
<b>MS (L 84094-MS)</b>		<b>Source: 84094</b>			Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	7.92	1.24	mg/Kg	8.14	<1.24	97	75-125			
<b>MSD (L 84094-MSD)</b>		<b>Source: 84094</b>			Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	437	24.6	mg/Kg	617	<24.6	71	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	8.35	0.244	mg/Kg	8		104	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 Wheat Ridge CO 80033

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

**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 L621492 - 3550B

MSD (L 93470-MSD-L621492)		Source: Y206255-03			Prepared: 06/14/2022 Analyzed: 06/15/2022					
Fluoranthene	0.122	0.000394	mg/Kg	0.164	0.00255	72.8	30-130	0.8	30	
2-Methylnaphthalene	0.0987	0.000645	"	0.164	<0.000645	60.1	30-130	9.9	30	
1-Methylnaphthalene	0.103	0.000364	"	0.164	<0.000364	62.8	30-130	0.9	30	
Indeno(1,2,3-cd)pyrene	0.159	0.000627	"	0.164	0.000985	96.3	30-130	0.6	30	
Pyrene	0.122	0.000643	"	0.164	0.00237	72.9	30-130	0.8	30	
Naphthalene	0.103	0.000484	"	0.164	<0.000484	62.8	30-130	0.9	30	
Fluorene	0.117	0.000286	"	0.164	<0.000286	71.3	30-130	1.6	30	
Chrysene	0.119	0.000624	"	0.164	0.00105	71.9	30-130	0.8	30	
Dibenz(a,h)anthracene	0.16	0.000614	"	0.164	<0.000614	97.5	30-130	0.6	30	
Acenaphthene	0.141	0.000304	"	0.164	<0.000304	85.9	30-130	13.6	30	
Benzo(b)fluoranthene	0.111	0.000585	"	0.164	0.00152	66.7	30-130	1.7	30	
Benzo(a)pyrene	0.116	0.000468	"	0.164	0.00105	70	30-130	7.4	30	
Benzo(a)anthracene	0.121	0.000493	"	0.164	0.000668	73.3	30-130	0.8	30	
Anthracene	0.114	0.000334	"	0.164	<0.000334	69.5	30-130	1.7	30	
Benzo(k)fluoranthene	0.111	0.000437	"	0.164	0.000822	67.1	30-130	0	30	
Surrogate: 2-Fluorobiphenyl	77.5		"	0.329	238	77.5	33-115			
Surrogate: 4-Terphenyl-d14	108		"	0.329	313	108	33-122			
Surrogate: Nitrobenzene-d5	77.5		"	0.329	295	77.5	29-110			

MS (L 93470-MS-L621492)		Source: Y206255-03			Prepared: 06/14/2022 Analyzed: 06/15/2022					
Dibenz(a,h)anthracene	0.161	0.000614	mg/Kg	0.164	<0.000614	98.1	30-130			
Fluoranthene	0.123	0.000394	"	0.164	0.00255	73.4	30-130			
Fluorene	0.119	0.000286	"	0.164	<0.000286	72.5	30-130			
Indeno(1,2,3-cd)pyrene	0.16	0.000627	"	0.164	0.000985	96.9	30-130			
Naphthalene	0.104	0.000484	"	0.164	<0.000484	63.4	30-130			
Pyrene	0.121	0.000643	"	0.164	0.00237	72.3	30-130			
Chrysene	0.12	0.000624	"	0.164	0.00105	72.5	30-130			

