



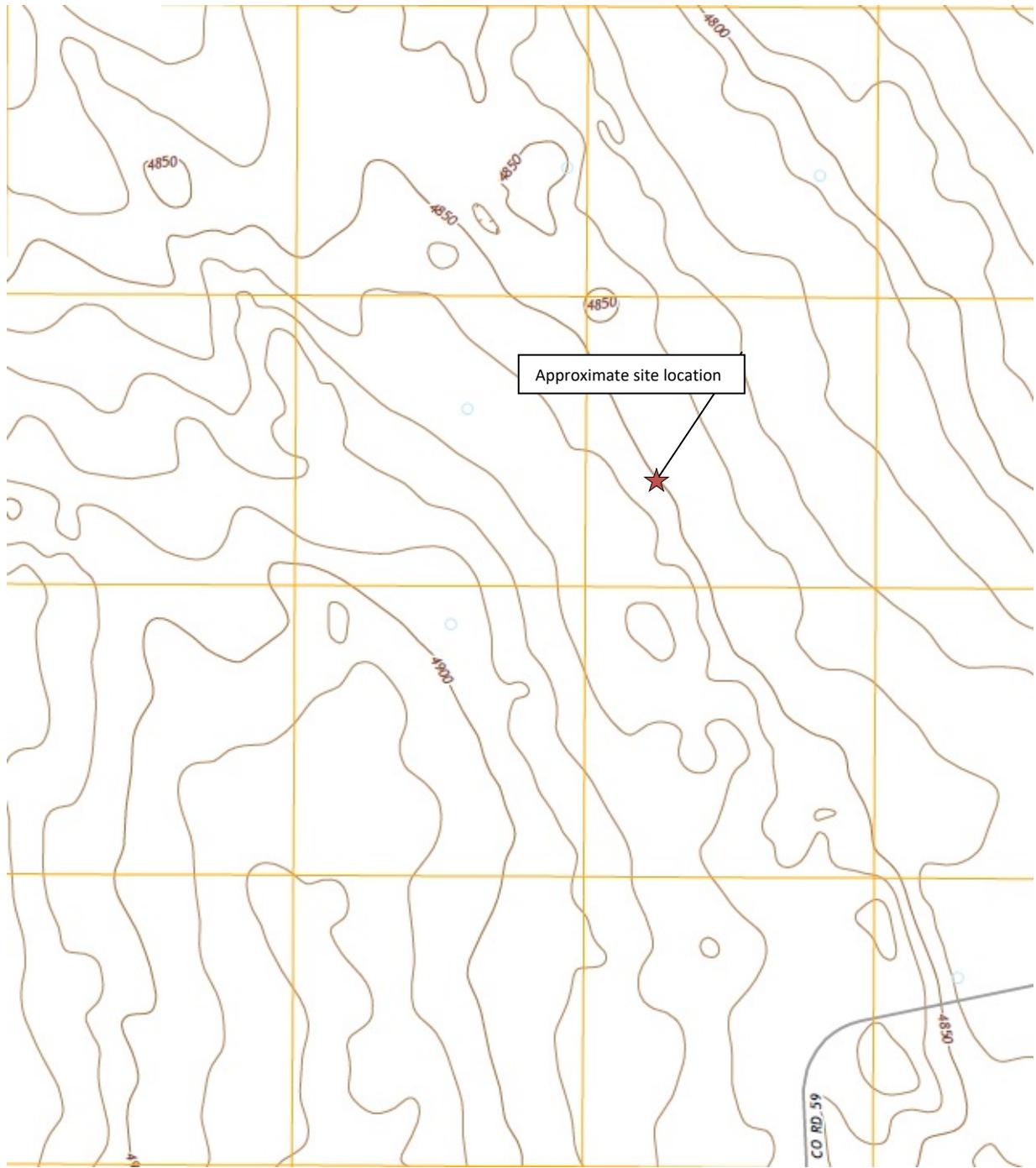
## **FIGURES**

**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**

HSR-Waste Services #10-26, 15-26 Tank Battery  
 Historical Release  
 40.193974 / -104.515736  
 SW¼ SE¼ SEC.26 T3N R64W 6PM  
 Weld County, Colorado  
 Location ID 330449  
 Remediation # 17316



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.

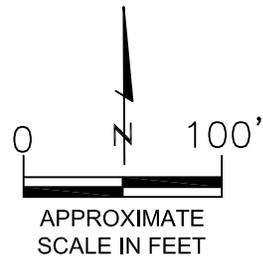
Source: USGS 7.5 Minute Topographic Map, Klug Ranch, CO Quadrangle 2019

**Figure 1**



**LEGEND**

- FORMER HSR-WASTE SERVICES #10-26, 15-26 TANK BATTERY (DECOMMISSIONED)
- APPROXIMATE WATER VAULT LOCATION (REMOVED)
- SEPARATOR CONTAINMENT AREA (DECOMMISSIONED)



**AERIAL SITE LOCATION MAP**  
 HSR-WASTE SERVICE #10-26, 15-26 TANK BATTERY  
 HISTORICAL RELEASE  
 40.193974 / -104.515736  
 SW1/4 SE1/4 SEC.26 T3N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 330449  
 REMEDIATION # 17316

