



## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

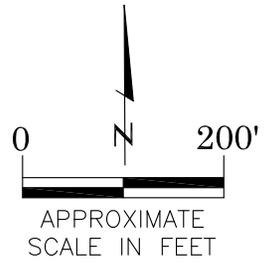
**Figure 4: Polycyclic Aromatic Hydrocarbons Map**





**LEGEND**

- FORMER FHA #2-1 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS – FIELD SCREENED
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS – LAB SUBMITTED



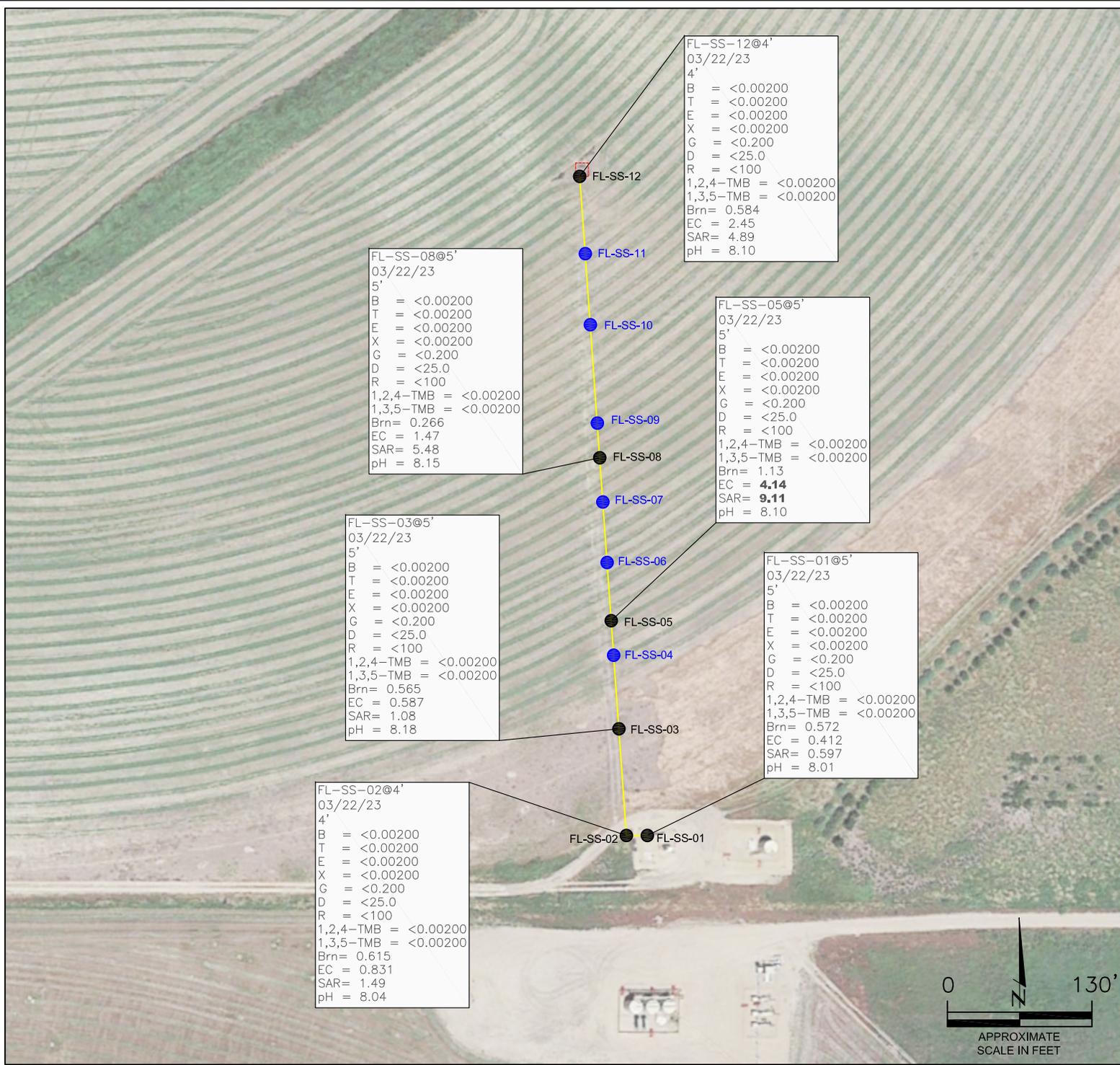
AERIAL SITE LOCATION MAP  
 FHA #2-1  
 CLOSURE ASSESSMENT  
 40.343220 / -104.519930  
 SE¼ NW¼ SEC.2 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-12827  
 REMEDIATION # 17340