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

**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 L621492 - 3550B**

<b>MS (L 93470-MS-L621492)</b>		<b>Source: Y206255-03</b>			<b>Prepared: 06/14/2022 Analyzed: 06/15/2022</b>					
Benzo(a)pyrene	0.125	0.000468	mg/Kg	0.164	0.00105	75.5	30-130			
Benzo(a)anthracene	0.12	0.000493	"	0.164	0.000668	72.7	30-130			
Anthracene	0.116	0.000334	"	0.164	<0.000334	70.7	30-130			
Acenaphthene	0.123	0.000304	"	0.164	<0.000304	75	30-130			
2-Methylnaphthalene	0.109	0.000645	"	0.164	<0.000645	66.4	30-130			
1-Methylnaphthalene	0.102	0.000364	"	0.164	<0.000364	62.1	30-130			
Benzo(b)fluoranthene	0.113	0.000585	"	0.164	0.00152	67.9	30-130			
Benzo(k)fluoranthene	0.111	0.000437	"	0.164	0.000822	67.1	30-130			
Surrogate: Nitrobenzene-d5	62.6		"	0.329	295	62.6	29-110			
Surrogate: 4-Terphenyl-d14	99.3		"	0.329	313	99.3	33-122			
Surrogate: 2-Fluorobiphenyl	57.4		"	0.329	238	57.4	33-115			

<b>LCS (LCS-L621492)</b>		<b>Prepared: 06/14/2022 Analyzed: 06/15/2022</b>								
Naphthalene	0.092	0.000484	mg/Kg	0.167		55	30-130			
Pyrene	0.125	0.000643	"	0.167		74.8	30-130			
Benzo(a)anthracene	0.113	0.000493	"	0.167		67.6	30-130			
Benzo(a)pyrene	0.125	0.000468	"	0.167		74.8	30-130			
Benzo(b)fluoranthene	0.108	0.000585	"	0.167		64.6	30-130			
Benzo(k)fluoranthene	0.116	0.000437	"	0.167		69.4	30-130			
Chrysene	0.112	0.000624	"	0.167		67	30-130			
Dibenz(a,h)anthracene	0.117	0.000614	"	0.167		70	30-130			
Fluoranthene	0.124	0.000394	"	0.167		74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.000627	"	0.167		65.2	30-130			
Anthracene	0.102	0.000334	"	0.167		61	30-130			
Fluorene	0.101	0.000286	"	0.167		60.4	30-130			
2-Methylnaphthalene	0.0945	0.000645	"	0.167		56.5	30-130			
1-Methylnaphthalene	0.0965	0.000364	"	0.167		57.7	30-130			

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

**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 L621492 - 3550B**

**LCS (LCS-L621492)**

Prepared: 06/14/2022 Analyzed: 06/15/2022

Acenaphthene	0.095	0.000304	mg/Kg	0.167		56.8	30-130			
Surrogate: Nitrobenzene-d5	81.9		"	0.333		81.9	29-110			
Surrogate: 2-Fluorobiphenyl	69		"	0.333		69	33-115			
Surrogate: 4-Terphenyl-d14	103		"	0.333		103	33-122			

**LRB (LRB-L621492)**

Prepared: 06/14/2022 Analyzed: 06/15/2022

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	72.6		"	0.333		72.6	33-115			
Surrogate: 4-Terphenyl-d14	94.5		"	0.333		94.5	33-122			
Surrogate: Nitrobenzene-d5	89.1		"	0.333		89.1	29-110			

