



## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**



**Topographic Site Location Map**

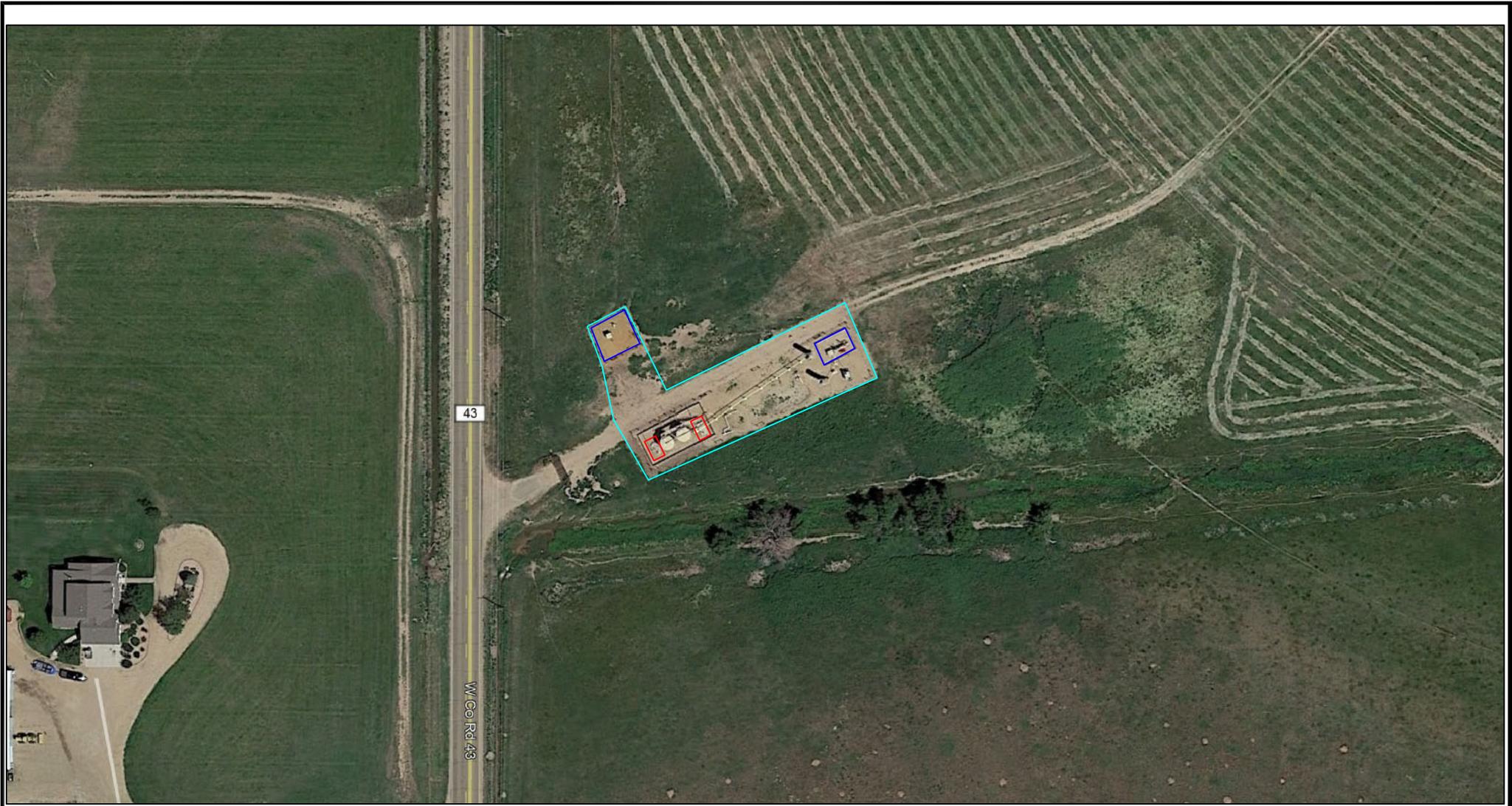
Boulder #18-34 Tank Battery  
 Closure Assessment / Historical Release  
 40.356814 / -104.658323  
 SW¼ NW¼ SEC.34 T5N R65W 6PM  
 Weld County, Colorado  
 Location ID 464894  
 Remediation # 17914



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.

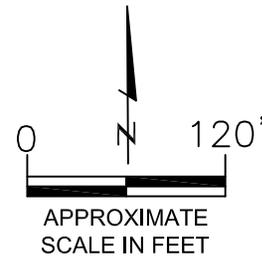
Source: USGS 7.5 Minute Topographic  
 Map: LaSalle, CO Quadrangle 2013

**Figure 1**



**LEGEND**

- FORMER BOULTER #18-34 TANK BATTERY (DECOMMISSIONED)
- APPROXIMATE WATER VAULT LOCATIONS (REMOVED)
- SEPARATOR CONTAINMENT AREAS (DECOMMISSIONED)



**AERIAL SITE LOCATION MAP**  
 BOULTER #18-34 TANK BATTERY  
 CLOSURE ASSESSMENT / HISTORICAL RELEASE  
 40.356814 / -104.658323  
 SW1/4 NW1/4 SEC.34 T5N R6W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 464894  
 REMEDIATION # 17914