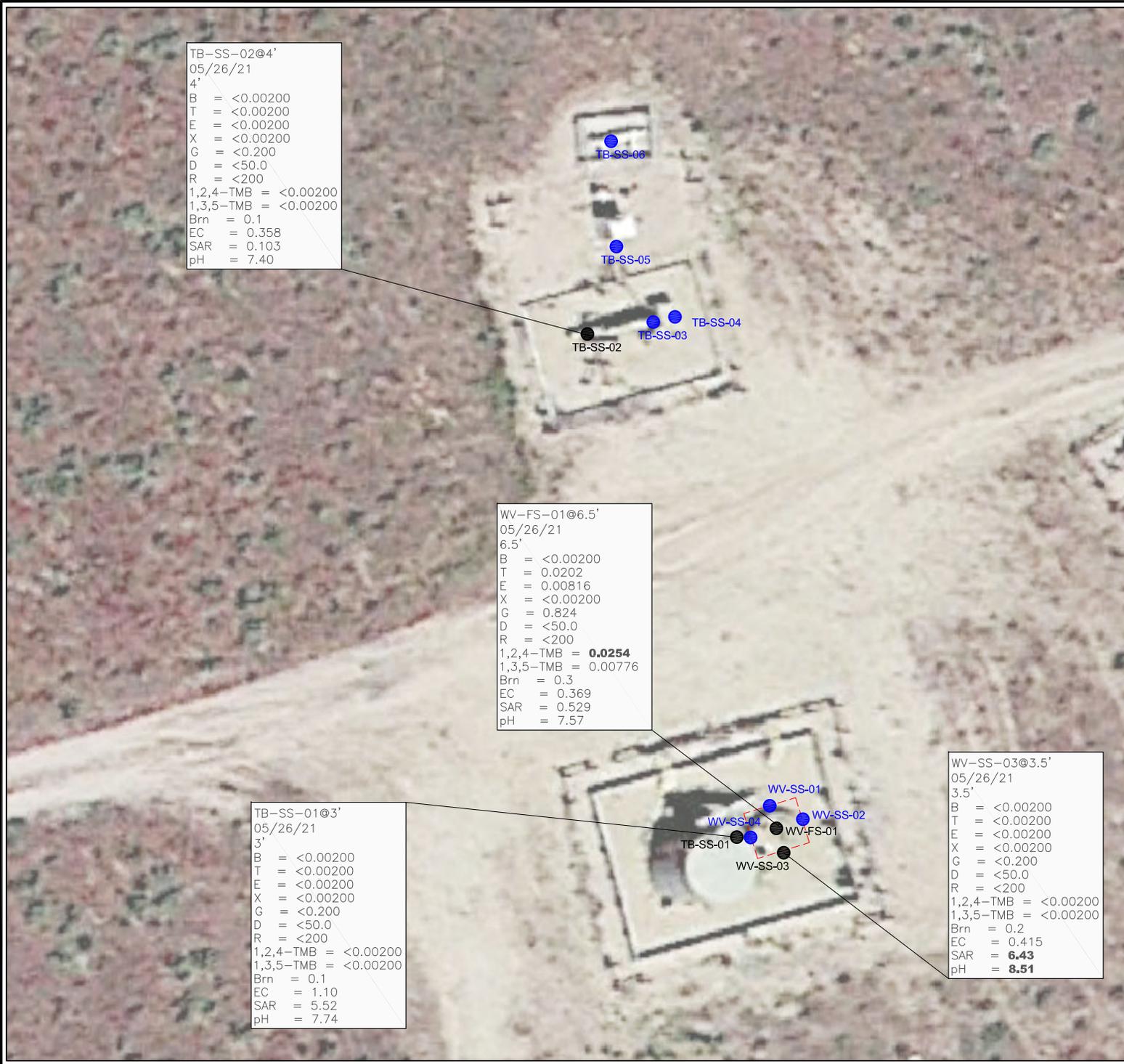
DATE: 06/04/21

FIG. NO.  
2

DRAWN BY:  
AMN



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.  
 4101 INCA STREET, DENVER, CO 80211  
 Ph: 303-433-0479 • F: 303-325-5449



TB-SS-02@4'  
05/26/21  
4'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <50.0  
R = <200  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn = 0.1  
EC = 0.358  
SAR = 0.103  
pH = 7.40

WV-FS-01@6.5'  
05/26/21  
6.5'  
B = <0.00200  
T = 0.0202  
E = 0.00816  
X = <0.00200  
G = 0.824  
D = <50.0  
R = <200  
1,2,4-TMB = **0.0254**  
1,3,5-TMB = 0.00776  
Brn = 0.3  
EC = 0.369  
SAR = 0.529  
pH = 7.57

TB-SS-01@3'  
05/26/21  
3'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <50.0  
R = <200  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn = 0.1  
EC = 1.10  
SAR = 5.52  
pH = 7.74

WV-SS-03@3.5'  
05/26/21  
3.5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <50.0  
R = <200  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn = 0.2  
EC = 0.415  
SAR = **6.43**  
pH = **8.51**

**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  
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)

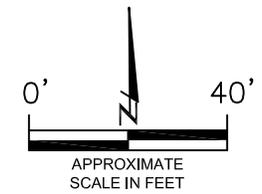
mg/kg = MILLIGRAMS PER KILOGRAM  
mg/L = MILLIGRAMS PER LITER

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



**SOIL ANALYTICAL MAP**  
HSR-WASTE SERVICE #10-26, 15-26 TANK BATTERY HISTORICAL RELEASE  
40.193974 / -104.515736  
SW1/4 SE1/4 SEC.26 T3N R64W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 330449  
REMIEDIATION # 17316

DATE:  
06/04/21  
DRAWN BY:  
AMN  
FIG.  
NO. 3

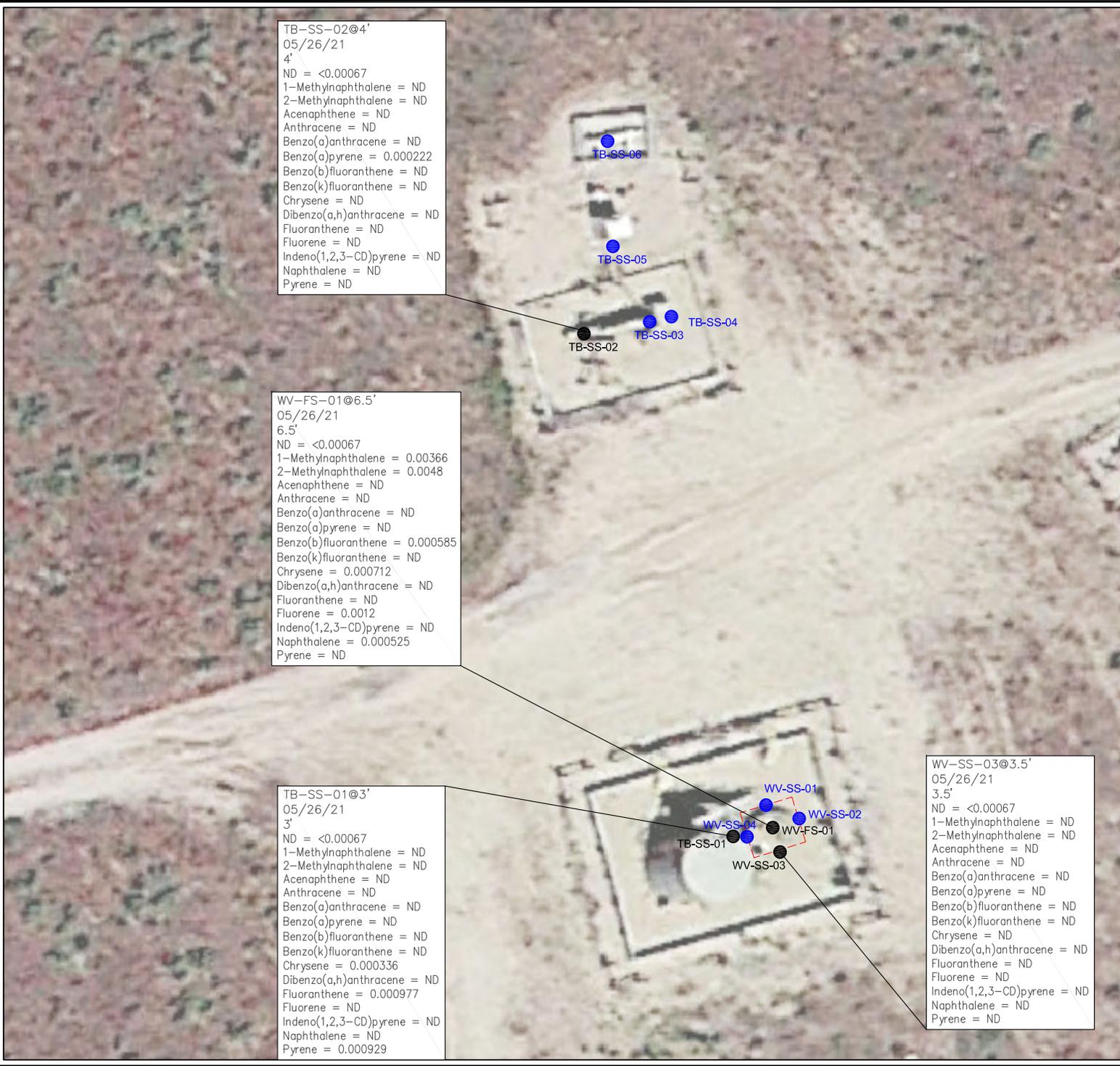
**EAGLE ENVIRONMENTAL CONSULTING, INC.**  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449

TB-SS-02@4'  
 05/26/21  
 4'  
 ND = <0.00067  
 1-Methylnaphthalene = ND  
 2-Methylnaphthalene = ND  
 Acenaphthene = ND  
 Anthracene = ND  
 Benzo(a)anthracene = ND  
 Benzo(a)pyrene = 0.000222  
 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@6.5'  
 05/26/21  
 6.5'  
 ND = <0.00067  
 1-Methylnaphthalene = 0.00366  
 2-Methylnaphthalene = 0.0048  
 Acenaphthene = ND  
 Anthracene = ND  
 Benzo(a)anthracene = ND  
 Benzo(a)pyrene = ND  
 Benzo(b)fluoranthene = 0.000585  
 Benzo(k)fluoranthene = ND  
 Chrysene = 0.000712  
 Dibenzo(a,h)anthracene = ND  
 Fluoranthene = ND  
 Fluorene = 0.0012  
 Indeno(1,2,3-CD)pyrene = ND  
 Naphthalene = 0.000525  
 Pyrene = ND