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

**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 L621355 - 3550B**

<b>MSD (L 93445-MSD-L621355)</b>		<b>Source: 93445</b>		<b>Prepared: 06/14/2022 Analyzed: 06/15/2022</b>						
Pyrene	0.221	0.000643	mg/Kg	0.166	<0.000643	133	30-130	76.1	30	*
Chrysene	0.201	0.000624	"	0.166	<0.000624	121	30-130	83	30	
Dibenz(a,h)anthracene	0.224	0.000614	"	0.166	<0.000614	135	30-130	83.5	30	*
Fluoranthene	0.221	0.000394	"	0.166	<0.000394	133	30-130	75.7	30	*
Fluorene	0.18	0.000286	"	0.166	<0.000286	108	30-130	77.6	30	
Indeno(1,2,3-cd)pyrene	0.189	0.000627	"	0.166	<0.000627	114	30-130	76.6	30	
Naphthalene	0.148	0.000484	"	0.166	<0.000484	89.1	30-130	76.5	30	
1-Methylnaphthalene	0.15	0.000364	"	0.166	<0.000364	90.3	30-130	77.3	30	
Benzo(k)fluoranthene	0.194	0.000437	"	0.166	<0.000437	117	30-130	81.1	30	
Benzo(b)fluoranthene	0.174	0.000585	"	0.166	<0.000585	105	30-130	60.1	30	
Benzo(a)pyrene	0.223	0.000468	"	0.166	<0.000468	134	30-130	80.5	30	*
Benzo(a)anthracene	0.199	0.000493	"	0.166	<0.000493	120	30-130	74.7	30	
Anthracene	0.192	0.000334	"	0.166	<0.000334	116	30-130	84.7	30	
Acenaphthene	0.166	0.000304	"	0.166	<0.000304	100	30-130	79.9	30	
2-Methylnaphthalene	0.151	0.000645	"	0.166	<0.000645	90.9	30-130	78.9	30	
Surrogate: 4-Terphenyl-d14	160		"	0.332	257	160	33-122			*
Surrogate: 2-Fluorobiphenyl	105		"	0.332	172	105	33-115			
Surrogate: Nitrobenzene-d5	125		"	0.332	208	125	29-110			*

<b>MS (L 93445-MS-L621355)</b>		<b>Source: 93445</b>		<b>Prepared: 06/14/2022 Analyzed: 06/15/2022</b>						
Acenaphthene	0.0712	0.000304	mg/Kg	0.163	<0.000304	43.6	30-130			
Fluorene	0.0793	0.000286	"	0.163	<0.000286	48.6	30-130			
2-Methylnaphthalene	0.0655	0.000645	"	0.163	<0.000645	40.1	30-130			
Pyrene	0.0991	0.000643	"	0.163	<0.000643	60.7	30-130			
1-Methylnaphthalene	0.0663	0.000364	"	0.163	<0.000364	40.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0843	0.000627	"	0.163	<0.000627	51.7	30-130			
Fluoranthene	0.0996	0.000394	"	0.163	<0.000394	61.1	30-130			

Origins Laboratory, Inc.



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

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

**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 L621355 - 3550B**

MS (L 93445-MS-L621355)	Source: 93445		Prepared: 06/14/2022 Analyzed: 06/15/2022							
Dibenz(a,h)anthracene	0.092	0.000614	mg/Kg	0.163	<0.000614	56.4	30-130			
Benzo(k)fluoranthene	0.082	0.000437	"	0.163	<0.000437	50.3	30-130			
Benzo(b)fluoranthene	0.0935	0.000585	"	0.163	<0.000585	57.3	30-130			
Benzo(a)pyrene	0.0949	0.000468	"	0.163	<0.000468	58.2	30-130			
Benzo(a)anthracene	0.0907	0.000493	"	0.163	<0.000493	55.6	30-130			
Anthracene	0.0777	0.000334	"	0.163	<0.000334	47.6	30-130			
Chrysene	0.083	0.000624	"	0.163	<0.000624	50.9	30-130			
Naphthalene	0.0661	0.000484	"	0.163	<0.000484	40.5	30-130			
Surrogate: Nitrobenzene-d5	53.2		"	0.327	208	53.2	29-110			
Surrogate: 4-Terphenyl-d14	67.5		"	0.327	257	67.5	33-122			
Surrogate: 2-Fluorobiphenyl	43.4		"	0.327	172	43.4	33-115			