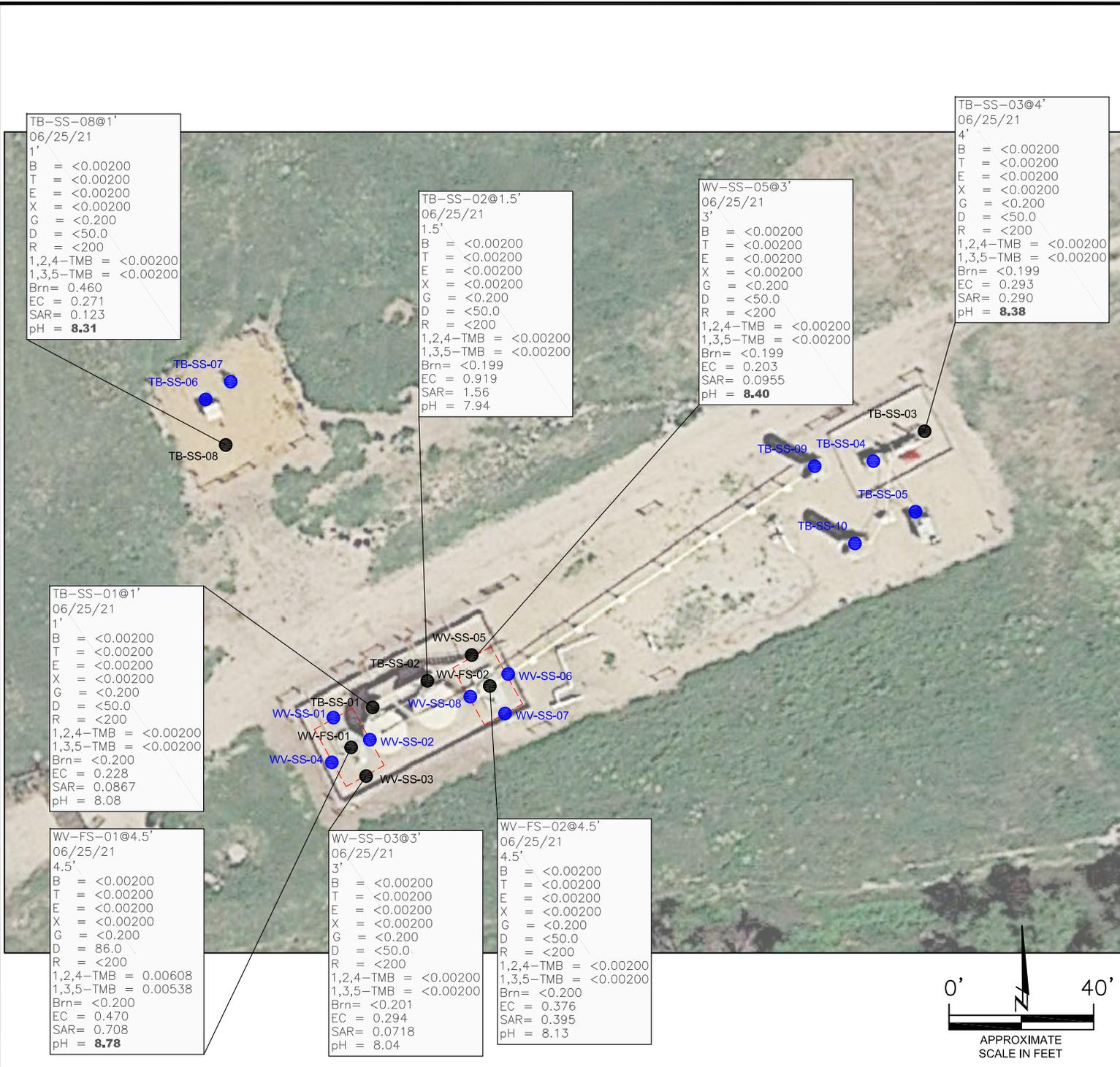
DATE: 07/02/21

FIG. NO.  
2

DRAWN BY:  
AMN



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.  
 8000 W. 44TH AVE, WHEAT RIDGE, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449



**LEGEND**

--- APPROXIMATE ASSESSMENT BOUNDARIES

● TB-SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR (PID)

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

**PARAMETERS**

**SAMPLE LOCATION**

DATE

DEPTH (FEET)

B = BENZENE (mg/kg)  
T = TOLUENE (mg/kg)  
E = ETHYLBENZENE (mg/kg)  
X = TOTAL XYLENES (mg/kg)  
G = TPH-GRO (mg/kg)  
D = TPH-DRO (mg/kg)  
R = TPH-RRO (mg/kg)  
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)  
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)  
Brn= BORON (mg/L)  
EC = SPECIFIC CONDUCTANCE (mmhos/cm)  
SAR= SODIUM ADSORPTION RATIO  
pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM  
mg/L = MILLIGRAMS PER LITER

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND

VALUES PRESENTED WITH AN ASTERISK(\*) CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS FOR THAT COMPOUND

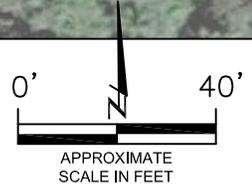
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

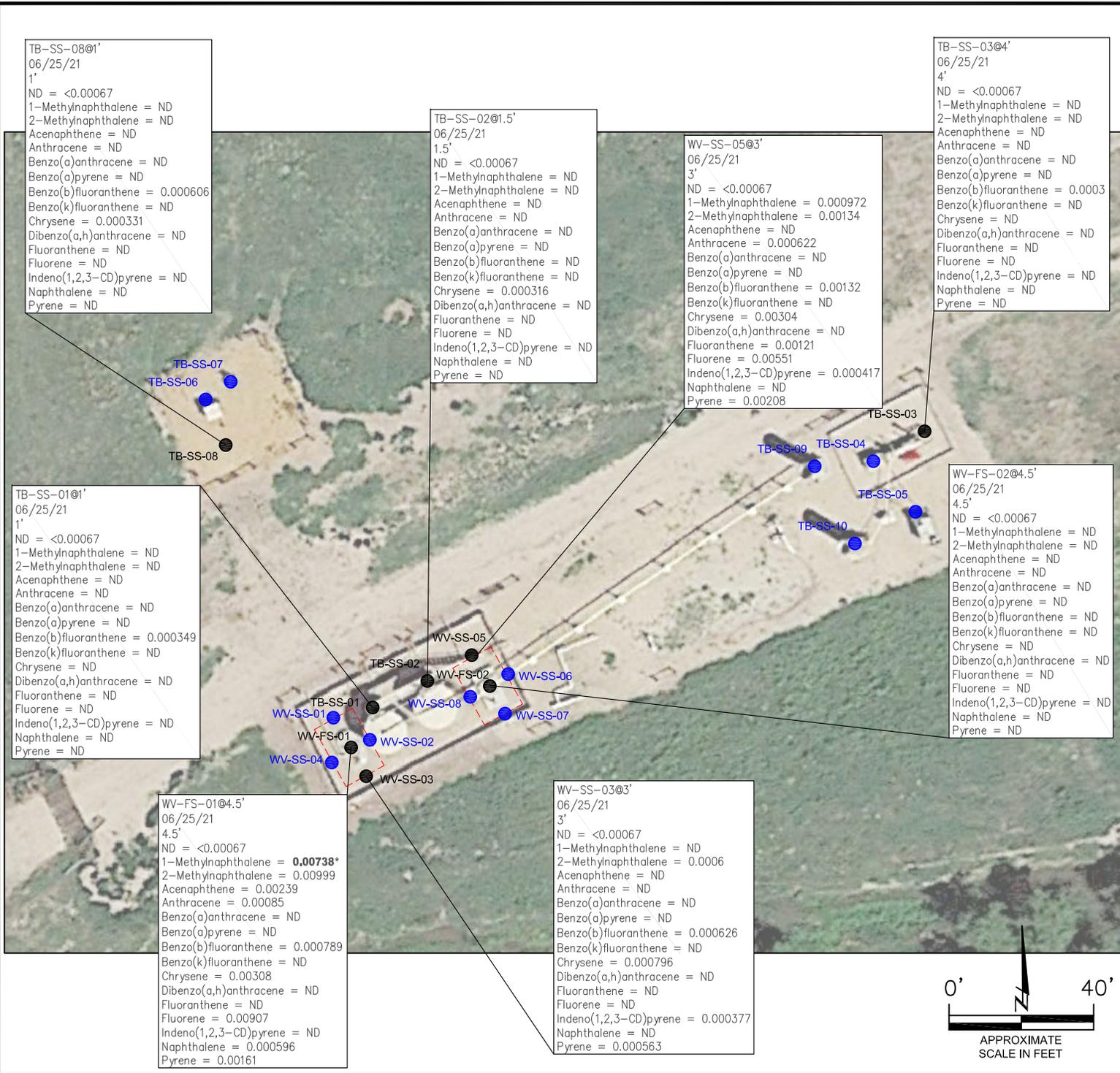
**SOIL ANALYTICAL MAP**  
BOULDER #18-34 TANK BATTERY  
CLOSURE ASSESSMENT / HISTORICAL RELEASE  
40.356814 / -104.658323  
SW ¼ NW ¼ SEC.34 T5N R65W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 464894  
REMIEDIATION # 17914