DRAWN BY:  
 KM

FIGURE NO.  
 2



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



**LEGEND**

- - - - - FORMER FHA #2-1 WELLHEAD
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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-RR0 (mg/kg)
1,2,4-TMB	= 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB	= 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn	= BORON (mg/L)
EC	= SPECIFIC CONDUCTANCE (mmhos/cm)
SAR	= SODIUM ADSORPTION RATIO
pH	= pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM  
 mg/L = MILLIGRAMS PER LITER  
 mmhos/cm = MILLIHOS PER CENTIMETER

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
 TPH-RR0 = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP

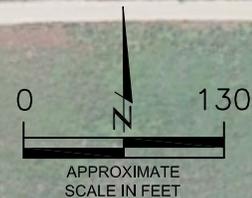
FHA #2-1  
 CLOSURE ASSESSMENT  
 40.343220 / -104.519930  
 SE¼ NW¼ SEC.2 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-12827  
 REMEDIATION # 17340

DRAWN BY:  
 KM

FIGURE NO.  
 3



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**LEGEND**

- FORMER FHA #2-1 WELLHEAD
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

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

mg/kg = MILLIGRAMS PER KILOGRAM

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

VALUES PRESENTED IN **BOLD** CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

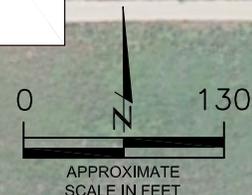
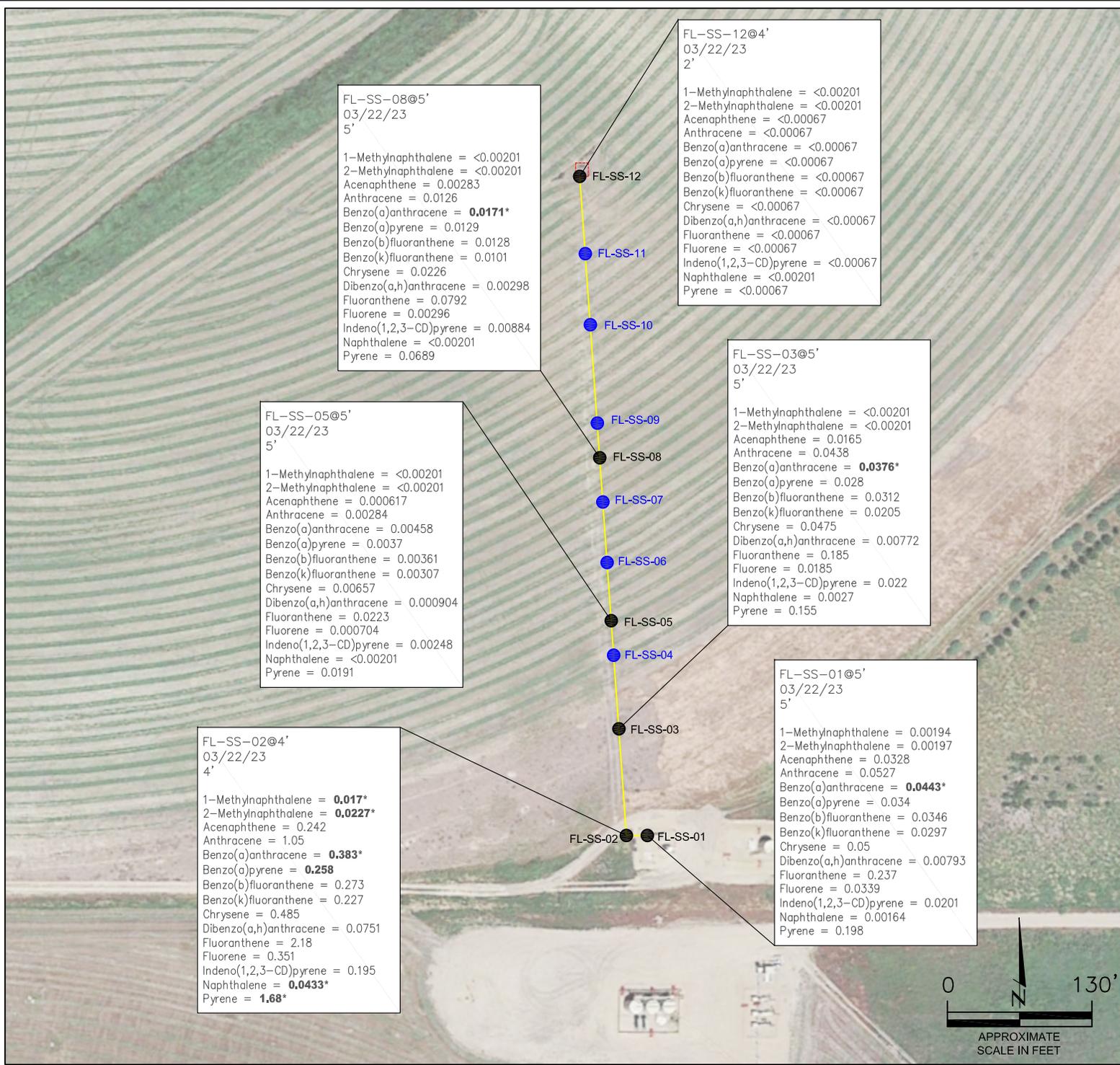
FHA #2-1  
 CLOSURE ASSESSMENT  
 40.343220 / -104.519930  
 SE¼ NW¼ SEC.2 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-12827  
 REMEDIATION # 17340