TB-SS-01@3'  
 05/26/21  
 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 = 0.000336  
 Dibenzo(a,h)anthracene = ND  
 Fluoranthene = 0.000977  
 Fluorene = ND  
 Indeno(1,2,3-CD)pyrene = ND  
 Naphthalene = ND  
 Pyrene = 0.000929

WV-SS-03@3.5'  
 05/26/21  
 3.5'  
 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



**LEGEND**

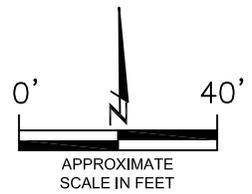
- APPROXIMATE ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR (PID)
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

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

NOTE:  
 CONCENTRATIONS PRESENTED IN mg/kg  
 mg/kg = MILLIGRAMS PER KILOGRAM  
 ND = NON-DETECT

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



**POLYCYCLIC AROMATIC HYDROCARBONS MAP**  
 HSR-WASTE SERVICE #10-26, 15-26 TANK BATTERY  
 HISTORICAL RELEASE  
 40.193974 / -104.515736  
 SW1/4 SE1/4 SEC.26 T3N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 330449  
 REMEDIATION # 17316

DATE:  
 06/04/21  
 DRAWN BY:  
 AMN  
 FIG.  
 NO. 4

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



## **ATTACHMENT A**

### **Photo Log**

# HSR-Waste Services #10-26, 15-26 Tank Battery Remediation # 17316

Closure Assessment

May 2021



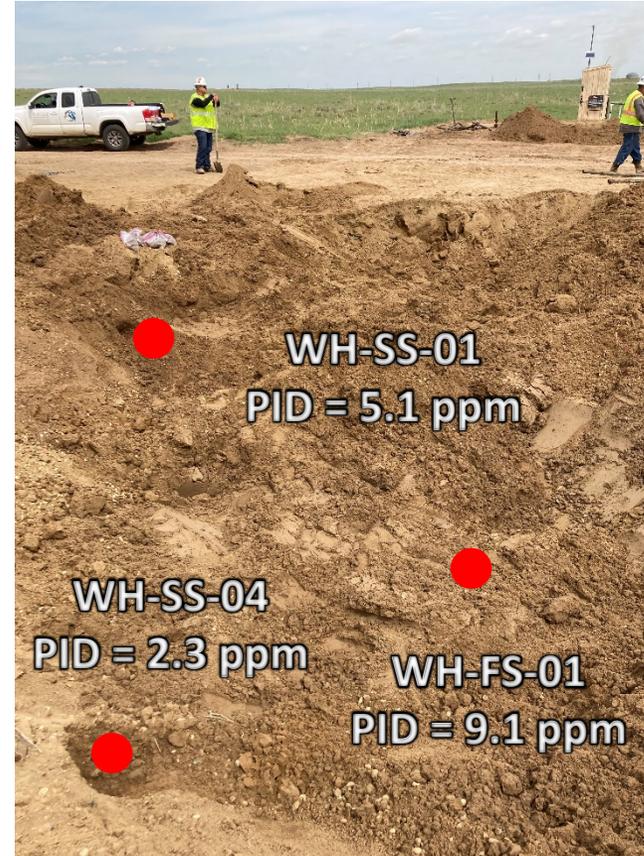
**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



## Water Vault Excavation – 05/26/21



Looking southeast  
No petroleum hydrocarbon staining or odor observed

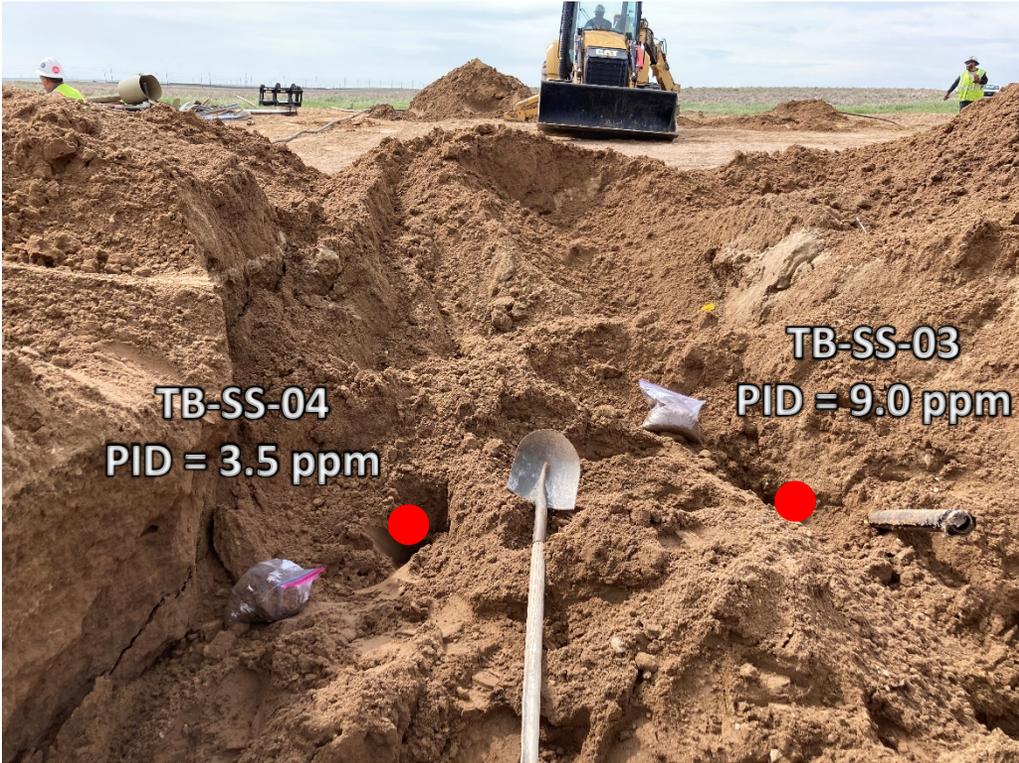


Looking northeast  
No petroleum hydrocarbon staining or odor observed

# Tank Battery Soil Samples – 05/26/21

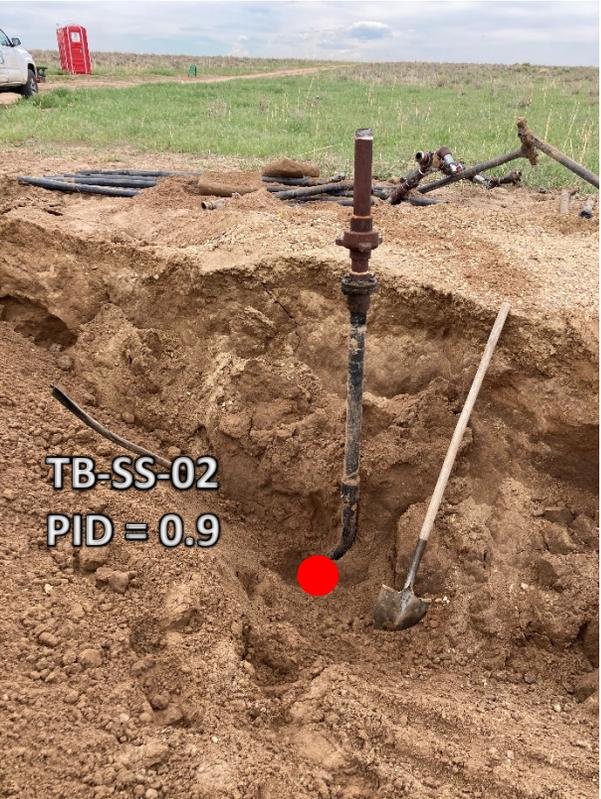


Looking west at former location production tank  
No petroleum hydrocarbon staining or odor observed