DATE:  
07/02/21

DRAWN BY:  
AMN

FIG. NO. 3





**LEGEND**

- - - - - APPROXIMATE ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR (PID)
- 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

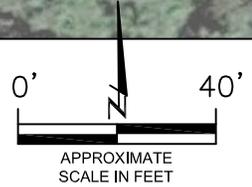
NOTE:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY REPORTING LIMITS

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND

VALUES PRESENTED WITH AN ASTERISK(\*) CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS FOR THAT COMPOUND

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**POLYCYCLIC AROMATIC HYDROCARBONS MAP**  
 BOULTER #18-34 TANK BATTERY  
 CLOSURE ASSESSMENT / HISTORICAL RELEASE  
 40.356814 / -104.658323  
 SW ¼ NW ¼ SEC.34 T5N R65W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 464894  
 REMEDIATION # 17914



DATE:  
 07/02/21  
 DRAWN BY:  
 AMN  
 FIG. NO. 4

**EAGLE ENVIRONMENTAL CONSULTING, INC.**  
 8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-443-0479 • F: 303-325-5449



## **ATTACHMENT A**

### **Photo Log**

# Boulter #18-34 Tank Battery

Location ID 464894

Remediation # 17914

Closure Assessment / Historical Release

June 2021



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



## Tank Battery Decommissioning – 06/25/21



Looking northwest at western water vault excavation  
No petroleum hydrocarbon odor or staining observed in soil



Looking southeast at western water vault excavation  
No petroleum hydrocarbon odor or staining observed in soil

## Tank Battery Decommissioning – 06/25/21



Looking south at western production tank location  
No petroleum hydrocarbon odor or staining observed in soil



Looking north at east production tank location  
No petroleum hydrocarbon odor or staining observed in soil

## Tank Battery Decommissioning – 06/25/21



Looking east at flowline to eastern separator/flowline connection location  
No petroleum hydrocarbon odor or staining observed in soil



Looking west-southwest at eastern separator/dumpline connection area  
No petroleum hydrocarbon odor or staining observed in soil

## Tank Battery Decommissioning – 06/25/21



Looking east at northern meter house and pipeline manifold  
No petroleum hydrocarbon odor or staining observed in soil



Looking at eastern meter house and former flare location  
No petroleum hydrocarbon odor or staining observed in soil

## Tank Battery Decommissioning – 06/25/21



Looking north at former northern separator location (removed between September 2016 and October 20217 (based on Google Earth aerial)

No petroleum hydrocarbon odor or staining observed in soil



## **ATTACHMENT B**

### **Laboratory Analytical Reports**



July 02, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Boulter #18-34 Tank  
Battery**

**Project Number - 425857973**

Attached are your analytical results for Noble - Boulter #18-34 Tank Battery received by Origins Laboratory, Inc. June 25, 2021. This project is associated with Origins project number Y106651-01.

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: 425857973  
Project: Noble - Boulter #18-34 Tank Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WV-SS-03@3'	Y106651-01	Soil	June 25, 2021 10:00	06/25/2021 14:06
WV-SS-05@3'	Y106651-02	Soil	June 25, 2021 9:31	06/25/2021 14:06
WV-FS-01@4.5'	Y106651-03	Soil	June 25, 2021 10:05	06/25/2021 14:06
WV-FS-02@4.5'	Y106651-04	Soil	June 25, 2021 9:45	06/25/2021 14:06

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: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

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

**Sample Receipt Checklist**

Origins Work Order: 1106651 Client: Eagle  
 Client Project ID: Boulder 18-34 TB

Checklist Completed by: SLG Shipped Via: HS  
 Date/time completed: 6/25/21 (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, 6.6 °c / \_\_\_\_\_ °c / \_\_\_\_\_ °c / \_\_\_\_\_ °c (Describe)  
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: Jm (Project Manager) Date/Time Reviewed: 6-28-21

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: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-SS-03@3'**  
**6/25/2021 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106651-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.201	mg/L	1	B1F2806	JMA	06/28/2021	06/28/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F2519	KDK	06/25/2021	06/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: <i>o</i> -Terphenyl	108 %	50-150			"	"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F2518	KDK	06/25/2021	06/28/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-SS-03@3'**  
**6/25/2021 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106651-01 (Soil)**

**Metals by Saturated Paste**

Calcium	1.89		meq/L	1	[CALC]	CJM	06/29/2021	06/29/2021	
Magnesium	0.789		"	"	"	CJM	"	"	
Sodium	0.0831		"	"	"	CJM	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L561313		06/30/2021	06/30/2021	
2-Methylnaphthalene	0.0006	0.00067	"	"	"		"	"	J
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.000626	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000796	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.000377	0.00067	"	"	"		"	"	J
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.000563	0.00067	"	"	"		"	"	J

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-SS-03@3'**

**6/25/2021 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y106651-01 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	67.2 %	33-115			L5613 13		06/30/2021	06/30/2021	
Surrogate: 4-Terphenyl-d14	69.6 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	55.9 %	29-110			"	"	"	"	

**pH in Soil by EPA 9045D**

pH	<b>8.04</b>		pH Units	1	B1F2821	DJL	06/28/2021	06/29/2021	
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**SAR by 20B Saturated Paste**

SAR	<b>0.0718</b>		SAR	1	B1F2912	CJM	06/29/2021	06/29/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.294</b>	0.00500	mmhos/cm	1	B1F2823	DJL	06/28/2021	06/29/2021	
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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: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-SS-05@3'**  
**6/25/2021 9:31:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106651-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.199	mg/L	1	B1F2806	JMA	06/28/2021	06/28/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F2519	KDK	06/25/2021	06/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: <i>o</i> -Terphenyl	107 %	50-150			"	"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F2518	KDK	06/25/2021	06/28/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-SS-05@3'**  
**6/25/2021 9:31:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106651-02 (Soil)**