DRAWN BY:  
 KM

FIGURE NO.  
 4



**EAGLE**  
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## **ATTACHMENT A**

### **Photo Log**

FHA #2-1  
API # 05-123-12827  
Remediation #17340

Closure Assessment

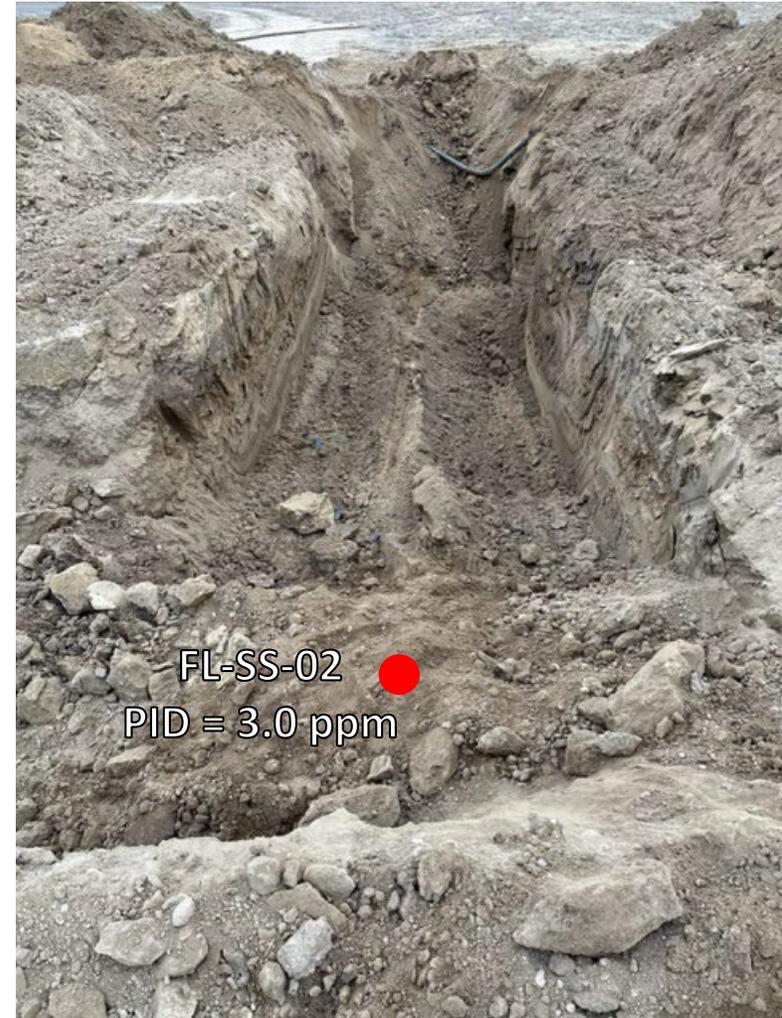
March 2023



# Flowline Removal – 03/22/23

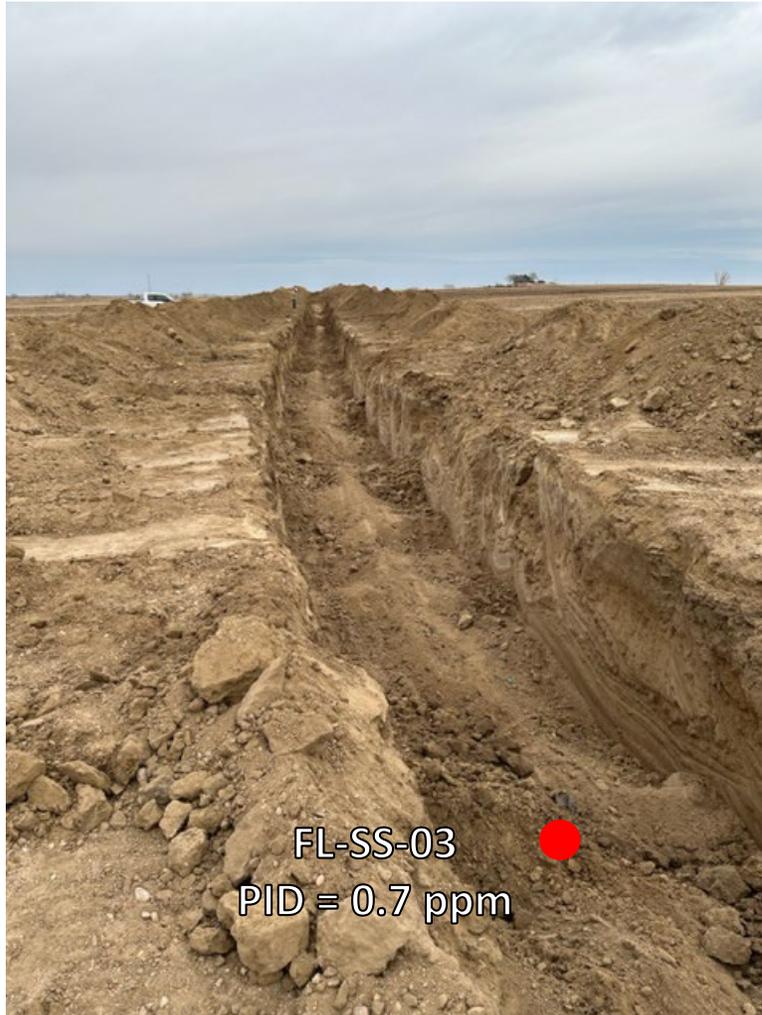


Looking east at flowline terminus/Pt. B at separator  
No petroleum hydrocarbon staining or odor observed



Looking east at flowline change of direction (south to east)  
No petroleum hydrocarbon staining or odor observed

# Flowline Removal – 03/22/23



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed

## Flowline Removal – 03/22/23



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed

## Flowline Removal – 03/22/23



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed

## Flowline Removal – 03/22/23



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed

# Flowline Removal – 03/22/23



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed



Looking north at flowline Pt. A/terminus at wellhead

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**



March 31, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - FHA #2-1

Project Number - [none]

Attached are your analytical results for Noble - FHA #2-1 received by Origins Laboratory, Inc. March 22, 2023. This project is associated with Origins project number Y303609-01.

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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - FHA #2-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@5'	Y303609-01	Soil	March 22, 2023 9:06	03/22/2023 16:38
FL-SS-02@4'	Y303609-02	Soil	March 22, 2023 9:08	03/22/2023 16:38
FL-SS-03@5'	Y303609-03	Soil	March 22, 2023 9:10	03/22/2023 16:38
FL-SS-05@5'	Y303609-04	Soil	March 22, 2023 9:14	03/22/2023 16:38
FL-SS-08@5'	Y303609-05	Soil	March 22, 2023 9:20	03/22/2023 16:38
FL-SS-12@4'	Y303609-06	Soil	March 22, 2023 9:28	03/22/2023 16:38

Origins Laboratory, Inc.



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



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4303609

Client: Eagle Environ.

Client Project ID: FHA #2-1

Checklist Completed by: JAE/DE

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

Date/time completed: 3/23/23

Airbill #: NA

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

Cooler Number/Temperature: 1, 3.5 °c / \_\_\_\_\_ °c / \_\_\_\_\_ °c (Describe) \_\_\_\_\_ °c

Thermometer ID: 7004

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

3-24-23  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

FL-SS-01@5'  
 3/22/2023 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303609-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.572		0.0995	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	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	109 %		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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-01@5'**  
**3/22/2023 9:06:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303609-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.1 %		70-130			B3C23 46	03/23/2023	03/28/2023	
Surrogate: 4-Bromofluorobenzene	93.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.58		0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023	
Magnesium	1.25		0.823	"	"	"	"	"	
Sodium	0.710		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00194	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	J
2-Methylnaphthalene	0.00197	0.00194	0.00201	"	"	"	"	"	J
Acenaphthene	0.0328	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.0527	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0443	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.034	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0346	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.0297	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.05	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00793	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.237	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0339	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.0201	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-01@5'**  
**3/22/2023 9:06:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303609-01 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.00164	0.00145	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	J
Pyrene	0.198	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.01			pH Units	1	B3C2707	03/27/2023	03/28/2023	
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**SAR by 20B Saturated Paste**

SAR	0.597			SAR	1	B3C2704	03/27/2023	03/29/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.412		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-02@4'**  
**3/22/2023 9:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303609-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.615		0.0984	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	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	111 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

FL-SS-02@4'

3/22/2023 9:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303609-02 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.6 %		70-130			B3C23 46	03/23/2023	03/28/2023	
Surrogate: 4-Bromofluorobenzene	94.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.77		0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023	
Magnesium	2.44		0.823	"	"	"	"	"	
Sodium	2.40		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.017	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
2-Methylnaphthalene	0.0227	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.242	0.000304	0.00067	"	"	"	"	"	
Anthracene	1.05	0.00167	0.00335	"	5	"	"	"	
Benzo(a)anthracene	0.383	0.000493	0.00067	"	1	"	"	"	
Benzo(a)pyrene	0.258	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.273	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.227	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.485	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.0751	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	2.18	0.00197	0.00335	"	5	"	"	"	
Fluorene	0.351	0.000286	0.00067	"	1	"	"	"	
Indeno(1,2,3-cd)pyrene	0.195	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-02@4'**

**3/22/2023 9:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303609-02 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.0433	0.00145	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
Pyrene	1.68	0.00322	0.00335	"	5	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.2 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.04			pH Units	1	B3C2707	03/27/2023	03/28/2023	
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**SAR by 20B Saturated Paste**

SAR	1.49			SAR	1	B3C2704	03/27/2023	03/29/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.831		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-03@5'**  
**3/22/2023 9:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303609-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.565		0.0997	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	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	115 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

FL-SS-03@5'  
 3/22/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303609-03 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.1 %		70-130			B3C23 46	03/23/2023	03/28/2023	
Surrogate: 4-Bromofluorobenzene	91.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.45		0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023	
Magnesium	1.53		0.823	"	"	"	"	"	
Sodium	1.52		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.0165	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.0438	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0376	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.028	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0312	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.0205	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0475	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00772	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.185	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0185	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.022	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-03@5'**

**3/22/2023 9:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303609-03 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.0027	0.00145	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
Pyrene	0.155	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	72.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.3 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.18			pH Units	1	B3C2707	03/27/2023	03/28/2023	
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**SAR by 20B Saturated Paste**

SAR	1.08			SAR	1	B3C2704	03/27/2023	03/29/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.587		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

FL-SS-05@5'

3/22/2023 9:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303609-04 (Soil)

**Boron (DTPA Sorbitol)**

Boron	1.13		0.0982	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	69.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

FL-SS-05@5'  
 3/22/2023 9:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303609-04 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.8 %		70-130			B3C23 46	03/23/2023	03/28/2023	
Surrogate: 4-Bromofluorobenzene	92.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	8.76		0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023	
Magnesium	10.3		0.823	"	"	"	"	"	
Sodium	28.1		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000617	0.000304	0.00067	"	"	"	"	"	J
Anthracene	0.00284	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00458	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.0037	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00361	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00307	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00657	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000904	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.0223	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000704	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00248	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-05@5'**

**3/22/2023 9:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303609-04 (Soil)**

**PAH by 8270D SIM**

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
Pyrene	<b>0.0191</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.9 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.10</b>			pH Units	1	B3C2707	03/27/2023	03/28/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>9.11</b>			SAR	1	B3C2704	03/27/2023	03/29/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>4.14</b>		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-08@5'**  
**3/22/2023 9:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303609-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.266		0.0981	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