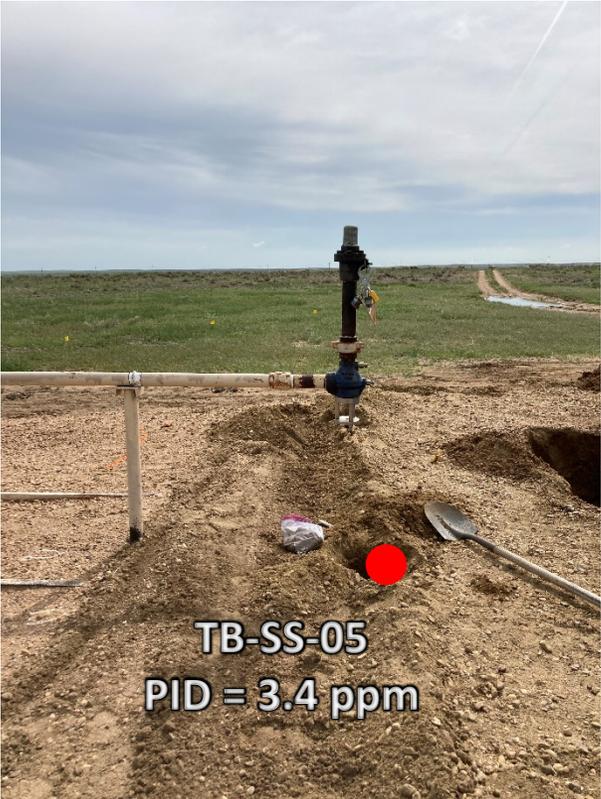


Looking south at former dumpline to separator connections  
No petroleum hydrocarbon staining or odor observed

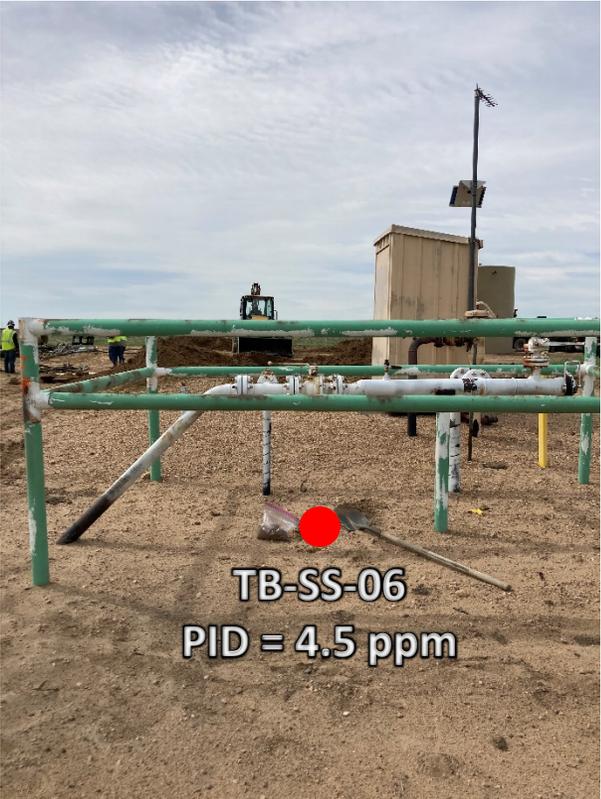
# Tank Battery Soil Samples – 05/26/21



Looking west at flowline to separator connection  
No petroleum hydrocarbon staining or odor observed



Looking east at meter house connection  
No petroleum hydrocarbon staining or odor observed



Looking south at above ground gas manifold  
No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Reports**

June 03, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - HSR-Waste Services  
#10-26, 15-26 Tank Batt**

**Project Number - 425857702**

Attached are your analytical results for Noble - HSR-Waste Services #10-26, 15-26 Tank Batt received by Origins Laboratory, Inc. May 26, 2021. This project is associated with Origins project number Y105506-01.

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: 425857702  
Project: Noble - HSR-Waste Services #10-26,  
15-26 Tank Batt

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-SS-01@3'	Y105506-01	Soil	May 26, 2021 10:40	05/26/2021 13:30
TB-SS-02@4'	Y105506-02	Soil	May 26, 2021 10:57	05/26/2021 13:30

Origins Laboratory, Inc.



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



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

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y1055006

Client: Eagle  
 Client Project ID: Noble - HSR - Waste Services

Checklist Completed by: Jm

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5-26-21

Airbill #: 111a

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

Cooler Number/Temperature: 1 / 0.1 °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)				
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 bubbles) 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: Jm (Project Manager)

Date/Time Reviewed: 5-27-21

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: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**TB-SS-01@3'**  
**5/26/2021 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y105506-01 (Soil)**

**Boron (Sorbitol)**

Boron	0.1			mg/L	1	[none]	05/28/2021	06/02/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1E2608	05/26/2021	05/28/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.5 %		50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1E2704	05/27/2021	05/27/2021	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	93.8 %		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: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**TB-SS-01@3'**  
**5/26/2021 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y105506-01 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	98.6 %		70-130			B1E27 04	05/27/2021	05/27/2021	
Surrogate: 4-Bromofluorobenzene	98.9 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	<b>2.28</b>			meq/L	1	[CALC]	05/28/2021	05/28/2021	
Magnesium	<b>0.950</b>			"	"	"	"	"	
Sodium	<b>7.02</b>			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555878	06/01/2021	06/01/2021	
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>0.000336</b>	<b>0.000256</b>	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	<b>0.000977</b>	<b>0.000529</b>	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: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**TB-SS-01@3'**

**5/26/2021 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y105506-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L555878	06/01/2021	06/01/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	<b>0.000929</b>	<b>0.000387</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	64.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.3 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	7.74			pH Units	1	B1E2807	05/28/2021	05/28/2021	
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**SAR by 20B Saturated Paste**

SAR	5.52			SAR	1	B1E2813	05/28/2021	05/28/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	1.10		0.00500	mmhos/cm	1	B1E2811	05/28/2021	05/28/2021	
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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: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**TB-SS-02@4'**  
**5/26/2021 10:57:00AM**

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

**AAL, Inc.**  
**Y105506-02 (Soil)**

**Boron (Sorbitol)**

Boron	0.1			mg/L	1	[none]	05/28/2021	06/02/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1E2608	05/26/2021	05/28/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.8 %		50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1E2704	05/27/2021	05/27/2021	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	93.7 %		70-130			"	"	"	
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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**TB-SS-02@4'**  
**5/26/2021 10:57:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y105506-02 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	99.0 %		70-130			B1E27 04	05/27/2021	05/27/2021	
Surrogate: 4-Bromofluorobenzene	99.9 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	<b>2.28</b>			meq/L	1	[CALC]	05/28/2021	05/28/2021	
Magnesium	<b>0.831</b>			"	"	"	"	"	
Sodium	<b>0.129</b>			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555878	06/01/2021	06/01/2021	
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	<b>0.000222</b>	<b>0.000133</b>	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
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	"	"	"	"	"	

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 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**TB-SS-02@4'**  
**5/26/2021 10:57:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y105506-02 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L555878	06/01/2021	06/01/2021	
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	64.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.5 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	7.40			pH Units	1	B1E2807	05/28/2021	05/28/2021	
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**SAR by 20B Saturated Paste**

SAR	0.103			SAR	1	B1E2813	05/28/2021	05/28/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.358	0.00500		mmhos/cm	1	B1E2811	05/28/2021	05/28/2021	
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Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1E2608 - EPA 3550B</b>										
<b>Blank (B1E2608-BLK1)</b>										
					Prepared: 05/26/2021 Analyzed: 05/26/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	25.0		79.3	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 B1E2608 - EPA 3550B**