**Metals by Saturated Paste**

Calcium	1.51		meq/L	1	[CALC]	CJM	06/29/2021	06/29/2021	
Magnesium	0.373		"	"	"	CJM	"	"	
Sodium	0.0927		"	"	"	CJM	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000972	0.00067	mg/Kg	1	L561313		06/30/2021	06/30/2021	
2-Methylnaphthalene	0.00134	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	0.000622	0.00067	"	"	"		"	"	J
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.00132	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.00304	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.00121	0.00067	"	"	"		"	"	
Fluorene	0.00551	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.000417	0.00067	"	"	"		"	"	J
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00208	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl 71.5 % 33-115 " " "

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-SS-05@3'**  
**6/25/2021 9:31:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y106651-02 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	72.4 %	33-122			L5613 13		06/30/2021	06/30/2021	
Surrogate: Nitrobenzene-d5	59.2 %	29-110			"	"	"	"	

**pH in Soil by EPA 9045D**

pH	8.40		pH Units	1	B1F2821	DJL	06/28/2021	06/29/2021	
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**SAR by 20B Saturated Paste**

SAR	0.0955		SAR	1	B1F2912	CJM	06/29/2021	06/29/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.203	0.00500	mmhos/cm	1	B1F2823	DJL	06/28/2021	06/29/2021	
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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-FS-01@4.5'**  
**6/25/2021 10:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106651-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.200	mg/L	1	B1F2806	JMA	06/28/2021	06/28/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	<b>86.0</b>	50.0	mg/kg	1	B1F2519	KDK	06/25/2021	06/26/2021	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: <i>o</i> -Terphenyl	130 %	50-150			"	"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	<b>0.00608</b>	0.00200	mg/kg	1	B1F2518	KDK	06/25/2021	06/28/2021	
1,3,5-Trimethylbenzene	<b>0.00538</b>	0.00200	"	"	"	KDK	"	"	
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	"	

**Metals by Saturated Paste**

Origins Laboratory, Inc.



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 Project Number: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-FS-01@4.5'**  
**6/25/2021 10:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106651-03 (Soil)**

**Metals by Saturated Paste**

Calcium	2.65		meq/L	1	[CALC]	CJM	06/29/2021	06/29/2021	
Magnesium	0.744		"	"	"	CJM	"	"	
Sodium	0.922		"	"	"	CJM	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00738	0.00067	mg/Kg	1	L561313		06/30/2021	06/30/2021	
2-Methylnaphthalene	0.00999	0.00067	"	"	"		"	"	
Acenaphthene	0.00239	0.00067	"	"	"		"	"	
Anthracene	0.00085	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.000789	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.00308	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	0.00907	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	0.000596	0.00067	"	"	"		"	"	J
Pyrene	0.00161	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl 69.5 % 33-115 " " "

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 Project Number: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-FS-01@4.5'**  
**6/25/2021 10:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y106651-03 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	70.8 %	33-122			L5613 13		06/30/2021	06/30/2021	
Surrogate: Nitrobenzene-d5	60 %	29-110			"		"	"	

**pH in Soil by EPA 9045D**

pH	8.78		pH Units	1	B1F2821	DJL	06/28/2021	06/29/2021	
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**SAR by 20B Saturated Paste**

SAR	0.708		SAR	1	B1F2912	CJM	06/29/2021	06/29/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.470	0.00500	mmhos/cm	1	B1F2823	DJL	06/28/2021	06/29/2021	
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Origins Laboratory, Inc.



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Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-FS-02@4.5'**  
**6/25/2021 9:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106651-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.200	mg/L	1	B1F2806	JMA	06/28/2021	06/28/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F2519	KDK	06/25/2021	06/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: <i>o</i> -Terphenyl	118 %	50-150			"	"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F2518	KDK	06/25/2021	06/28/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	"	

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-FS-02@4.5'**  
**6/25/2021 9:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106651-04 (Soil)**

**Metals by Saturated Paste**

Calcium	2.02		meq/L	1	[CALC]	CJM	06/29/2021	06/29/2021	
Magnesium	0.861		"	"	"	CJM	"	"	
Sodium	0.475		"	"	"	CJM	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L561313		06/30/2021	06/30/2021	
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	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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 Project Number: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

**WV-FS-02@4.5'**

**6/25/2021 9:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y106651-04 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	75.3 %	33-115			L5613 13		06/30/2021	06/30/2021	
Surrogate: 4-Terphenyl-d14	78.7 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	63.7 %	29-110			"	"	"	"	

**pH in Soil by EPA 9045D**

pH	8.13		pH Units	1	B1F2821	DJL	06/28/2021	06/29/2021	
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**SAR by 20B Saturated Paste**

SAR	0.395		SAR	1	B1F2912	CJM	06/29/2021	06/29/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.376	0.00500	mmhos/cm	1	B1F2823	DJL	06/28/2021	06/29/2021	
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Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 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 B1F2518 - EPA 5030 (soil)**

**Blank (B1F2518-BLK1)**

Prepared: 06/25/2021 Analyzed: 06/25/2021

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
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 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 B1F2518 - EPA 5030 (soil)**

**LCS (B1F2518-BS1)**

Prepared: 06/25/2021 Analyzed: 06/25/2021

1,2,4-Trimethylbenzene	0.0487	0.00200	mg/kg	0.0500		97.4	70-130			
1,3,5-Trimethylbenzene	0.0485	0.00200	"	0.0500		97.0	70-130			
Benzene	0.0561	0.00200	"	0.0500		112	70-130			
Ethylbenzene	0.0476	0.00200	"	0.0500		95.2	70-130			
m,p-Xylene	0.0975	0.00400	"	0.100		97.5	70-130			
o-Xylene	0.0480	0.00200	"	0.0500		96.0	70-130			
Toluene	0.0480	0.00200	"	0.0500		96.0	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>94.2</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.11</i>		<i>"</i>	<i>0.125</i>		<i>90.4</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>95.9</i>	<i>70-130</i>			

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 Project: Noble - Boulder #18-34 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 B1F2518 - EPA 5030 (soil)**