FL-SS-08@5'  
 3/22/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y303609-05 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	99.9 %		70-130			B3C23 46	03/23/2023	03/28/2023	
Surrogate: 4-Bromofluorobenzene	92.0 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.41		0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023	
Magnesium	2.70		0.823	"	"	"	"	"	
Sodium	8.75		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00283	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.0126	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0171	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.0129	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0128	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.0101	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0226	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00298	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.0792	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00296	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00884	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-08@5'**

**3/22/2023 9:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303609-05 (Soil)**

**PAH by 8270D SIM**

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
Pyrene	<b>0.0689</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.8 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.15</b>			pH Units	1	B3C2707	03/27/2023	03/28/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>5.48</b>			SAR	1	B3C2704	03/27/2023	03/29/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>1.47</b>		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-12@4'**  
**3/22/2023 9:28:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303609-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.584		0.0996	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	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	111 %		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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-12@4'**  
**3/22/2023 9:28:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303609-06 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	100 %		70-130			B3C23 46	03/23/2023	03/28/2023	
Surrogate: 4-Bromofluorobenzene	92.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	7.37		0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023	
Magnesium	7.53		0.823	"	"	"	"	"	
Sodium	13.4		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**FL-SS-12@4'**

**3/22/2023 9:28:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y303609-06 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L672666	03/28/2023	03/29/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.10			pH Units	1	B3C2707	03/27/2023	03/28/2023	
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**SAR by 20B Saturated Paste**

SAR	4.89			SAR	1	B3C2704	03/27/2023	03/29/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.45		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023	
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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**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 B3C2346 - EPA 5030 (soil)

Blank (B3C2346-BLK1)

Prepared: 03/23/2023 Analyzed: 03/28/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.1		70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**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 B3C2346 - EPA 5030 (soil)**

**LCS (B3C2346-BS1)**

Prepared: 03/23/2023 Analyzed: 03/28/2023

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0955	0.00200	"	0.100		95.5	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.0864	0.00200	"	0.100		86.4	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**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 B3C2346 - EPA 5030 (soil)

Matrix Spike (B3C2346-MS1)	Source: Y303609-01			Prepared: 03/23/2023 Analyzed: 03/28/2023						
1,2,4-Trimethylbenzene	0.0953	0.00200	mg/kg	0.100	0.000920	94.4	70-130			
1,3,5-Trimethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Benzene	0.0948	0.00200	"	0.100	ND	94.8	70-130			
Ethylbenzene	0.0852	0.00200	"	0.100	0.000980	84.2	70-130			
Naphthalene	0.107	0.00380	"	0.100	0.00178	106	70-130			
Toluene	0.0943	0.00200	"	0.100	ND	94.3	70-130			
o-Xylene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	0.00146	84.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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 Project Number: [none]  
 Project: Noble - FHA #2-1

**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 B3C2346 - EPA 5030 (soil)

Matrix Spike Dup (B3C2346-MSD1)	Source: Y303609-01			Prepared: 03/23/2023 Analyzed: 03/28/2023						
1,2,4-Trimethylbenzene	0.0928	0.00200	mg/kg	0.100	0.000920	91.9	70-130	2.66	20	
1,3,5-Trimethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130	0.0884	20	
Benzene	0.0961	0.00200	"	0.100	ND	96.1	70-130	1.38	20	
Ethylbenzene	0.0864	0.00200	"	0.100	0.000980	85.4	70-130	1.47	20	
Naphthalene	0.0991	0.00380	"	0.100	0.00178	97.3	70-130	8.06	20	
Toluene	0.0880	0.00200	"	0.100	ND	88.0	70-130	6.89	20	
o-Xylene	0.0875	0.00200	"	0.100	ND	87.5	70-130	0.435	20	
m,p-Xylene	0.172	0.00400	"	0.200	0.00146	85.1	70-130	0.408	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**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 B3C2422 - EPA 3580</b>										
<b>Blank (B3C2422-BLK1)</b>										
					Prepared: 03/24/2023 Analyzed: 03/28/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		72.1	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**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 B3C2422 - EPA 3580**

**LCS (B3C2422-BS1)**

Prepared: 03/24/2023 Analyzed: 03/28/2023

Diesel (C10-C28)	844	50.0	mg/kg	1000		84.4	70-130			
Residual Range Organics (C28-C40)	870	200	"	1000		87.0	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.6	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**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 B3C2422 - EPA 3580**