**LCS (B1E2608-BS1)**

Prepared: 05/26/2021 Analyzed: 05/26/2021

Diesel (C10-C28)	775	50.0	mg/kg	1000		77.5	70-130			
Residual Range Organics (C28-C40)	743	200	"	1000		74.3	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.7	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 B1E2608 - EPA 3550B**

<b>Matrix Spike (B1E2608-MS1)</b>	<b>Source: Y105512-01</b>			<b>Prepared: 05/26/2021 Analyzed: 05/26/2021</b>						
Diesel (C10-C28)	809	50.0	mg/kg	1000	ND	80.9	70-130			
Residual Range Organics (C28-C40)	788	200	"	1000	ND	78.8	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.4	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 B1E2608 - EPA 3550B**

<b>Matrix Spike Dup (B1E2608-MSD1)</b>	<b>Source: Y105512-01</b>		<b>Prepared: 05/26/2021 Analyzed: 05/26/2021</b>							
Diesel (C10-C28)	785	50.0	mg/kg	1000	ND	78.5	70-130	2.99	35	
Residual Range Organics (C28-C40)	758	200	"	1000	ND	75.8	70-130	3.77	35	
<i>Surrogate: o-Terphenyl</i>	41		"	50.0		82.6	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 B1E2704 - EPA 5030 (soil)**

**Blank (B1E2704-BLK1)**

Prepared: 05/27/2021 Analyzed: 05/27/2021

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
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	94.4		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.0		70-130			

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 15-26 Tank Batt

**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 B1E2704 - EPA 5030 (soil)**

**LCS (B1E2704-BS1)**

Prepared: 05/27/2021 Analyzed: 05/27/2021

1,2,4-Trimethylbenzene	0.0524	0.00200	mg/kg	0.0500		105	70-130			
Naphthalene	0.0527	0.0100	"	0.0500		105	70-130			
1,3,5-Trimethylbenzene	0.0522	0.00200	"	0.0500		104	70-130			
Benzene	0.0475	0.00200	"	0.0500		94.9	70-130			
Ethylbenzene	0.0511	0.00200	"	0.0500		102	70-130			
m,p-Xylene	0.102	0.00400	"	0.100		102	70-130			
o-Xylene	0.0498	0.00200	"	0.0500		99.6	70-130			
Toluene	0.0474	0.00200	"	0.0500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 15-26 Tank Batt

**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 B1E2704 - EPA 5030 (soil)**

Matrix Spike (B1E2704-MS1)	Source: Y105506-01			Prepared: 05/27/2021 Analyzed: 05/27/2021						
1,2,4-Trimethylbenzene	0.0489	0.00200	mg/kg	0.0500	ND	97.8	70-130			
Naphthalene	0.0455	0.0100	"	0.0500	0.00260	85.8	70-130			
1,3,5-Trimethylbenzene	0.0489	0.00200	"	0.0500	ND	97.8	70-130			
Benzene	0.0492	0.00200	"	0.0500	ND	98.4	70-130			
Ethylbenzene	0.0477	0.00200	"	0.0500	ND	95.3	70-130			
m,p-Xylene	0.0957	0.00400	"	0.100	ND	95.7	70-130			
o-Xylene	0.0463	0.00200	"	0.0500	0.000760	91.1	70-130			
Toluene	0.0485	0.00200	"	0.0500	ND	96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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 15-26 Tank Batt

**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 B1E2704 - EPA 5030 (soil)

Matrix Spike Dup (B1E2704-MSD1)	Source: Y105506-01			Prepared: 05/27/2021 Analyzed: 05/27/2021						
1,2,4-Trimethylbenzene	0.0554	0.00200	mg/kg	0.0500	ND	111	70-130	12.5	20	
Naphthalene	0.0538	0.0100	"	0.0500	0.00260	102	70-130	16.8	20	
1,3,5-Trimethylbenzene	0.0558	0.00200	"	0.0500	ND	112	70-130	13.2	20	
Benzene	0.0525	0.00200	"	0.0500	ND	105	70-130	6.45	20	
Ethylbenzene	0.0537	0.00200	"	0.0500	ND	107	70-130	12.0	20	
m,p-Xylene	0.108	0.00400	"	0.100	ND	108	70-130	12.2	20	
o-Xylene	0.0525	0.00200	"	0.0500	0.000760	103	70-130	12.5	20	
Toluene	0.0515	0.00200	"	0.0500	ND	103	70-130	6.00	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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 Project Number: 425857702  
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 15-26 Tank Batt

**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 L555878 - 3550B

MSD (L 90809-MSD-L555878)	Source: 90809		Prepared: 06/01/2021 Analyzed: 06/01/2021							
Benzo(k)fluoranthene	0.0707	0.000486	mg/Kg	0.165	0.00205	41.6	30-130	38.1	30	
Benzo(a)anthracene	0.106	0.000441	"	0.165	0.00428	61.6	30-130	31.7	30	
Anthracene	0.0917	0.000426	"	0.165	<0.000426	55.5	30-130	35.2	30	
Acenaphthene	0.0792	0.000431	"	0.165	<0.000431	48	30-130	28.9	30	
2-Methylnaphthalene	0.0852	0.000542	"	0.165	0.00197	50.4	30-130	33.9	30	
1-Methylnaphthalene	0.0848	0.00048	"	0.165	0.00154	50.4	30-130	33.5	30	
Pyrene	0.103	0.000387	"	0.165	0.00813	57.4	30-130	27.6	30	
Naphthalene	0.0762	0.000467	"	0.165	0.000671	45.7	30-130	34.5	30	
Indeno(1,2,3-cd)pyrene	0.0757	0.000344	"	0.165	0.00251	44.3	30-130	28.6	30	
Fluorene	0.0852	0.000501	"	0.165	<0.000501	51.6	30-130	27.1	30	
Fluoranthene	0.104	0.000529	"	0.165	0.00506	59.9	30-130	28	30	
Dibenz(a,h)anthracene	0.0762	0.000279	"	0.165	0.000931	45.6	30-130	30.8	30	
Chrysene	0.0942	0.000256	"	0.165	0.00639	53.2	30-130	29.6	30	
Benzo(a)pyrene	0.117	0.000133	"	0.165	0.00677	66.8	30-130	28.5	30	
Benzo(b)fluoranthene	0.0836	0.000138	"	0.165	0.00631	46.8	30-130	29.9	30	
Surrogate: 4-Terphenyl-d14	56.9		"	0.33	194	56.9	33-122			
Surrogate: 2-Fluorobiphenyl	46.3		"	0.33	167	46.3	33-115			
Surrogate: Nitrobenzene-d5	44.5		"	0.33	157	44.5	29-110			

MS (L 90809-MS-L555878)	Source: 90809		Prepared: 06/01/2021 Analyzed: 06/01/2021							
Benzo(a)pyrene	0.156	0.000133	mg/Kg	0.166	0.00677	89.8	30-130			
Chrysene	0.127	0.000256	"	0.166	0.00639	72.6	30-130			
Pyrene	0.136	0.000387	"	0.166	0.00813	77	30-130			
Naphthalene	0.108	0.000467	"	0.166	0.000671	64.6	30-130			
Indeno(1,2,3-cd)pyrene	0.101	0.000344	"	0.166	0.00251	59.3	30-130			
Fluorene	0.112	0.000501	"	0.166	<0.000501	67.4	30-130			
Fluoranthene	0.138	0.000529	"	0.166	0.00506	80	30-130			

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 15-26 Tank Batt

**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 L555878 - 3550B**

MS (L 90809-MS-L555878)	Source: 90809		Prepared: 06/01/2021 Analyzed: 06/01/2021							
Dibenz(a,h)anthracene	0.104	0.000279	mg/Kg	0.166	0.000931	62	30-130			
Benzo(b)fluoranthene	0.113	0.000138	"	0.166	0.00631	64.2	30-130			
Benzo(a)anthracene	0.146	0.000441	"	0.166	0.00428	85.3	30-130			
Anthracene	0.131	0.000426	"	0.166	<0.000426	78.9	30-130			
Acenaphthene	0.106	0.000431	"	0.166	<0.000431	63.8	30-130			
2-Methylnaphthalene	0.12	0.000542	"	0.166	0.00197	71.1	30-130			
Benzo(k)fluoranthene	0.104	0.000486	"	0.166	0.00205	61.4	30-130			
1-Methylnaphthalene	0.119	0.00048	"	0.166	0.00154	70.7	30-130			
Surrogate: Nitrobenzene-d5	63.8		"	0.332	157	63.8	29-110			
Surrogate: 2-Fluorobiphenyl	66.5		"	0.332	167	66.5	33-115			
Surrogate: 4-Terphenyl-d14	76.5		"	0.332	194	76.5	33-122			

LCS (LCS-L555878)	Prepared: 06/01/2021 Analyzed: 06/01/2021									
Dibenz(a,h)anthracene	0.103	0.000279	mg/Kg	0.167		61.6	30-130			
Fluoranthene	0.135	0.000529	"	0.167		80.8	30-130			
Pyrene	0.128	0.000387	"	0.167		76.6	30-130			
Fluorene	0.123	0.000501	"	0.167		73.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0945	0.000344	"	0.167		56.5	30-130			
Chrysene	0.125	0.000256	"	0.167		74.8	30-130			
Naphthalene	0.114	0.000467	"	0.167		68.2	30-130			
Benzo(b)fluoranthene	0.104	0.000138	"	0.167		62.2	30-130			
Benzo(a)pyrene	0.151	0.000133	"	0.167		90.4	30-130			
Benzo(a)anthracene	0.139	0.000441	"	0.167		83.2	30-130			
Acenaphthene	0.112	0.000431	"	0.167		67	30-130			
2-Methylnaphthalene	0.119	0.000542	"	0.167		71.2	30-130			
1-Methylnaphthalene	0.119	0.00048	"	0.167		71.2	30-130			
Anthracene	0.125	0.000426	"	0.167		74.8	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: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**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 L555878 - 3550B</b>										
<b>LCS (LCS-L555878)</b>										
					Prepared: 06/01/2021 Analyzed: 06/01/2021					
Benzo(k)fluoranthene	0.112	0.000486	mg/Kg	0.167		67	30-130			
Surrogate: Nitrobenzene-d5	71.7		"	0.333		71.7	29-110			
Surrogate: 4-Terphenyl-d14	81.9		"	0.333		81.9	33-122			
Surrogate: 2-Fluorobiphenyl	76.2		"	0.333		76.2	33-115			
<b>LRB (LRB-L555878)</b>										
					Prepared: 06/01/2021 Analyzed: 06/01/2021					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	58.5		"	0.333		58.5	29-110			
Surrogate: 4-Terphenyl-d14	67.5		"	0.333		67.5	33-122			
Surrogate: 2-Fluorobiphenyl	62.1		"	0.333		62.1	33-115			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425857702  
Project: Noble - HSR-Waste Services #10-26,  
15-26 Tank Batt

### 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.

Origins Laboratory, Inc.



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June 03, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - HSR-Waste Services  
#10-26, 15-26 Tank Batt**

**Project Number - 425857702**

Attached are your analytical results for Noble - HSR-Waste Services #10-26, 15-26 Tank Batt received by Origins Laboratory, Inc. May 26, 2021. This project is associated with Origins project number Y105507-01.

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: 425857702  
Project: Noble - HSR-Waste Services #10-26,  
15-26 Tank Batt

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WV-SS-03@3.5'	Y105507-01	Soil	May 26, 2021 10:30	05/26/2021 13:30
WV-FS-01@6.5'	Y105507-02	Soil	May 26, 2021 10:36	05/26/2021 13:30

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

Origins Laboratory

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

Origins Work Order: Y105507 Sample Receipt Checklist

Client: Eagle  
 Client Project ID: Noble - HSR - Waste Services

Checklist Completed by: Jm  
 Date/time completed: 5-27-21  
 Shipped Via: HQ  
 Airbill #: 1111  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Cooler Number/Temperature: 10.1 °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> ?	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 Jm (Project Manager) Date/Time Reviewed 5-27-21

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**WV-SS-03@3.5'**

**5/26/2021 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y105507-01 (Soil)**

**Boron (Sorbitol)**

Boron	0.2			mg/L	1	[none]	05/28/2021	06/02/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1E2608	05/26/2021	05/28/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.3 %		50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1E2704	05/27/2021	05/28/2021	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	98.6 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**WV-SS-03@3.5'**  
**5/26/2021 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y105507-01 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	97.1 %		70-130			B1E27 04	05/27/2021	05/28/2021	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	1.07			meq/L	1	[CALC]	05/28/2021	05/28/2021	
Magnesium	0.444			"	"	"	"	"	
Sodium	5.59			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L556088	06/01/2021	06/02/2021	
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	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**WV-SS-03@3.5'**

**5/26/2021 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y105507-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L556088	06/01/2021	06/02/2021	
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	52.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.51			pH Units	1	B1E2807	05/28/2021	05/28/2021	
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**SAR by 20B Saturated Paste**

SAR	6.43			SAR	1	B1E2813	05/28/2021	05/28/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.415		0.00500	mmhos/cm	1	B1E2811	05/28/2021	05/28/2021	
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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: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**WV-FS-01@6.5'**  
**5/26/2021 10:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y105507-02 (Soil)**

**Boron (Sorbitol)**

Boron	0.3			mg/L	1	[none]	05/28/2021	06/02/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		50.0	mg/kg	1	B1E2608	05/26/2021	05/28/2021	U
Residual Range Organics (C28-C40)	ND		200	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.4 %		50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	0.0254		0.00200	mg/kg	1	B1E2704	05/27/2021	05/28/2021	
1,3,5-Trimethylbenzene	0.00776		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00816		0.00200	"	"	"	"	"	
Toluene	0.0202		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.824		0.200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %		70-130			"	"	"	
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Surrogate: Toluene-d8	97.9 %		70-130			"	"	"	
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 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**WV-FS-01@6.5'**  
**5/26/2021 10:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y105507-02 (Soil)**

**GBTEX+TMBs**

Surrogate: 4-Bromofluorobenzene	100 %		70-130			B1E27 04	05/27/2021	05/28/2021	
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**Metals by Saturated Paste**

Calcium	1.97			meq/L	1	[CALC]	05/28/2021	05/28/2021	
Magnesium	0.811			"	"	"	"	"	
Sodium	0.624			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00366	0.00048	0.00067	mg/Kg	1	L556088	06/01/2021	06/02/2021	
2-Methylnaphthalene	0.0048	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	0.000585	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.000712	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.0012	0.000501	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**WV-FS-01@6.5'**  
**5/26/2021 10:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y105507-02 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.000525	0.000467	0.00067	mg/Kg	1	L556088	06/01/2021	06/02/2021	J
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	59.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.7 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	7.57			pH Units	1	B1E2807	05/28/2021	05/28/2021	
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**SAR by 20B Saturated Paste**

SAR	0.529			SAR	1	B1E2813	05/28/2021	05/28/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.369		0.00500	mmhos/cm	1	B1E2811	05/28/2021	05/28/2021	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1E2608 - EPA 3550B</b>										
<b>Blank (B1E2608-BLK1)</b>										
					Prepared: 05/26/2021 Analyzed: 05/26/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	25.0		79.3	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**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 B1E2608 - EPA 3550B**

**LCS (B1E2608-BS1)**

Prepared: 05/26/2021 Analyzed: 05/26/2021

Diesel (C10-C28)	775	50.0	mg/kg	1000		77.5	70-130			
Residual Range Organics (C28-C40)	743	200	"	1000		74.3	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.7	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**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 B1E2608 - EPA 3550B**

<b>Matrix Spike (B1E2608-MS1)</b>	<b>Source: Y105512-01</b>			Prepared: 05/26/2021 Analyzed: 05/26/2021						
Diesel (C10-C28)	809	50.0	mg/kg	1000	ND	80.9	70-130			
Residual Range Organics (C28-C40)	788	200	"	1000	ND	78.8	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.4	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: 425857702  
 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**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 B1E2608 - EPA 3550B**

<b>Matrix Spike Dup (B1E2608-MSD1)</b>	<b>Source: Y105512-01</b>			<b>Prepared: 05/26/2021 Analyzed: 05/26/2021</b>						
Diesel (C10-C28)	785	50.0	mg/kg	1000	ND	78.5	70-130	2.99	35	
Residual Range Organics (C28-C40)	758	200	"	1000	ND	75.8	70-130	3.77	35	
<i>Surrogate: o-Terphenyl</i>	41		"	50.0		82.6	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 B1E2704 - EPA 5030 (soil)**

**Blank (B1E2704-BLK1)**

Prepared: 05/27/2021 Analyzed: 05/27/2021

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
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	94.4		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.0		70-130			

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 15-26 Tank Batt

**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 B1E2704 - EPA 5030 (soil)**

**LCS (B1E2704-BS1)**

Prepared: 05/27/2021 Analyzed: 05/27/2021

1,2,4-Trimethylbenzene	0.0524	0.00200	mg/kg	0.0500		105	70-130			
Naphthalene	0.0527	0.0100	"	0.0500		105	70-130			
1,3,5-Trimethylbenzene	0.0522	0.00200	"	0.0500		104	70-130			
Benzene	0.0475	0.00200	"	0.0500		94.9	70-130			
Ethylbenzene	0.0511	0.00200	"	0.0500		102	70-130			
m,p-Xylene	0.102	0.00400	"	0.100		102	70-130			
o-Xylene	0.0498	0.00200	"	0.0500		99.6	70-130			
Toluene	0.0474	0.00200	"	0.0500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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**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 B1E2704 - EPA 5030 (soil)

Matrix Spike (B1E2704-MS1)	Source: Y105506-01			Prepared: 05/27/2021 Analyzed: 05/27/2021						
1,2,4-Trimethylbenzene	0.0489	0.00200	mg/kg	0.0500	ND	97.8	70-130			
Naphthalene	0.0455	0.0100	"	0.0500	0.00260	85.8	70-130			
1,3,5-Trimethylbenzene	0.0489	0.00200	"	0.0500	ND	97.8	70-130			
Benzene	0.0492	0.00200	"	0.0500	ND	98.4	70-130			
Ethylbenzene	0.0477	0.00200	"	0.0500	ND	95.3	70-130			
m,p-Xylene	0.0957	0.00400	"	0.100	ND	95.7	70-130			
o-Xylene	0.0463	0.00200	"	0.0500	0.000760	91.1	70-130			
Toluene	0.0485	0.00200	"	0.0500	ND	96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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 15-26 Tank Batt

**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 B1E2704 - EPA 5030 (soil)

Matrix Spike Dup (B1E2704-MSD1)	Source: Y105506-01			Prepared: 05/27/2021 Analyzed: 05/27/2021						
1,2,4-Trimethylbenzene	0.0554	0.00200	mg/kg	0.0500	ND	111	70-130	12.5	20	
Naphthalene	0.0538	0.0100	"	0.0500	0.00260	102	70-130	16.8	20	
1,3,5-Trimethylbenzene	0.0558	0.00200	"	0.0500	ND	112	70-130	13.2	20	
Benzene	0.0525	0.00200	"	0.0500	ND	105	70-130	6.45	20	
Ethylbenzene	0.0537	0.00200	"	0.0500	ND	107	70-130	12.0	20	
m,p-Xylene	0.108	0.00400	"	0.100	ND	108	70-130	12.2	20	
o-Xylene	0.0525	0.00200	"	0.0500	0.000760	103	70-130	12.5	20	
Toluene	0.0515	0.00200	"	0.0500	ND	103	70-130	6.00	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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 Project: Noble - HSR-Waste Services #10-26,  
 15-26 Tank Batt

**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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**Classical Chemistry Parameters - 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 B1E2813 - Default Prep Metals**

**Blank (B1E2813-BLK1)**

Prepared: 05/28/2021 Analyzed: 05/28/2021

SAR	0.00		SAR
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 15-26 Tank Batt

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1E2807 - NO PREP</b>										
<b>Duplicate (B1E2807-DUP1)</b>		<b>Source: Y105506-01</b>			Prepared: 05/28/2021 Analyzed: 05/28/2021					
pH	7.91		pH Units		7.74			2.22	25	
<b>Batch B1E2811 - NO PREP</b>										
<b>Blank (B1E2811-BLK1)</b>					Prepared: 05/28/2021 Analyzed: 05/28/2021					
Specific Conductance (EC)	0.00280	0.00500	mmhos/cm							
<b>Duplicate (B1E2811-DUP1)</b>		<b>Source: Y105506-01</b>			Prepared: 05/28/2021 Analyzed: 05/28/2021					
Specific Conductance (EC)	1.07	0.00500	mmhos/cm		1.10			2.53	25	

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 15-26 Tank Batt

**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 L556088 - 3550B

MSD (L 91257-MSD-L556088)		Source: 91257			Prepared: 06/01/2021 Analyzed: 06/02/2021					
Benzo(a)pyrene	0.104	0.000133	mg/Kg	0.166	0.000212	62.6	30-130	11.3	30	
1-Methylnaphthalene	0.0829	0.00048	"	0.166	<0.000480	49.9	30-130	10.5	30	
2-Methylnaphthalene	0.0835	0.000542	"	0.166	<0.000542	50.3	30-130	9.6	30	
Acenaphthene	0.0732	0.000431	"	0.166	<0.000431	44	30-130	5.6	30	
Naphthalene	0.0737	0.000467	"	0.166	<0.000467	44.3	30-130	6.1	30	
Benzo(a)anthracene	0.0963	0.000441	"	0.166	<0.000441	58	30-130	14.1	30	
Indeno(1,2,3-cd)pyrene	0.0617	0.000344	"	0.166	<0.000344	37.1	30-130	12.9	30	
Fluorene	0.0836	0.000501	"	0.166	<0.000501	50.3	30-130	13.6	30	
Fluoranthene	0.0871	0.000529	"	0.166	<0.000529	52.4	30-130	13.7	30	
Dibenz(a,h)anthracene	0.0693	0.000279	"	0.166	<0.000279	41.7	30-130	13.5	30	
Chrysene	0.0839	0.000256	"	0.166	<0.000256	50.5	30-130	9.2	30	
Benzo(k)fluoranthene	0.0593	0.000486	"	0.166	<0.000486	35.7	30-130	15.4	30	
Benzo(b)fluoranthene	0.06	0.000138	"	0.166	<0.000138	36.1	30-130	25.3	30	
Anthracene	0.071	0.000426	"	0.166	<0.000426	42.7	30-130	10.5	30	
Pyrene	0.0808	0.000387	"	0.166	<0.000387	48.6	30-130	12.6	30	
Surrogate: 2-Fluorobiphenyl	43.8		"	0.331	168	43.8	33-115			
Surrogate: 4-Terphenyl-d14	41.9		"	0.331	163	41.9	33-122			
Surrogate: Nitrobenzene-d5	38.9		"	0.331	152	38.9	29-110			