<b>Matrix Spike (B1F2518-MS1)</b>	<b>Source: Y106651-01</b>			<b>Prepared: 06/25/2021 Analyzed: 06/25/2021</b>						
1,2,4-Trimethylbenzene	0.0418	0.00200	mg/kg	0.0500	ND	83.5	70-130			
1,3,5-Trimethylbenzene	0.0414	0.00200	"	0.0500	ND	82.7	70-130			
Benzene	0.0543	0.00200	"	0.0500	ND	109	70-130			
Ethylbenzene	0.0431	0.00200	"	0.0500	ND	86.2	70-130			
m,p-Xylene	0.0875	0.00400	"	0.100	ND	87.5	70-130			
o-Xylene	0.0436	0.00200	"	0.0500	ND	87.2	70-130			
Toluene	0.0451	0.00200	"	0.0500	ND	90.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.5</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.11</i>		<i>"</i>	<i>0.125</i>		<i>89.8</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>96.0</i>	<i>70-130</i>			

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 Project Number: 425857973  
 Project: Noble - Boulder #18-34 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 B1F2518 - EPA 5030 (soil)

Matrix Spike Dup (B1F2518-MSD1)	Source: Y106651-01			Prepared: 06/25/2021 Analyzed: 06/25/2021						
1,2,4-Trimethylbenzene	0.0442	0.00200	mg/kg	0.0500	ND	88.4	70-130	5.63	20	
1,3,5-Trimethylbenzene	0.0439	0.00200	"	0.0500	ND	87.8	70-130	5.96	20	
Benzene	0.0577	0.00200	"	0.0500	ND	115	70-130	6.07	20	
Ethylbenzene	0.0454	0.00200	"	0.0500	ND	90.9	70-130	5.33	20	
m,p-Xylene	0.0927	0.00400	"	0.100	ND	92.7	70-130	5.75	20	
o-Xylene	0.0460	0.00200	"	0.0500	ND	92.0	70-130	5.31	20	
Toluene	0.0480	0.00200	"	0.0500	ND	96.0	70-130	6.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

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Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 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 B1F2519 - EPA 3550B</b>										
<b>Blank (B1F2519-BLK1)</b>										
					Prepared: 06/25/2021 Analyzed: 06/26/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	32		"	25.0		127	50-150			

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Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 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 B1F2519 - EPA 3550B**

**LCS (B1F2519-BS1)**

Prepared: 06/25/2021 Analyzed: 06/26/2021

Diesel (C10-C28)	576	50.0	mg/kg	500		115	70-130			
Residual Range Organics (C28-C40)	632	200	"	500		126	70-130			
Surrogate: o-Terphenyl	64		"	50.0		128	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 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 B1F2519 - EPA 3550B**

<b>Matrix Spike (B1F2519-MS1)</b>	<b>Source: Y106651-01</b>			Prepared: 06/25/2021 Analyzed: 06/26/2021						
Diesel (C10-C28)	631	50.0	mg/kg	500	ND	126	70-130			
Residual Range Organics (C28-C40)	659	200	"	500	52.8	121	70-130			
Surrogate: o-Terphenyl	66		"	50.0		132	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 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 B1F2519 - EPA 3550B**

<b>Matrix Spike Dup (B1F2519-MSD1)</b>	<b>Source: Y106651-01</b>			Prepared: 06/25/2021 Analyzed: 06/26/2021						
Diesel (C10-C28)	645	50.0	mg/kg	500	ND	129	70-130	2.30	35	
Residual Range Organics (C28-C40)	671	200	"	500	52.8	124	70-130	1.77	35	
Surrogate: o-Terphenyl	67		"	50.0		135	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 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 L561313 - 3550B**

<b>MSD (L 86845-MSD-L561313)</b>		<b>Source: 86845</b>			Prepared: 06/30/2021 Analyzed: 06/30/2021					
Benzo(b)fluoranthene	0.101	0.000138	mg/Kg	0.163	0.000406	61.9	30-130	2.9	30	
Benzo(a)pyrene	0.14	0.000133	"	0.163	<0.000133	85.8	30-130	2.1	30	
Benzo(a)anthracene	0.124	0.000441	"	0.163	<0.000441	76	30-130	2.4	30	
Anthracene	0.145	0.000426	"	0.163	<0.000426	88.9	30-130	1.3	30	
Acenaphthene	0.126	0.000431	"	0.163	<0.000431	77.3	30-130	0.7	30	
2-Methylnaphthalene	0.122	0.000542	"	0.163	<0.000542	74.8	30-130	0.8	30	
1-Methylnaphthalene	0.122	0.00048	"	0.163	<0.000480	74.8	30-130	0	30	
Fluoranthene	0.131	0.000529	"	0.163	<0.000529	80.3	30-130	0.7	30	
Chrysene	0.14	0.000256	"	0.163	<0.000256	85.8	30-130	1.4	30	
Benzo(k)fluoranthene	0.133	0.000486	"	0.163	<0.000486	81.5	30-130	5.1	30	
Pyrene	0.132	0.000387	"	0.163	<0.000387	80.9	30-130	0.7	30	
Naphthalene	0.116	0.000467	"	0.163	<0.000467	71.1	30-130	2.6	30	
Indeno(1,2,3-cd)pyrene	0.0842	0.000344	"	0.163	<0.000344	51.6	30-130	11.4	30	
Fluorene	0.134	0.000501	"	0.163	<0.000501	82.2	30-130	1.5	30	
Dibenz(a,h)anthracene	0.0994	0.000279	"	0.163	<0.000279	60.9	30-130	11.9	30	
Surrogate: 2-Fluorobiphenyl	75.8		"	0.327	224	75.8	33-115			
Surrogate: 4-Terphenyl-d14	85.3		"	0.327	253	85.3	33-122			
Surrogate: Nitrobenzene-d5	64.8		"	0.327	188	64.8	29-110			

<b>MS (L 86845-MS-L561313)</b>		<b>Source: 86845</b>			Prepared: 06/30/2021 Analyzed: 06/30/2021					
Benzo(k)fluoranthene	0.14	0.000486	mg/Kg	0.162	<0.000486	86.4	30-130			
Chrysene	0.138	0.000256	"	0.162	<0.000256	85.1	30-130			
Naphthalene	0.113	0.000467	"	0.162	<0.000467	69.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0944	0.000344	"	0.162	<0.000344	58.2	30-130			
Fluorene	0.132	0.000501	"	0.162	<0.000501	81.4	30-130			
Fluoranthene	0.132	0.000529	"	0.162	<0.000529	81.4	30-130			
Pyrene	0.131	0.000387	"	0.162	<0.000387	80.8	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 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 L561313 - 3550B**

MS (L 86845-MS-L561313)	Source: 86845			Prepared: 06/30/2021 Analyzed: 06/30/2021						
2-Methylnaphthalene	0.121	0.000542	mg/Kg	0.162	<0.000542	74.6	30-130			
Benzo(b)fluoranthene	0.104	0.000138	"	0.162	0.000406	64.1	30-130			
Benzo(a)pyrene	0.137	0.000133	"	0.162	<0.000133	84.5	30-130			
Benzo(a)anthracene	0.121	0.000441	"	0.162	<0.000441	74.6	30-130			
Anthracene	0.143	0.000426	"	0.162	<0.000426	88.2	30-130			
Acenaphthene	0.127	0.000431	"	0.162	<0.000431	78.3	30-130			
1-Methylnaphthalene	0.122	0.00048	"	0.162	<0.000480	75.3	30-130			
Dibenz(a,h)anthracene	0.112	0.000279	"	0.162	<0.000279	69.1	30-130			
Surrogate: Nitrobenzene-d5	63.6		"	0.325	188	63.6	29-110			
Surrogate: 4-Terphenyl-d14	88		"	0.325	253	88	33-122			
Surrogate: 2-Fluorobiphenyl	79		"	0.325	224	79	33-115			

LCS (LCS-L561313)	Prepared: 06/30/2021 Analyzed: 06/30/2021									
Dibenz(a,h)anthracene	0.0956	0.000279	mg/Kg	0.167		57.2	30-130			
Fluoranthene	0.129	0.000529	"	0.167		77.2	30-130			
Fluorene	0.131	0.000501	"	0.167		78.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0777	0.000344	"	0.167		46.5	30-130			
Naphthalene	0.11	0.000467	"	0.167		65.8	30-130			
Pyrene	0.127	0.000387	"	0.167		76	30-130			
Anthracene	0.139	0.000426	"	0.167		83.2	30-130			
Chrysene	0.136	0.000256	"	0.167		81.4	30-130			
Benzo(b)fluoranthene	0.105	0.000138	"	0.167		62.8	30-130			
Benzo(a)anthracene	0.12	0.000441	"	0.167		71.8	30-130			
Acenaphthene	0.124	0.000431	"	0.167		74.2	30-130			
2-Methylnaphthalene	0.117	0.000542	"	0.167		70	30-130			
1-Methylnaphthalene	0.118	0.00048	"	0.167		70.6	30-130			
Benzo(a)pyrene	0.131	0.000133	"	0.167		78.4	30-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulder #18-34 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 L561313 - 3550B**

**LCS (LCS-L561313)**

Prepared: 06/30/2021 Analyzed: 06/30/2021

Benzo(k)fluoranthene	0.13	0.000486	mg/Kg	0.167		77.8	30-130			
Surrogate: Nitrobenzene-d5	60.9		"	0.333		60.9	29-110			
Surrogate: 4-Terphenyl-d14	80.4		"	0.333		80.4	33-122			
Surrogate: 2-Fluorobiphenyl	75		"	0.333		75	33-115			

**LRB (LRB-L561313)**

Prepared: 06/30/2021 Analyzed: 06/30/2021

Pyrene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	56.4		"	0.333		56.4	29-110			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: 2-Fluorobiphenyl	67.2		"	0.333		67.2	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: 425857973  
Project: Noble - Boulter #18-34 Tank Battery

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**Notes and Definitions**

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

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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July 02, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Boulter #18-34 Tank  
Battery**

**Project Number - 425857973**

Attached are your analytical results for Noble - Boulter #18-34 Tank Battery received by Origins Laboratory, Inc. June 25, 2021. This project is associated with Origins project number Y106652-01.

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: 425857973  
Project: Noble - Boulter #18-34 Tank Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-SS-01@1'	Y106652-01	Soil	June 25, 2021 9:15	06/25/2021 14:05
TB-SS-02@1.5'	Y106652-02	Soil	June 25, 2021 9:20	06/25/2021 14:05
TB-SS-03@4'	Y106652-03	Soil	June 25, 2021 10:40	06/25/2021 14:05
TB-SS-08@1'	Y106652-04	Soil	June 25, 2021 11:20	06/25/2021 14:05

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: 425857973  
 Project: Noble - Boulder #18-34 Tank Battery

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

**Sample Receipt Checklist**

Origins Work Order: Y106652 Client: Eagle  
 Client Project ID: Boulder 18-34 TB

Checklist Completed by: SG Shipped Via: HD  
 Date/Time completed: 6/25/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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

Cooler Number/Temperature: 1166 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		Same Day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: jm (Project Manager) Date/Time Reviewed: 6-28-21

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: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-01@1'**  
**6/25/2021 9:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106652-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.200	mg/L	1	B1F2806	06/28/2021	06/28/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1F2519	06/25/2021	06/26/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 128 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1F2518	06/25/2021	06/28/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.3 % 70-130 " " "

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-01@1'**  
**6/25/2021 9:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106652-01 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	96.9 %		70-130			B1F25 18	06/25/2021	06/28/2021	
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	<b>1.89</b>			meq/L	1	[CALC]	06/29/2021	06/29/2021	
Magnesium	<b>0.206</b>			"	"	"	"	"	
Sodium	<b>0.0887</b>			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L561313	06/30/2021	06/30/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	<b>0.000349</b>	<b>0.000138</b>	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-01@1'**  
**6/25/2021 9:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y106652-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L561313	06/30/2021	06/30/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	65 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	66.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.08			pH Units	1	B1F2821	06/28/2021	06/29/2021	
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**SAR by 20B Saturated Paste**

SAR	0.0867			SAR	1	B1F2912	06/29/2021	06/29/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.228	0.00500		mmhos/cm	1	B1F2823	06/28/2021	06/29/2021	
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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: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-02@1.5'**  
**6/25/2021 9:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106652-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.199	mg/L	1	B1F2806	06/28/2021	06/28/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1F2519	06/25/2021	06/26/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 89.6 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1F2518	06/25/2021	06/28/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.0 % 70-130 " " "

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-02@1.5'**  
**6/25/2021 9:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106652-02 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	97.2 %		70-130			B1F25 18	06/25/2021	06/28/2021	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	<b>4.70</b>			meq/L	1	[CALC]	06/29/2021	06/29/2021	
Magnesium	<b>0.571</b>			"	"	"	"	"	
Sodium	<b>2.53</b>			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L561313	06/30/2021	06/30/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	<b>0.000316</b>	<b>0.000256</b>	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-02@1.5'**  
**6/25/2021 9:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y106652-02 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L561313	06/30/2021	06/30/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	66.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	68.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	56 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	7.94			pH Units	1	B1F2821	06/28/2021	06/29/2021	
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**SAR by 20B Saturated Paste**

SAR	1.56			SAR	1	B1F2912	06/29/2021	06/29/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.919		0.00500	mmhos/cm	1	B1F2823	06/28/2021	06/29/2021	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-03@4'**  
**6/25/2021 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106652-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.199	mg/L	1	B1F2806	06/28/2021	06/28/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1F2519	06/25/2021	06/26/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 81.3 % 50-150 " " "

**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1F2518	06/25/2021	06/28/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.0 % 70-130 " " "