<b>Matrix Spike (B3C2422-MS1)</b>	<b>Source: Y303609-01</b>			Prepared: 03/24/2023 Analyzed: 03/28/2023						
Diesel (C10-C28)	882	50.0	mg/kg	1000	ND	88.2	70-130			
Residual Range Organics (C28-C40)	919	200	"	1000	ND	91.9	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.6	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**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 B3C2422 - EPA 3580**

<b>Matrix Spike Dup (B3C2422-MSD1)</b>	<b>Source: Y303609-01</b>		<b>Prepared: 03/24/2023 Analyzed: 03/28/2023</b>							
Diesel (C10-C28)	875	50.0	mg/kg	1000	ND	87.5	70-130	0.839	35	
Residual Range Organics (C28-C40)	908	200	"	1000	ND	90.8	70-130	1.20	35	
Surrogate: o-Terphenyl	42		"	49.8		85.3	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**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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**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 B3C2704 - Saturated Paste Metals**

**Blank (B3C2704-BLK1)**

Prepared: 03/27/2023 Analyzed: 03/29/2023

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B3C2704-DUP1)**

Source: Y303606-16

Prepared: 03/27/2023 Analyzed: 03/29/2023

Calcium PPM	33.8	10.0	mg/L		26.3			25.0	50	
SAR	0.00		SAR		29.1			200	200	
Magnesium PPM	12.7	10.0	mg/L		9.93			24.8	50	
Sodium PPM	824	10.0	"		689			17.8	50	

**Batch B3C2710 - DTPA Sorbitol Preparation**

**Blank (B3C2710-BLK1)**

Prepared: 03/27/2023 Analyzed: 03/28/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3C2710-DUP1)**

Source: Y303606-16

Prepared: 03/27/2023 Analyzed: 03/28/2023

Boron	1.86	0.0993	mg/L		2.14			14.0	50	
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

**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 B3C2707 - Saturated Paste pH/EC</b>										
<b>Blank (B3C2707-BLK1)</b>					Prepared: 03/27/2023 Analyzed: 03/28/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3C2707-DUP1)</b>					<b>Source: Y303606-16</b> Prepared: 03/27/2023 Analyzed: 03/28/2023					
pH	8.28		pH Units		8.20			0.971	25	
Specific Conductance (EC)	3.02	0.00500	mmhos/cm		3.01			0.292	25	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L672666 - 3550B

MSD (L 88214-MSD-L672666)	Source: 88214			Prepared: 03/28/2023 Analyzed: 03/29/2023						
2-Methylnaphthalene	0.113	0.00201	mg/Kg	0.164	0.00734	64.4	30-130	5.1	30	
Fluorene	0.121	0.00067	"	0.164	0.00647	69.8	30-130	1.6	30	
Pyrene	0.133	0.00067	"	0.164	0.00135	80.2	30-130	6.2	30	
Indeno(1,2,3-cd)pyrene	0.122	0.00067	"	0.164	<0.000627	74.3	30-130	7.6	30	
Fluoranthene	0.135	0.00067	"	0.164	<0.000394	82.3	30-130	5.3	30	
Dibenz(a,h)anthracene	0.13	0.00067	"	0.164	<0.000614	79.2	30-130	0.7	30	
Chrysene	0.133	0.00067	"	0.164	0.0023	79.6	30-130	11.9	30	
Naphthalene	0.1	0.00201	"	0.164	<0.00145	60.9	30-130	4.8	30	
1-Methylnaphthalene	0.111	0.00201	"	0.164	0.00527	64.4	30-130	4.4	30	
Benzo(k)fluoranthene	0.147	0.00067	"	0.164	<0.000437	89.6	30-130	10.7	30	
Acenaphthene	0.108	0.00067	"	0.164	0.00162	64.8	30-130	0.9	30	
Anthracene	0.124	0.00067	"	0.164	<0.000334	75.6	30-130	5.8	30	
Benzo(a)anthracene	0.125	0.00067	"	0.164	0.00154	75.2	30-130	4.9	30	
Benzo(a)pyrene	0.128	0.00067	"	0.164	0.000647	77.6	30-130	11.5	30	
Benzo(b)fluoranthene	0.104	0.00067	"	0.164	<0.000585	63.4	30-130	0	30	

Surrogate: 2-Fluorobiphenyl	61.7	"	0.329	173	61.7	33-115
Surrogate: Nitrobenzene-d5	61	"	0.329	166	61	29-110
Surrogate: 4-Terphenyl-d14	73.8	"	0.329	201	73.8	33-122

MS (L 88214-MS-L672666)	Source: 88214			Prepared: 03/28/2023 Analyzed: 03/29/2023						
Benzo(k)fluoranthene	0.132	0.00067	mg/Kg	0.167	<0.000437	79	30-130			
Acenaphthene	0.109	0.00067	"	0.167	0.00162	64.2	30-130			
Naphthalene	0.105	0.00201	"	0.167	<0.00145	62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.113	0.00067	"	0.167	<0.000627	67.6	30-130			
Fluorene	0.119	0.00067	"	0.167	0.00647	67.3	30-130			
Fluoranthene	0.128	0.00067	"	0.167	<0.000394	76.6	30-130			
Dibenz(a,h)anthracene	0.129	0.00067	"	0.167	<0.000614	77.2	30-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L672666 - 3550B**

MS (L 88214-MS-L672666)	Source: 88214			Prepared: 03/28/2023 Analyzed: 03/29/2023						
Chrysene	0.118	0.00067	mg/Kg	0.167	0.0023	69.2	30-130			
1-Methylnaphthalene	0.116	0.00201	"	0.167	0.00527	66.3	30-130			
Benzo(a)pyrene	0.114	0.00067	"	0.167	0.000647	67.8	30-130			
Anthracene	0.117	0.00067	"	0.167	<0.000334	70	30-130			
Pyrene	0.125	0.00067	"	0.167	0.00135	74	30-130			
2-Methylnaphthalene	0.119	0.00201	"	0.167	0.00734	66.8	30-130			
Benzo(b)fluoranthene	0.104	0.00067	"	0.167	<0.000585	62.2	30-130			
Benzo(a)anthracene	0.119	0.00067	"	0.167	0.00154	70.3	30-130			
Surrogate: Nitrobenzene-d5	56.1		"	0.333	166	56.1	29-110			
Surrogate: 4-Terphenyl-d14	68.7		"	0.333	201	68.7	33-122			
Surrogate: 2-Fluorobiphenyl	58.2		"	0.333	173	58.2	33-115			

LCS (LCS-L672666)	Prepared: 03/28/2023 Analyzed: 03/29/2023									
Chrysene	0.12	0.00067	mg/Kg	0.167		71.8	30-130			
Dibenz(a,h)anthracene	0.153	0.00067	"	0.167		91.6	30-130			
Fluoranthene	0.13	0.00067	"	0.167		77.8	30-130			
Fluorene	0.129	0.00067	"	0.167		77.2	30-130			
Indeno(1,2,3-cd)pyrene	0.141	0.00067	"	0.167		84.4	30-130			
Naphthalene	0.111	0.00201	"	0.167		66.4	30-130			
Benzo(k)fluoranthene	0.15	0.00067	"	0.167		89.8	30-130			
Pyrene	0.132	0.00067	"	0.167		79	30-130			
Benzo(a)pyrene	0.128	0.00067	"	0.167		76.6	30-130			
Benzo(a)anthracene	0.123	0.00067	"	0.167		73.6	30-130			
Anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Acenaphthene	0.116	0.00067	"	0.167		69.4	30-130			
2-Methylnaphthalene	0.118	0.00201	"	0.167		70.6	30-130			
1-Methylnaphthalene	0.118	0.00201	"	0.167		70.6	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - FHA #2-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L672666 - 3550B**

**LCS (LCS-L672666)**

Prepared: 03/28/2023 Analyzed: 03/29/2023

Benzo(b)fluoranthene	0.117	0.00067	mg/Kg	0.167		70	30-130			
Surrogate: Nitrobenzene-d5	57		"	0.333		57	29-110			
Surrogate: 4-Terphenyl-d14	70.5		"	0.333		70.5	33-122			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			

**LRB (LRB-L672666)**

Prepared: 03/28/2023 Analyzed: 03/29/2023

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	0.00201	"				-			
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	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	56.7		"	0.333		56.7	29-110			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333		73.8	33-122			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.333		61.5	33-115			

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Wheat Ridge CO 80033

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Project Number: [none]  
Project: Noble - FHA #2-1

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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.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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