MS (L 91257-MS-L556088)		Source: 91257			Prepared: 06/01/2021 Analyzed: 06/02/2021					
Benzo(a)anthracene	0.0836	0.000441	mg/Kg	0.166	<0.000441	50.3	30-130			
Chrysene	0.0765	0.000256	"	0.166	<0.000256	46	30-130			
Pyrene	0.0712	0.000387	"	0.166	<0.000387	42.8	30-130			
Naphthalene	0.0693	0.000467	"	0.166	<0.000467	41.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0542	0.000344	"	0.166	<0.000344	32.6	30-130			
Fluorene	0.0729	0.000501	"	0.166	<0.000501	43.9	30-130			
Fluoranthene	0.0759	0.000529	"	0.166	<0.000529	45.7	30-130			

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 15-26 Tank Batt

**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 L556088 - 3550B**

MS (L 91257-MS-L556088)	Source: 91257			Prepared: 06/01/2021 Analyzed: 06/02/2021						
Dibenz(a,h)anthracene	0.0605	0.000279	mg/Kg	0.166	<0.000279	36.4	30-130			
Benzo(a)pyrene	0.0928	0.000133	"	0.166	0.000212	55.9	30-130			
Anthracene	0.0789	0.000426	"	0.166	<0.000426	47.5	30-130			
Acenaphthene	0.0692	0.000431	"	0.166	<0.000431	41.6	30-130			
2-Methylnaphthalene	0.0758	0.000542	"	0.166	<0.000542	45.6	30-130			
Benzo(k)fluoranthene	0.0508	0.000486	"	0.166	<0.000486	30.6	30-130			
Benzo(b)fluoranthene	0.0465	0.000138	"	0.166	<0.000138	28	30-130			*
1-Methylnaphthalene	0.0746	0.00048	"	0.166	<0.000480	44.9	30-130			
Surrogate: Nitrobenzene-d5	50.3		"	0.332	152	50.3	29-110			
Surrogate: 2-Fluorobiphenyl	51.5		"	0.332	168	51.5	33-115			
Surrogate: 4-Terphenyl-d14	51.2		"	0.332	163	51.2	33-122			

LCS (LCS-L556088)	Prepared: 06/01/2021 Analyzed: 06/02/2021									
Dibenz(a,h)anthracene	0.105	0.000279	mg/Kg	0.167		62.8	30-130			
Fluoranthene	0.115	0.000529	"	0.167		68.8	30-130			
Fluorene	0.11	0.000501	"	0.167		65.8	30-130			
Pyrene	0.111	0.000387	"	0.167		66.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0985	0.000344	"	0.167		58.9	30-130			
2-Methylnaphthalene	0.111	0.000542	"	0.167		66.4	30-130			
Chrysene	0.114	0.000256	"	0.167		68.2	30-130			
Naphthalene	0.104	0.000467	"	0.167		62.2	30-130			
Benzo(b)fluoranthene	0.1	0.000138	"	0.167		59.8	30-130			
Benzo(a)pyrene	0.138	0.000133	"	0.167		82.6	30-130			
Benzo(a)anthracene	0.127	0.000441	"	0.167		76	30-130			
Anthracene	0.113	0.000426	"	0.167		67.6	30-130			
1-Methylnaphthalene	0.112	0.00048	"	0.167		67	30-130			
Acenaphthene	0.102	0.000431	"	0.167		61	30-130			

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**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L556088 - 3550B**

**LCS (LCS-L556088)**

Prepared: 06/01/2021 Analyzed: 06/02/2021

Benzo(k)fluoranthene	0.105	0.000486	mg/Kg	0.167		62.8	30-130			
Surrogate: Nitrobenzene-d5	63.3		"	0.333		63.3	29-110			
Surrogate: 4-Terphenyl-d14	66.6		"	0.333		66.6	33-122			
Surrogate: 2-Fluorobiphenyl	67.8		"	0.333		67.8	33-115			

**LRB (LRB-L556088)**

Prepared: 06/01/2021 Analyzed: 06/02/2021

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	60.6		"	0.333		60.6	29-110			
Surrogate: 4-Terphenyl-d14	65.4		"	0.333		65.4	33-122			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333		62.7	33-115			

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15-26 Tank Batt

### Notes and Definitions

- U Sample is Non-Detect.
- J Estimated Value. Analyte below reported quantitation limit.
- \* QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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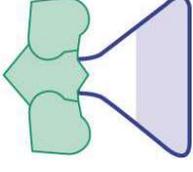


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95029  
 ORIGINS LABORATORY INC  
 1725 ELK PLACE  
 DENVER CO 80211

NAME : ORIGINS

DATE RECEIVED: 05/28/2021

DATE REPORTED: 06/02/2021

## SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)			PHOSPHORUS		
				1:1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M3 ppm
3334281	Y105507	01	0-8											
3334282	Y105507	02	0-8											

LAB NUMBER	SULFATE-S			NH4OAc (Exchangeable)			DTPA			BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION				
	Ca-P ppm	K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K
3334281											0.2					
3334282											0.3					

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS			CHLORIDE ppm	EXCH. NH4-N ppm	ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %				
3334281													
3334282													

## SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL											LIME REC 60% ECCE T/A		
				N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl			
3334281	Y105507	01															
3334282	Y105507	02															

Approved By: Kevin Grooms

Analysis By: American Agricultural Lab

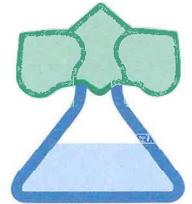
Recommendations By: American Agricultural Lab

# American Agricultural Laboratory, Inc.

700 West D St. / P.O. Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880 / [www.AmAgLab.com](http://www.AmAgLab.com)

*"Analysis You Can Grow With"®*



ORIGINS LABORATORY INC  
1725 ELK PLACE  
DENVER, CO 80211

DATE RECEIVED: 5/28/2021  
DATE REPORTED: 6/2/2021  
ACCOUNT NO: 95029  
GROWER: ORIGINS

## SOIL BORON REPORT

Lab #	Field ID	Sample ID	B, mg/L
3334281	Y105507	1	0.2
3334282	Y105507	2	0.3

### Method Used:

Provin, T., and H. Zhang. 2014. DTPA and DTPA-Sorbitol Extraction of Micronutrients.  
Soil Test Methods From the Southeastern United States 2014

Electronically Approved by: Kevin Grooms



Your Lab's letterhead here...

Address

City, St. Zip

Phone/Fax

# SUBCONTRACT ORDER

### Sending Laboratory:

Origins Laboratory, Inc.  
1725 West Elk Place  
Denver, CO 80211  
Phone: 303.433.1322  
Fax: 303.265.9645

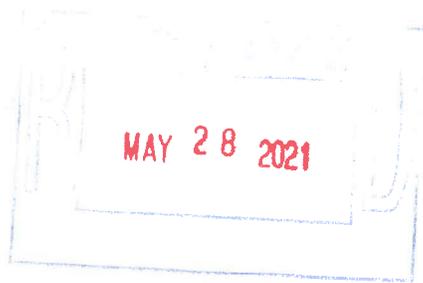
Project Manager: Noelle Doyle Mathis

### Subcontracted Laboratory:

American Agricultural Laboratory, Inc  
210 East 1st Street  
McCook, NE 69001  
Phone: (308) 345-3670  
Fax: (308) 345-7880

### Work Order: Y105507

Analysis	Due	Expires	Comments
<b>Sample ID: Y105507-01 Soil Sampled: 05/26/2021 10:30</b>			
Boron (DTPA Sorbitol)	06/03/2021	05/27/2021 10:30	
<i>Containers Supplied:</i>			
<b>Sample ID: Y105507-02 Soil Sampled: 05/26/2021 10:36</b>			
Boron (DTPA Sorbitol)	06/03/2021	05/27/2021 10:36	
<i>Containers Supplied:</i>			



J. Merrill  
Released By

5-26-21  
Date

Karm Stewart  
Received By

5-28-21  
Date