LCS (LCS-L621355)	Prepared: 06/14/2022 Analyzed: 06/15/2022									
Chrysene	0.192	0.000624	mg/Kg	0.167		115	30-130			
Fluoranthene	0.211	0.000394	"	0.167		126	30-130			
Fluorene	0.171	0.000286	"	0.167		102	30-130			
Indeno(1,2,3-cd)pyrene	0.165	0.000627	"	0.167		98.8	30-130			
Naphthalene	0.147	0.000484	"	0.167		88	30-130			
Pyrene	0.208	0.000643	"	0.167		125	30-130			
Benzo(k)fluoranthene	0.19	0.000437	"	0.167		114	30-130			
1-Methylnaphthalene	0.148	0.000364	"	0.167		88.6	30-130			
Benzo(a)pyrene	0.209	0.000468	"	0.167		125	30-130			
Benzo(a)anthracene	0.187	0.000493	"	0.167		112	30-130			
Anthracene	0.17	0.000334	"	0.167		102	30-130			
Acenaphthene	0.157	0.000304	"	0.167		94	30-130			
2-Methylnaphthalene	0.151	0.000645	"	0.167		90.4	30-130			
Dibenz(a,h)anthracene	0.199	0.000614	"	0.167		119	30-130			

Origins Laboratory, Inc.



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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L621355 - 3550B</b>										
<b>LCS (LCS-L621355)</b>					Prepared: 06/14/2022 Analyzed: 06/15/2022					
Benzo(b)fluoranthene	0.169	0.000585	mg/Kg	0.167		101	30-130			
Surrogate: Nitrobenzene-d5	130		"	0.333		130	29-110			*
Surrogate: 4-Terphenyl-d14	166		"	0.333		166	33-122			*
Surrogate: 2-Fluorobiphenyl	110		"	0.333		110	33-115			
<b>LRB (LRB-L621355)</b>					Prepared: 06/14/2022 Analyzed: 06/15/2022					
Dibenz(a,h)anthracene	0.00237	0.00067	mg/Kg				-			*
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	0.00144	0.00067	"				-			*
Naphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	0.00102	0.00067	"				-			*
Benzo(b)fluoranthene	0.000909	0.00067	"				-			*
Benzo(a)pyrene	0.000619	0.00067	"				-			J
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	66.3		"	0.333		66.3	29-110			
Surrogate: 4-Terphenyl-d14	84.3		"	0.333		84.3	33-122			
Surrogate: 2-Fluorobiphenyl	56.7		"	0.333		56.7	33-115			

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 - UPRC T4N-R67W-S23 Tank  
Battery

### Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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.

B Analyte detected in associated method blank.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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



July 15, 2022

Eagle Environmental Consulting, Inc.

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. June 29, 2022. This project is associated with Origins project number Y206741-01.

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 - UPRC T4N-R67W-S23 Tank  
Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@4'	Y206741-01	Soil	June 9, 2022 10:42	06/29/2022 12:14

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.*

Jen Pellegrini, Project Manager



Eagle Environmental Consulting, Inc.  
 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

Origins Work Order: Y2006741 Sample Receipt Checklist

Client: Eagle/Moble  
 Client Project ID: UPRC TAN

Checklist Completed by: JPB  
 Date/time completed: 6-30-22

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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

Cooler Number/Temperature: 1, 1.8 °C /            °C /            °C (Describe)

Thermometer ID: T603

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> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	X			
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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):			X	

<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) JPB

Date/Time Reviewed 7/1/22

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 - UPRC T4N-R67W-S23 Tank  
 Battery

**Background-01@4'**  
**6/9/2022 10:42:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y206741-01 (Soil)**

**pH in Soil by 9045D**

pH	8.15		pH Units	1	B2F3006	ACC	06/30/2022	07/01/2022	
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**Table 915 metals by EPA 6020B**

Arsenic	3.99	0.186	mg/kg	2	B2F3007	CW	06/30/2022	07/06/2022	
Barium	155	9.28	"	"	"	CW	"	"	
Cadmium	0.187	0.186	"	"	"	CW	"	"	
Copper	8.90	1.86	"	"	"	CW	"	"	
Lead	9.12	0.186	"	"	"	CW	"	"	
Nickel	12.0	0.186	"	"	"	CW	"	"	
Selenium	ND	0.186	"	"	"	CW	"	"	U
Silver	ND	0.186	"	"	"	CW	"	"	U
Zinc	33.1	18.6	"	"	"	CW	"	"	