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-03@4'**  
**6/25/2021 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106652-03 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	97.3 %		70-130			B1F25 18	06/25/2021	06/28/2021	
Surrogate: 4-Bromofluorobenzene	98.2 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	<b>1.84</b>			meq/L	1	[CALC]	06/29/2021	06/29/2021	
Magnesium	<b>0.648</b>			"	"	"	"	"	
Sodium	<b>0.324</b>			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L561313	06/30/2021	06/30/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	<b>0.0003</b>	<b>0.000138</b>	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-03@4'**  
**6/25/2021 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y106652-03 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L561313	06/30/2021	06/30/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	70.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	77.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61.5 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.38			pH Units	1	B1F2821	06/28/2021	06/29/2021	
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**SAR by 20B Saturated Paste**

SAR	0.290			SAR	1	B1F2912	06/29/2021	06/29/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.293	0.00500		mmhos/cm	1	B1F2823	06/28/2021	06/29/2021	
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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-08@1'**

**6/25/2021 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106652-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.460		0.200	mg/L	1	B1F2806	06/28/2021	06/28/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1F2519	06/25/2021	06/26/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: o-Terphenyl	113 %		50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1F2518	06/25/2021	06/28/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.4 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-08@1'**  
**6/25/2021 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106652-04 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	97.0 %		70-130			B1F25 18	06/25/2021	06/28/2021	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	<b>2.04</b>			meq/L	1	[CALC]	06/29/2021	06/29/2021	
Magnesium	<b>0.720</b>			"	"	"	"	"	
Sodium	<b>0.144</b>			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L561313	06/30/2021	06/30/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	<b>0.000606</b>	<b>0.000138</b>	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	<b>0.000331</b>	<b>0.000256</b>	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 Tank Battery

**TB-SS-08@1'**  
**6/25/2021 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y106652-04 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L561313	06/30/2021	06/30/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	<b>0.000391</b>	<b>0.000387</b>	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	63.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.7 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	<b>8.31</b>			pH Units	1	B1F2821	06/28/2021	06/29/2021	
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**SAR by 20B Saturated Paste**

SAR	<b>0.123</b>			SAR	1	B1F2912	06/29/2021	06/29/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.271</b>		0.00500	mmhos/cm	1	B1F2823	06/28/2021	06/29/2021	
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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: 425857973  
 Project: Noble - Boulter #18-34 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 B1F2518 - EPA 5030 (soil)**

**Blank (B1F2518-BLK1)**

Prepared: 06/25/2021 Analyzed: 06/25/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							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	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 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 B1F2518 - EPA 5030 (soil)**

**LCS (B1F2518-BS1)**

Prepared: 06/25/2021 Analyzed: 06/25/2021

1,2,4-Trimethylbenzene	0.0487	0.00200	mg/kg	0.0500		97.4	70-130			
Naphthalene	0.0476	0.0100	"	0.0500		95.1	70-130			
1,3,5-Trimethylbenzene	0.0485	0.00200	"	0.0500		97.0	70-130			
Benzene	0.0561	0.00200	"	0.0500		112	70-130			
Ethylbenzene	0.0476	0.00200	"	0.0500		95.2	70-130			
m,p-Xylene	0.0975	0.00400	"	0.100		97.5	70-130			
o-Xylene	0.0480	0.00200	"	0.0500		96.0	70-130			
Toluene	0.0480	0.00200	"	0.0500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 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 B1F2518 - EPA 5030 (soil)

Matrix Spike (B1F2518-MS1)	Source: Y106651-01		Prepared: 06/25/2021 Analyzed: 06/25/2021							
1,2,4-Trimethylbenzene	0.0418	0.00200	mg/kg	0.0500	ND	83.5	70-130			
Naphthalene	0.0378	0.0100	"	0.0500	0.000540	74.4	70-130			
1,3,5-Trimethylbenzene	0.0414	0.00200	"	0.0500	ND	82.7	70-130			
Benzene	0.0543	0.00200	"	0.0500	ND	109	70-130			
Ethylbenzene	0.0431	0.00200	"	0.0500	ND	86.2	70-130			
m,p-Xylene	0.0875	0.00400	"	0.100	ND	87.5	70-130			
o-Xylene	0.0436	0.00200	"	0.0500	ND	87.2	70-130			
Toluene	0.0451	0.00200	"	0.0500	ND	90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	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: 425857973  
 Project: Noble - Boulter #18-34 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 B1F2518 - EPA 5030 (soil)**

Matrix Spike Dup (B1F2518-MSD1)	Source: Y106651-01			Prepared: 06/25/2021 Analyzed: 06/25/2021						
1,2,4-Trimethylbenzene	0.0442	0.00200	mg/kg	0.0500	ND	88.4	70-130	5.63	20	
Naphthalene	0.0404	0.0100	"	0.0500	0.000540	79.8	70-130	6.80	20	
1,3,5-Trimethylbenzene	0.0439	0.00200	"	0.0500	ND	87.8	70-130	5.96	20	
Benzene	0.0577	0.00200	"	0.0500	ND	115	70-130	6.07	20	
Ethylbenzene	0.0454	0.00200	"	0.0500	ND	90.9	70-130	5.33	20	
m,p-Xylene	0.0927	0.00400	"	0.100	ND	92.7	70-130	5.75	20	
o-Xylene	0.0460	0.00200	"	0.0500	ND	92.0	70-130	5.31	20	
Toluene	0.0480	0.00200	"	0.0500	ND	96.0	70-130	6.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 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 B1F2519 - EPA 3550B</b>										
<b>Blank (B1F2519-BLK1)</b>										
					Prepared: 06/25/2021 Analyzed: 06/26/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	32		"	25.0		127	50-150			

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

Martin C Eckert III  
 Project Number: 425857973  
 Project: Noble - Boulter #18-34 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 B1F2519 - EPA 3550B**

**LCS (B1F2519-BS1)**

Prepared: 06/25/2021 Analyzed: 06/26/2021

Diesel (C10-C28)	576	50.0	mg/kg	500		115	70-130			
Residual Range Organics (C28-C40)	632	200	"	500		126	70-130			
Surrogate: o-Terphenyl	64		"	50.0		128	50-150			

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**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 B1F2519 - EPA 3550B**

<b>Matrix Spike (B1F2519-MS1)</b>	<b>Source: Y106651-01</b>			Prepared: 06/25/2021 Analyzed: 06/26/2021						
Diesel (C10-C28)	631	50.0	mg/kg	500	ND	126	70-130			
Residual Range Organics (C28-C40)	659	200	"	500	52.8	121	70-130			
Surrogate: o-Terphenyl	66		"	50.0		132	50-150			

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**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 B1F2519 - EPA 3550B**

<b>Matrix Spike Dup (B1F2519-MSD1)</b>	<b>Source: Y106651-01</b>		<b>Prepared: 06/25/2021 Analyzed: 06/26/2021</b>							
Diesel (C10-C28)	645	50.0	mg/kg	500	ND	129	70-130	2.30	35	
Residual Range Organics (C28-C40)	671	200	"	500	52.8	124	70-130	1.77	35	
Surrogate: o-Terphenyl	67		"	50.0		135	50-150			

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**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 L561313 - 3550B

MSD (L 86845-MSD-L561313)		Source: 86845			Prepared: 06/30/2021 Analyzed: 06/30/2021					
Chrysene	0.14	0.000256	mg/Kg	0.163	<0.000256	85.8	30-130	1.4	30	
1-Methylnaphthalene	0.122	0.00048	"	0.163	<0.000480	74.8	30-130	0	30	
2-Methylnaphthalene	0.122	0.000542	"	0.163	<0.000542	74.8	30-130	0.8	30	
Acenaphthene	0.126	0.000431	"	0.163	<0.000431	77.3	30-130	0.7	30	
Anthracene	0.145	0.000426	"	0.163	<0.000426	88.9	30-130	1.3	30	
Benzo(a)anthracene	0.124	0.000441	"	0.163	<0.000441	76	30-130	2.4	30	
Pyrene	0.132	0.000387	"	0.163	<0.000387	80.9	30-130	0.7	30	
Benzo(b)fluoranthene	0.101	0.000138	"	0.163	0.000406	61.9	30-130	2.9	30	
Naphthalene	0.116	0.000467	"	0.163	<0.000467	71.1	30-130	2.6	30	
Indeno(1,2,3-cd)pyrene	0.0842	0.000344	"	0.163	<0.000344	51.6	30-130	11.4	30	
Fluorene	0.134	0.000501	"	0.163	<0.000501	82.2	30-130	1.5	30	
Fluoranthene	0.131	0.000529	"	0.163	<0.000529	80.3	30-130	0.7	30	
Dibenz(a,h)anthracene	0.0994	0.000279	"	0.163	<0.000279	60.9	30-130	11.9	30	
Benzo(k)fluoranthene	0.133	0.000486	"	0.163	<0.000486	81.5	30-130	5.1	30	
Benzo(a)pyrene	0.14	0.000133	"	0.163	<0.000133	85.8	30-130	2.1	30	
Surrogate: 2-Fluorobiphenyl	75.8		"	0.327	224	75.8	33-115			
Surrogate: 4-Terphenyl-d14	85.3		"	0.327	253	85.3	33-122			
Surrogate: Nitrobenzene-d5	64.8		"	0.327	188	64.8	29-110			

MS (L 86845-MS-L561313)		Source: 86845			Prepared: 06/30/2021 Analyzed: 06/30/2021					
Benzo(b)fluoranthene	0.104	0.000138	mg/Kg	0.162	0.000406	64.1	30-130			
Dibenz(a,h)anthracene	0.112	0.000279	"	0.162	<0.000279	69.1	30-130			
Pyrene	0.131	0.000387	"	0.162	<0.000387	80.8	30-130			
Naphthalene	0.113	0.000467	"	0.162	<0.000467	69.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0944	0.000344	"	0.162	<0.000344	58.2	30-130			
Fluorene	0.132	0.000501	"	0.162	<0.000501	81.4	30-130			
Fluoranthene	0.132	0.000529	"	0.162	<0.000529	81.4	30-130			

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**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 L561313 - 3550B**

MS (L 86845-MS-L561313)	Source: 86845		Prepared: 06/30/2021 Analyzed: 06/30/2021							
2-Methylnaphthalene	0.121	0.000542	mg/Kg	0.162	<0.000542	74.6	30-130			
Benzo(a)pyrene	0.137	0.000133	"	0.162	<0.000133	84.5	30-130			
Benzo(a)anthracene	0.121	0.000441	"	0.162	<0.000441	74.6	30-130			
Anthracene	0.143	0.000426	"	0.162	<0.000426	88.2	30-130			
Acenaphthene	0.127	0.000431	"	0.162	<0.000431	78.3	30-130			
Benzo(k)fluoranthene	0.14	0.000486	"	0.162	<0.000486	86.4	30-130			
1-Methylnaphthalene	0.122	0.00048	"	0.162	<0.000480	75.3	30-130			
Chrysene	0.138	0.000256	"	0.162	<0.000256	85.1	30-130			
Surrogate: Nitrobenzene-d5	63.6		"	0.325	188	63.6	29-110			
Surrogate: 4-Terphenyl-d14	88		"	0.325	253	88	33-122			
Surrogate: 2-Fluorobiphenyl	79		"	0.325	224	79	33-115			

LCS (LCS-L561313)	Prepared: 06/30/2021 Analyzed: 06/30/2021									
Dibenz(a,h)anthracene	0.0956	0.000279	mg/Kg	0.167		57.2	30-130			
Fluoranthene	0.129	0.000529	"	0.167		77.2	30-130			
Fluorene	0.131	0.000501	"	0.167		78.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0777	0.000344	"	0.167		46.5	30-130			
Naphthalene	0.11	0.000467	"	0.167		65.8	30-130			
Pyrene	0.127	0.000387	"	0.167		76	30-130			
Acenaphthene	0.124	0.000431	"	0.167		74.2	30-130			
Chrysene	0.136	0.000256	"	0.167		81.4	30-130			
Benzo(b)fluoranthene	0.105	0.000138	"	0.167		62.8	30-130			
Benzo(a)pyrene	0.131	0.000133	"	0.167		78.4	30-130			
Anthracene	0.139	0.000426	"	0.167		83.2	30-130			
2-Methylnaphthalene	0.117	0.000542	"	0.167		70	30-130			
1-Methylnaphthalene	0.118	0.00048	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.12	0.000441	"	0.167		71.8	30-130			

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**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 L561313 - 3550B**

**LCS (LCS-L561313)**

Prepared: 06/30/2021 Analyzed: 06/30/2021

Benzo(k)fluoranthene	0.13	0.000486	mg/Kg	0.167		77.8	30-130			
Surrogate: Nitrobenzene-d5	60.9		"	0.333		60.9	29-110			
Surrogate: 4-Terphenyl-d14	80.4		"	0.333		80.4	33-122			
Surrogate: 2-Fluorobiphenyl	75		"	0.333		75	33-115			

**LRB (LRB-L561313)**

Prepared: 06/30/2021 Analyzed: 06/30/2021

Pyrene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	56.4		"	0.333		56.4	29-110			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: 2-Fluorobiphenyl	67.2		"	0.333		67.2	33-115			

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**Notes and Definitions**

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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