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 - UPRC T4N-R67W-S23 Tank  
 Battery

**Metals by SM 3500 Series Methods - 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 B2F3007 - Default Prep Metals**

**Blank (B2F3007-BLK1)**

Prepared: 06/30/2022 Analyzed: 07/06/2022

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0500	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.00100	"							U
Zinc	ND	0.100	"							U

**LCS (B2F3007-BS1)**

Prepared: 06/30/2022 Analyzed: 07/06/2022

Arsenic	0.0955	0.000100	mg/kg	0.100		95.5	80-120
Barium	9.41	0.0500	"	10.0		94.1	80-120
Cadmium	0.105	0.000100	"	0.100		105	80-120
Copper	1.03	0.0100	"	1.00		103	80-120
Lead	0.105	0.00100	"	0.100		105	80-120
Nickel	0.105	0.00100	"	0.100		105	80-120
Selenium	0.102	0.000100	"	0.100		102	80-120
Silver	0.107	0.00100	"	0.100		107	80-120
Zinc	0.963	0.100	"	1.00		96.3	80-120

**Matrix Spike (B2F3007-MS1)**

Source: Y206731-01

Prepared: 06/30/2022 Analyzed: 07/06/2022

Arsenic	9.07	0.0173	mg/kg	8.67	1.87	83.0	75-125
Barium	859	8.67	"	867	38.7	94.5	75-125
Cadmium	9.16	0.0173	"	8.67	0.0825	105	75-125
Copper	80.2	1.73	"	86.7	5.75	85.9	75-125
Lead	14.0	0.173	"	8.67	5.18	102	75-125

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

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

**Metals by SM 3500 Series Methods - 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 B2F3007 - Default Prep Metals**

<b>Matrix Spike (B2F3007-MS1)</b>		<b>Source: Y206731-01</b>			<b>Prepared: 06/30/2022 Analyzed: 07/06/2022</b>					
Nickel	14.9	0.173	mg/kg	8.67	6.72	94.5	75-125			
Selenium	6.98	0.0173	"	8.67	0.0743	79.6	75-125			
Silver	9.18	0.173	"	8.67	0.0256	106	75-125			
Zinc	89.2	17.3	"	86.7	17.9	82.3	75-125			
<b>Matrix Spike Dup (B2F3007-MSD1)</b>		<b>Source: Y206731-01</b>			<b>Prepared: 06/30/2022 Analyzed: 07/06/2022</b>					
Arsenic	8.91	0.0180	mg/kg	8.99	1.87	78.3	75-125	1.78	20	
Barium	826	8.99	"	899	38.7	87.6	75-125	3.88	20	
Cadmium	8.86	0.0180	"	8.99	0.0825	97.6	75-125	3.34	20	
Copper	81.5	1.80	"	89.9	5.75	84.3	75-125	1.58	20	
Lead	13.1	0.180	"	8.99	5.18	88.3	75-125	6.74	20	
Nickel	14.2	0.180	"	8.99	6.72	83.2	75-125	4.95	20	
Selenium	7.46	0.0180	"	8.99	0.0743	82.2	75-125	6.69	20	
Silver	8.71	0.180	"	8.99	0.0256	96.6	75-125	5.24	20	
Zinc	90.0	18.0	"	89.9	17.9	80.3	75-125	0.913	20	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**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 B2F3006 - NO PREP**

**Duplicate (B2F3006-DUP1)**

**Source: Y206731-01**

Prepared: 06/30/2022 Analyzed: 07/01/2022

pH	8.39		pH Units		8.26			1.56	25	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - UPRC T4N-R67W-S23 Tank  
Battery

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager