



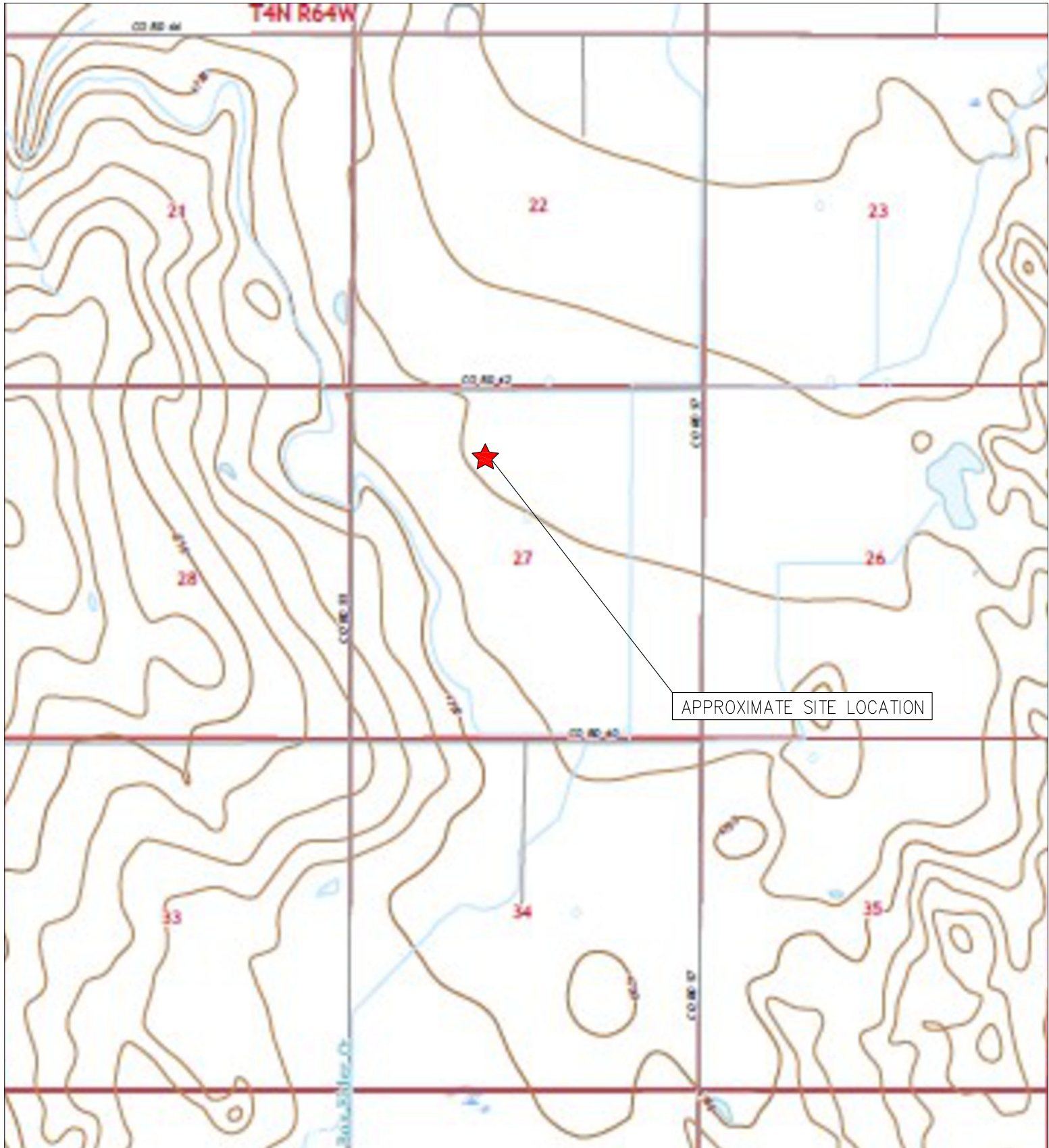
## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**



APPROXIMATE SITE LOCATION

TOPOGRAPHIC SITE LOCATION MAP  
 FOOS C #27-18  
 CLOSURE ASSESSMENT  
 40.287208 / -104.536534  
 NW¼ NE¼ SEC.27 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-29390  
 REMEDIATION # 28232



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

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



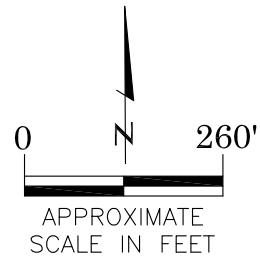
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE NO. 1



**LEGEND**

- FORMER FOOS C #27-18 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS – FIELD SCREENED
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS – LAB SUBMITTED



AERIAL SITE LOCATION MAP

FOOS C #27-18  
 CLOSURE ASSESSMENT  
 40.287208 / -104.536534  
 NW¼ NE¼ SEC.27 T3N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-29390  
 REMEDIATION # 28232

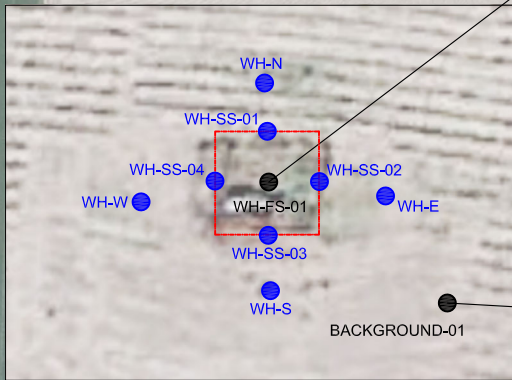
FIGURE NO.  
2

DRAWN BY:  
JF



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WELLHEAD DECOMMISSIONING 06/28/23 - MAP NOT TO SCALE



WH-FS-01@6'  
06/28/23  
6'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
N = <0.00380  
G = 0.272  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.407  
EC = 1.13  
SAR= 3.20  
pH = **8.34** (8.20/8.26)

BACKGROUND-01@2'  
06/28/23  
2'  
pH = 7.92

FL-SS-03@4'  
01/29/24  
4'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
N = <0.00380  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.668  
EC = 2.54  
SAR= 5.37  
pH = 8.26

FL-SS-04@4'  
01/29/24  
4'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
N = <0.00380  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.647  
EC = 2.31  
SAR= 5.40  
pH = **8.49** (RERUN PENDING)

BACKGROUND-02@2'  
01/29/24  
2'  
Brn= 0.405  
pH = 7.92  
SAR= 4.60  
EC = 1.72

FL-SS-12@5'  
01/30/24  
5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
N = <0.00380  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.660  
EC = 1.32  
SAR= 5.47  
pH = **8.32**

FL-SS-06@4'  
01/29/24  
4'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
N = <0.00380  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.239  
EC = **7.14**  
SAR= 1.01  
pH = **5.13**

FL-SS-07@5'  
01/30/24  
5'  
B = <0.00200  
T = <0.00200  
E = 0.00380  
X = <0.00200  
N = <0.00380  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.699  
EC = 1.20  
SAR= 4.14  
pH = 8.24

LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)
- 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)  
N = NAPHTHALENE (mg/kg)  
G = TPH-GRO (mg/kg)  
D = TPH-DRO (mg/kg)  
R = TPH-RRO (mg/kg)  
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)  
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)  
Brn= BORON (mg/L)  
EC = SPECIFIC CONDUCTANCE (mmhos/cm)  
SAR= SODIUM ADSORPTION RATIO  
pH = pH (pH UNITS)

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

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

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

LABORATORY RERUNS WERE COMPLETED AS APPLICABLE ON SAMPLES WITH SOIL SUITABILITY VALUES OUTSIDE OF ECMC TABLE 915-1 REGULATORY RANGE. RESULTS OF THE RERUNS ARE PRESENTED IN PARENTHESES.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP  
FOOS C #27-18  
CLOSURE ASSESSMENT  
40.287208 / -104.536534  
NW¼ NE¼ SEC.27 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-29390  
REMEDATION # 28232

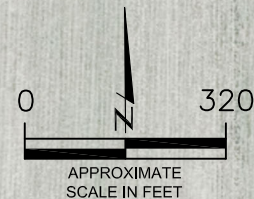


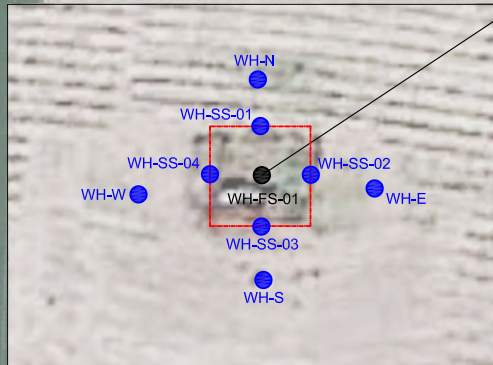
FIGURE NO.  
3

DRAWN BY:  
JF



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

WELLHEAD DECOMMISSIONING 06/28/23 - MAP NOT TO SCALE



WH-FS-01@6'  
06/28/23  
6'

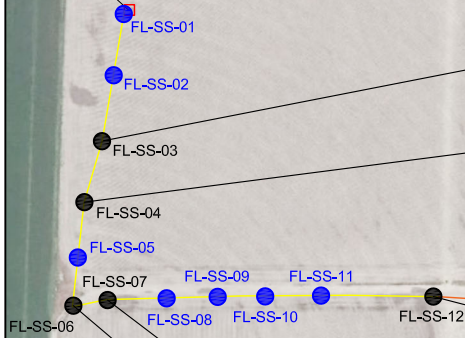
1-Methylnaphthalene = <0.00201  
2-Methylnaphthalene = <0.00201  
Acenaphthene = <0.00067  
Anthracene = <0.00067  
Benzo(a)anthracene = <0.00067  
Benzo(b)fluoranthene = <0.00067  
Benzo(k)fluoranthene = <0.00067  
Chrysene = <0.00067  
Dibenzo(a,h)anthracene = <0.00067  
Fluoranthene = <0.00067  
Fluorene = <0.00067  
Indeno(1,2,3-CD)pyrene = <0.00067  
Pyrene = <0.00067

FL-SS-03@4'  
01/29/24  
4'

1-Methylnaphthalene = <0.002  
2-Methylnaphthalene = <0.002  
Acenaphthene = <0.020  
Anthracene = <0.020  
Benzo(a)anthracene = <0.005  
Benzo(a)pyrene = <0.020  
Benzo(b)fluoranthene = <0.020  
Benzo(k)fluoranthene = <0.020  
Chrysene = <0.020  
Dibenzo(a,h)anthracene = <0.020  
Fluoranthene = <0.020  
Fluorene = <0.020  
Indeno(1,2,3-CD)pyrene = <0.020  
Pyrene = <0.020

FL-SS-04@4'  
01/29/24  
4'

1-Methylnaphthalene = <0.002  
2-Methylnaphthalene = <0.002  
Acenaphthene = <0.020  
Anthracene = <0.020  
Benzo(a)anthracene = <0.005  
Benzo(a)pyrene = <0.020  
Benzo(b)fluoranthene = <0.020  
Benzo(k)fluoranthene = <0.020  
Chrysene = <0.020  
Dibenzo(a,h)anthracene = <0.020  
Fluoranthene = <0.020  
Fluorene = <0.020  
Indeno(1,2,3-CD)pyrene = <0.020  
Pyrene = <0.020



FL-SS-06@4'  
01/29/24  
4'

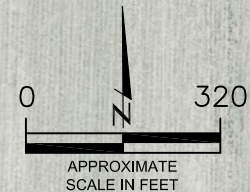
1-Methylnaphthalene = 0.004  
2-Methylnaphthalene = 0.004  
Acenaphthene = 0.090  
Anthracene = 0.412  
Benzo(a)anthracene = **0.393\***  
Benzo(a)pyrene = **0.269**  
Benzo(b)fluoranthene = **0.304\***  
Benzo(k)fluoranthene = 0.138  
Chrysene = 0.456  
Dibenzo(a,h)anthracene = 0.056  
Fluoranthene = 1.25  
Fluorene = 0.112  
Indeno(1,2,3-CD)pyrene = 0.159  
Pyrene = 0.991

FL-SS-07@5'  
01/30/24  
5'

1-Methylnaphthalene = 0.002  
2-Methylnaphthalene = 0.004  
Acenaphthene = 0.022  
Anthracene = 0.031  
Benzo(a)anthracene = **0.029\***  
Benzo(a)pyrene = 0.025  
Benzo(b)fluoranthene = 0.043  
Benzo(k)fluoranthene = 0.045  
Chrysene = 0.035  
Dibenzo(a,h)anthracene = <0.020  
Fluoranthene = 0.091  
Fluorene = 0.026  
Indeno(1,2,3-CD)pyrene = <0.020  
Pyrene = 0.074

FL-SS-12@5'  
01/30/24  
5'

1-Methylnaphthalene = <0.002  
2-Methylnaphthalene = <0.002  
Acenaphthene = <0.020  
Anthracene = <0.020  
Benzo(a)anthracene = **0.012\***  
Benzo(a)pyrene = <0.020  
Benzo(b)fluoranthene = <0.020  
Benzo(k)fluoranthene = 0.021  
Chrysene = <0.020  
Dibenzo(a,h)anthracene = <0.020  
Fluoranthene = 0.033  
Fluorene = <0.020  
Indeno(1,2,3-CD)pyrene = <0.020  
Pyrene = 0.028



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)
- 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** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP  
FOOS C #27-18  
CLOSURE ASSESSMENT  
40.287208 / -104.536534  
NW¼ NE¼ SEC.27 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-29390  
REMEDATION # 28232

FIGURE NO.  
4

DRAWN BY:  
JF



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



## **ATTACHMENT A**

### **Photo Log**

Foos C #27-18  
API # 05-123-29390  
Remediation # 28232

Closure Assessment

June 2023 – January 2024



# Wellhead Excavation – 06/28/23



Looking east

No petroleum hydrocarbon staining or odor observed

# Wellhead Surface – 06/28/23



Looking northeast

Site in good condition – no petroleum hydrocarbon staining or odor  
Observed on surface around wellhead



Looking northeast

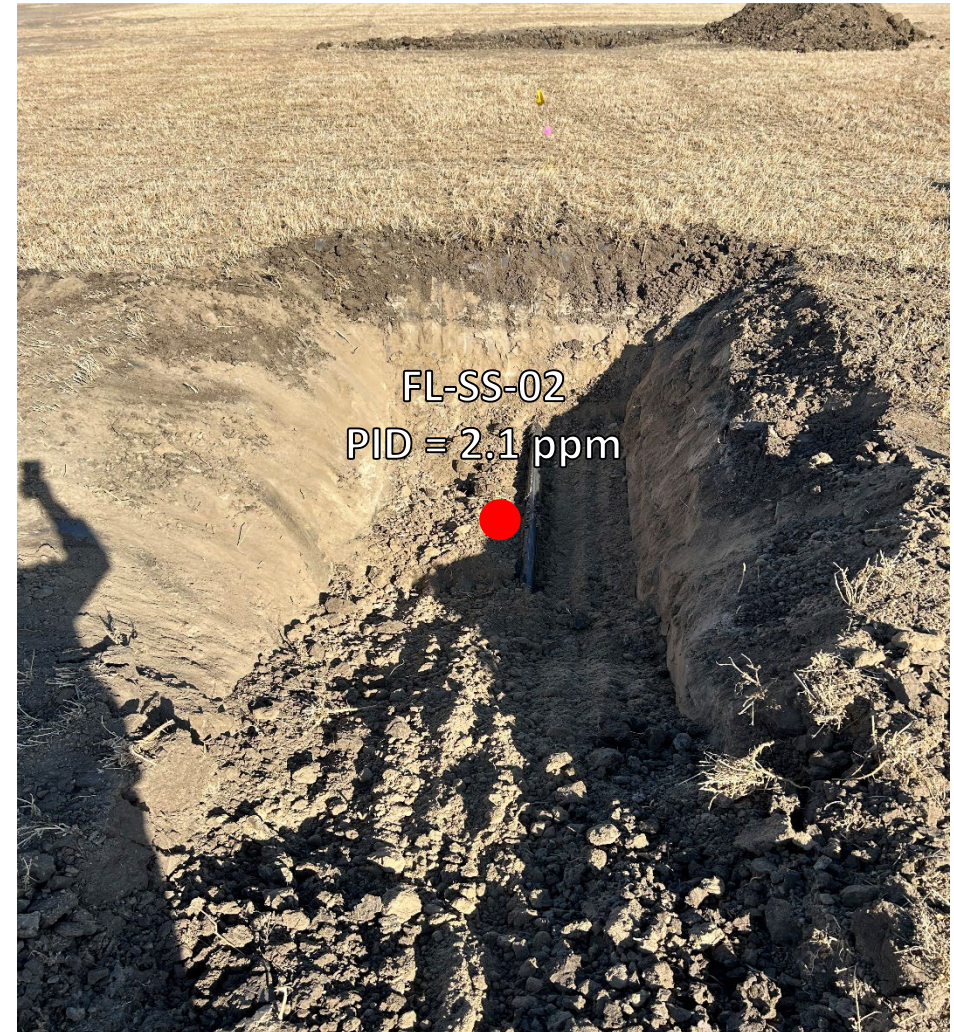
Site in good condition – no petroleum hydrocarbon staining or odor  
Observed on surface around wellhead

# Flowline Removal/Assessment – 01/29/24



Looking north at Pt A at the wellhead

No petroleum hydrocarbon staining or odor observed



Looking north at bellhole/cut point for removal

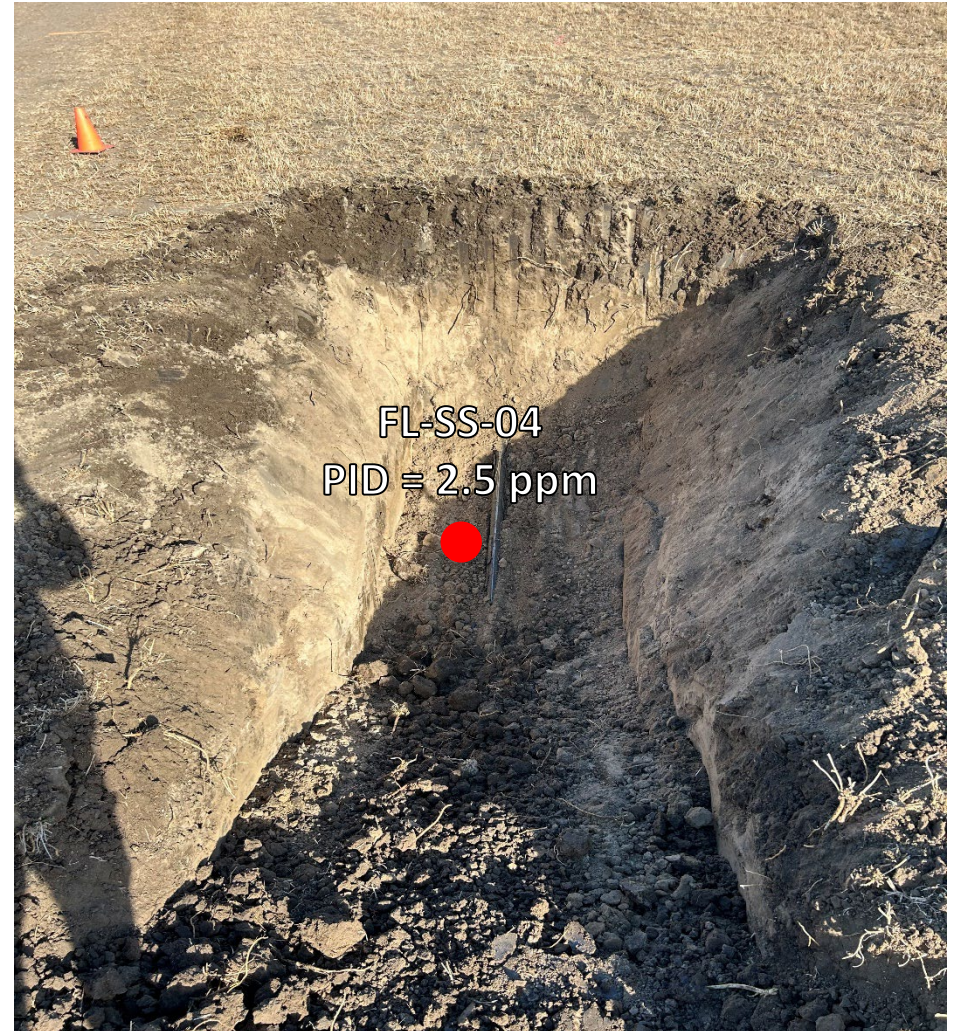
No petroleum hydrocarbon staining or odor observed

# Flowline Removal/Assessment – 01/29/24



Looking north at flowline directional change

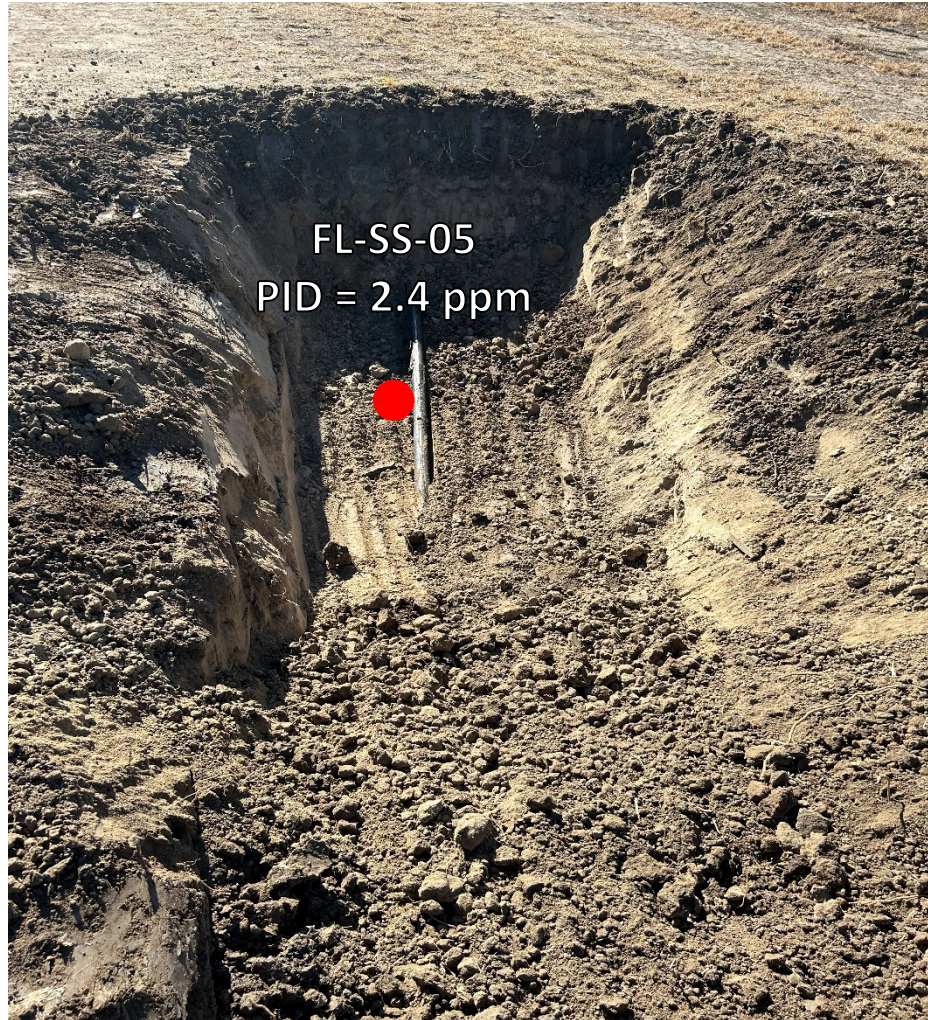
No petroleum hydrocarbon staining or odor observed



Looking north at flowline directional change

No petroleum hydrocarbon staining or odor observed

# Flowline Removal/Assessment – 01/29/24



Looking south at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed



Looking north at flowline directional change

No petroleum hydrocarbon staining or odor observed

# Flowline Removal/Assessment – 01/30/24



Looking east at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed



Looking east at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed

# Flowline Removal/Assessment – 01/30/24



Looking east at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed



Looking east at bellhole/cut point for removal

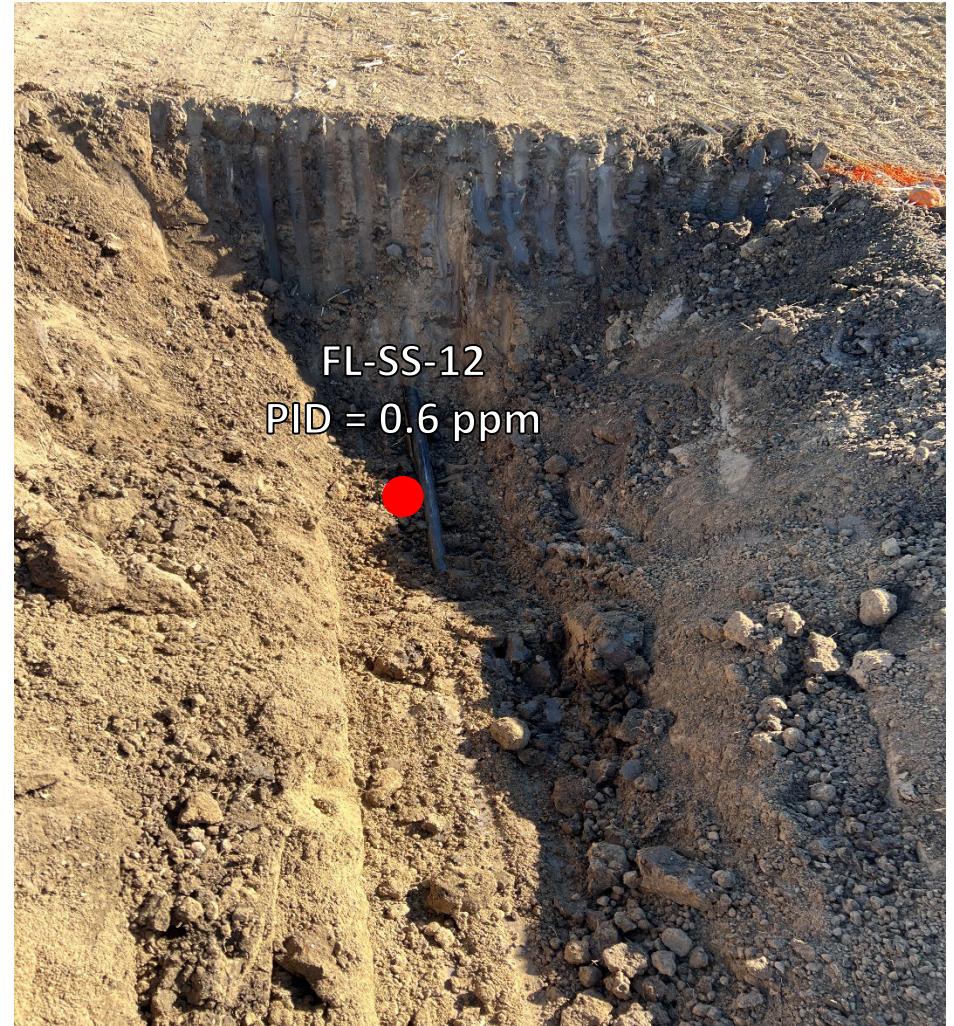
No petroleum hydrocarbon staining or odor observed

# Flowline Removal/Assessment – 01/30/24



Looking east at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed



Looking east at cut point of abandonment

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Reports**



July 14, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Foos C 27-18

Project Number - [none]

Attached are your analytical results for Noble - Foos C 27-18 received by Origins Laboratory, Inc. June 28, 2023. This project is associated with Origins project number Y306809-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Foos C 27-18

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y306809-01	Soil	June 28, 2023 13:46	06/28/2023 17:15

A pH rerun was requested per Grace's email on 07/10/2023. No errors were found in the original data, all three results are reported. JAB

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 - Foos C 27-18

**WH-FS-01@6'**  
**6/28/2023 1:46:00PM**

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

**Origins Laboratory, Inc.**  
**Y306809-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.407		0.0988	mg/L	1	B3G0304	07/03/2023	07/05/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3F3001	06/30/2023	07/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	102 %		50-150			"	"	"	
------------------------	-------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3F3042	06/30/2023	07/05/2023	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	0.272		0.200	"	"	"	"	"	

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 - Foos C 27-18

**WH-FS-01@6'**  
**6/28/2023 1:46:00PM**

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

**Origins Laboratory, Inc.**  
**Y306809-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	96.2 %		70-130			B3F30 42	06/30/2023	07/05/2023	
Surrogate: Toluene-d8	90.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	79.7 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>3.41</b>		0.499	meq/L	10	[CALC]	06/30/2023	07/03/2023	
Magnesium	<b>1.45</b>		0.823	"	"	"	"	"	
Sodium	<b>4.99</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L691186	07/06/2023	07/06/2023	
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	"	"	"	"	"	

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 - Foos C 27-18

**WH-FS-01@6'**  
**6/28/2023 1:46:00PM**

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

**Waypoint Analytical, LLC.**  
**Y306809-01 (Soil)**

**PAH by 8270D SIM**

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L691186	07/06/2023	07/06/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	50.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	48.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	42.7 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.34			pH Units	1	B3F3015	06/30/2023	07/01/2023	
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**SAR by 20B Saturated Paste**

SAR	3.20			SAR	1	B3F3007	06/30/2023	07/03/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.13		0.00500	mmhos/cm	1	B3F3015	06/30/2023	07/01/2023	
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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 - Foos C 27-18

**WH-FS-01@6'**

**6/28/2023 1:46:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306809-01RE1 (Soil)**

**pH in Soil by 9045D**

pH	8.20			pH Units	1	B3G1116	06/30/2023	07/12/2023	
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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 - Foos C 27-18

**WH-FS-01@6'**

**6/28/2023 1:46:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306809-01RE2 (Soil)**

**pH in Soil by 9045D**

pH	8.26			pH Units	1	B3G1116	06/30/2023	07/12/2023	
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B3F3001 - EPA 3550B</b>										
<b>Blank (B3F3001-BLK1)</b>										
					Prepared: 06/30/2023 Analyzed: 07/03/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		105	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B3F3001 - EPA 3550B**

**LCS (B3F3001-BS1)**

Prepared: 06/30/2023 Analyzed: 07/03/2023

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1220	200	"	1000		122	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B3F3001 - EPA 3550B**

<b>Matrix Spike (B3F3001-MS1)</b>	<b>Source: Y306751-01</b>			<b>Prepared: 06/30/2023 Analyzed: 07/03/2023</b>						
Diesel (C10-C28)	813	50.0	mg/kg	1000	ND	81.3	70-130			
Residual Range Organics (C28-C40)	999	200	"	1000	ND	99.9	70-130			
<i>Surrogate: o-Terphenyl</i>	42		"	49.8		83.8	50-150			

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 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B3F3001 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3F3001-MSD1)</b>					<b>Source: Y306751-01</b>					Prepared: 06/30/2023 Analyzed: 07/03/2023
Diesel (C10-C28)	968	50.0	mg/kg	1000	ND	96.8	70-130	17.5	35	
Residual Range Organics (C28-C40)	1210	200	"	1000	ND	121	70-130	18.9	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B3F3042 - EPA 5030 (soil)**

**Blank (B3F3042-BLK1)**

Prepared: 06/30/2023 Analyzed: 07/05/2023

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	0.11		"	0.125	88.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	80.5		70-130			

Origins Laboratory, Inc.



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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B3F3042 - EPA 5030 (soil)

**LCS (B3F3042-BS1)**

Prepared: 06/30/2023 Analyzed: 07/05/2023

1,2,4-Trimethylbenzene	0.0905	0.00200	mg/kg	0.100		90.5	70-130			
1,3,5-Trimethylbenzene	0.0922	0.00200	"	0.100		92.2	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.0890	0.00200	"	0.100		89.0	70-130			
Naphthalene	0.0747	0.00380	"	0.100		74.7	70-130			
Toluene	0.0920	0.00200	"	0.100		92.0	70-130			
o-Xylene	0.0901	0.00200	"	0.100		90.1	70-130			
m,p-Xylene	0.181	0.00400	"	0.200		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.7	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B3F3042 - EPA 5030 (soil)

Matrix Spike (B3F3042-MS1)	Source: Y306805-01			Prepared: 06/30/2023 Analyzed: 07/05/2023						
1,2,4-Trimethylbenzene	0.0893	0.00200	mg/kg	0.100	ND	89.3	70-130			
1,3,5-Trimethylbenzene	0.0884	0.00200	"	0.100	ND	88.4	70-130			
Benzene	0.0900	0.00200	"	0.100	ND	90.0	70-130			
Ethylbenzene	0.0846	0.00200	"	0.100	ND	84.6	70-130			
Naphthalene	0.0756	0.00380	"	0.100	ND	75.6	70-130			
Toluene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
o-Xylene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.2	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B3F3042 - EPA 5030 (soil)

Matrix Spike Dup (B3F3042-MSD1)	Source: Y306805-01			Prepared: 06/30/2023 Analyzed: 07/05/2023						
1,2,4-Trimethylbenzene	0.0850	0.00200	mg/kg	0.100	ND	85.0	70-130	4.98	20	
1,3,5-Trimethylbenzene	0.0848	0.00200	"	0.100	ND	84.8	70-130	4.16	20	
Benzene	0.0888	0.00200	"	0.100	ND	88.8	70-130	1.36	20	
Ethylbenzene	0.0791	0.00200	"	0.100	ND	79.1	70-130	6.77	20	
Naphthalene	0.0805	0.00380	"	0.100	ND	80.5	70-130	6.36	20	
Toluene	0.0773	0.00200	"	0.100	ND	77.3	70-130	7.78	20	
o-Xylene	0.0828	0.00200	"	0.100	ND	82.8	70-130	5.04	20	
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.6	70-130	7.92	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		85.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.7	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B3F3007 - Saturated Paste Metals**

**Blank (B3F3007-BLK1)**

Prepared: 06/30/2023 Analyzed: 07/03/2023

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

**Duplicate (B3F3007-DUP1)**

Source: Y306805-01

Prepared: 06/30/2023 Analyzed: 07/03/2023

SAR	0.00		SAR		1.92			200	200	
Calcium PPM	17.2	10.0	mg/L		20.0			15.4	50	
Magnesium PPM	4.83	10.0	"		5.44			11.9	50	
Sodium PPM	36.0	10.0	"		37.5			4.22	50	

**Batch B3G0304 - DTPA Sorbitol Preparation**

**Blank (B3G0304-BLK1)**

Prepared: 07/03/2023 Analyzed: 07/05/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3G0304-DUP1)**

Source: Y306809-01

Prepared: 07/03/2023 Analyzed: 07/05/2023

Boron	0.376	0.0994	mg/L		0.407			7.81	50	
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B3F3015 - Saturated Paste pH/EC</b>										
<b>Blank (B3F3015-BLK1)</b>					Prepared: 06/30/2023 Analyzed: 07/01/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3F3015-DUP1)</b>					<b>Source: Y306805-01</b> Prepared: 06/30/2023 Analyzed: 07/01/2023					
Specific Conductance (EC)	0.292	0.00500	mmhos/cm		0.301		3.17		25	
pH	8.41		pH Units		8.43		0.238		25	
<b>Batch B3G1116 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3G1116-DUP1)</b>					<b>Source: Y307143-01</b> Prepared: 07/11/2023 Analyzed: 07/12/2023					
pH	7.36		pH Units		7.56		2.68		25	

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 L691186 - 3550B**

<b>MSD (L 94678-MSD-L691186)</b>		<b>Source: 94678</b>			Prepared: 07/06/2023 Analyzed: 07/06/2023					
Dibenz(a,h)anthracene	0.114	0.00067	mg/Kg	0.164	<0.000614	69.5	30-130	3.4	30	
2-Methylnaphthalene	0.0954	0.00201	"	0.164	<0.00194	58.1	30-130	4.2	30	
Pyrene	0.0802	0.00067	"	0.164	<0.000643	48.9	30-130	9.7	30	
Indeno(1,2,3-cd)pyrene	0.0724	0.00067	"	0.164	0.000638	43.7	30-130	9.7	30	
Fluoranthene	0.0833	0.00067	"	0.164	<0.000394	50.7	30-130	12.8	30	
Chrysene	0.0961	0.00067	"	0.164	<0.000624	58.5	30-130	12.5	30	
Acenaphthene	0.0963	0.00067	"	0.164	<0.000304	58.7	30-130	5.7	30	
Fluorene	0.106	0.00067	"	0.164	<0.000286	64.6	30-130	7.2	30	
Benzo(k)fluoranthene	0.067	0.00067	"	0.164	<0.000437	40.8	30-130	29.8	30	
Anthracene	0.103	0.00067	"	0.164	<0.000334	62.8	30-130	9.2	30	
Benzo(a)anthracene	0.0949	0.00067	"	0.164	<0.000493	57.8	30-130	4.6	30	
Benzo(a)pyrene	0.108	0.00067	"	0.164	<0.000468	65.8	30-130	3.6	30	
Benzo(b)fluoranthene	0.0639	0.00067	"	0.164	<0.000585	38.9	30-130	10.5	30	
1-Methylnaphthalene	0.0919	0.00201	"	0.164	<0.00109	56	30-130	4.6	30	
Surrogate: Nitrobenzene-d5	41		"	0.329	148	41	29-110			
Surrogate: 2-Fluorobiphenyl	51		"	0.329	180	51	33-115			
Surrogate: 4-Terphenyl-d14	44.6		"	0.329	163	44.6	33-122			

<b>MS (L 94678-MS-L691186)</b>		<b>Source: 94678</b>			Prepared: 07/06/2023 Analyzed: 07/06/2023					
Chrysene	0.109	0.00067	mg/Kg	0.166	<0.000624	65.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0798	0.00067	"	0.166	0.000638	47.6	30-130			
Fluorene	0.114	0.00067	"	0.166	<0.000286	68.6	30-130			
Fluoranthene	0.0947	0.00067	"	0.166	<0.000394	57	30-130			
Dibenz(a,h)anthracene	0.118	0.00067	"	0.166	<0.000614	71	30-130			
2-Methylnaphthalene	0.0995	0.00201	"	0.166	<0.00194	59.9	30-130			
Benzo(b)fluoranthene	0.071	0.00067	"	0.166	<0.000585	42.7	30-130			
Benzo(a)pyrene	0.112	0.00067	"	0.166	<0.000468	67.4	30-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 L691186 - 3550B**

<b>MS (L 94678-MS-L691186)</b>		<b>Source: 94678</b>			<b>Prepared: 07/06/2023 Analyzed: 07/06/2023</b>					
Benzo(a)anthracene	0.0994	0.00067	mg/Kg	0.166	<0.000493	59.8	30-130			
Acenaphthene	0.102	0.00067	"	0.166	<0.000304	61.4	30-130			
Pyrene	0.0884	0.00067	"	0.166	<0.000643	53.2	30-130			
Benzo(k)fluoranthene	0.0905	0.00067	"	0.166	<0.000437	54.5	30-130			
Anthracene	0.113	0.00067	"	0.166	<0.000334	68	30-130			
1-Methylnaphthalene	0.0963	0.00201	"	0.166	<0.00109	58	30-130			
Surrogate: 4-Terphenyl-d14	47.8		"	0.332	163	47.8	33-122			
Surrogate: Nitrobenzene-d5	40.3		"	0.332	148	40.3	29-110			
Surrogate: 2-Fluorobiphenyl	50.3		"	0.332	180	50.3	33-115			

<b>LCS (LCS-L691186)</b>					<b>Prepared: 07/06/2023 Analyzed: 07/06/2023</b>					
Dibenz(a,h)anthracene	0.134	0.00067	mg/Kg	0.167		80.2	30-130			
Fluoranthene	0.1	0.00067	"	0.167		59.8	30-130			
Pyrene	0.0964	0.00067	"	0.167		57.7	30-130			
Fluorene	0.111	0.00067	"	0.167		66.4	30-130			
Chrysene	0.115	0.00067	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0954	0.00067	"	0.167		57.1	30-130			
1-Methylnaphthalene	0.0913	0.00201	"	0.167		54.6	30-130			
Benzo(b)fluoranthene	0.0745	0.00067	"	0.167		44.6	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.167		70	30-130			
Benzo(a)anthracene	0.104	0.00067	"	0.167		62.2	30-130			
Anthracene	0.116	0.00067	"	0.167		69.4	30-130			
Acenaphthene	0.0963	0.00067	"	0.167		57.6	30-130			
2-Methylnaphthalene	0.0947	0.00201	"	0.167		56.7	30-130			
Benzo(k)fluoranthene	0.0864	0.00067	"	0.167		51.7	30-130			
Surrogate: Nitrobenzene-d5	42.9		"	0.333		42.9	29-110			
Surrogate: 4-Terphenyl-d14	56.1		"	0.333		56.1	33-122			

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 - Foos C 27-18

**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
<b>Batch L691186 - 3550B</b>										
<b>LCS (LCS-L691186)</b>					Prepared: 07/06/2023 Analyzed: 07/06/2023					
Surrogate: 2-Fluorobiphenyl	51.9		mg/Kg	0.333		51.9	33-115			
<b>LRB (LRB-L691186)</b>					Prepared: 07/06/2023 Analyzed: 07/06/2023					
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	"				-			
2-Methylnaphthalene	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	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	29.5		"	0.333		29.5	29-110			
Surrogate: 4-Terphenyl-d14	36.6		"	0.333		36.6	33-122			
Surrogate: 2-Fluorobiphenyl	34.2		"	0.333		34.2	33-115			

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 - Foos C 27-18

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### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported 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.



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



July 19, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Foos C 27-18

Project Number - [none]

Attached are your analytical results for Noble - Foos C 27-18 received by Origins Laboratory, Inc. July 11, 2023. This project is associated with Origins project number Y307203-01.

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 - Foos C 27-18

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y307203-01	Soil	June 28, 2023 13:48	07/11/2023 16:00

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 - Foos C 27-18

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 1307203

Client: Eagle  
 Client Project ID: Foos C #27-18

Checklist Completed by: TSH/EHS

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

Date/time completed: 7/12/23

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


Cooler Number/Temperature: 1 / 3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: TOOH

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 7/13/23

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 - Foos C 27-18

**Background-01@2'**  
**6/28/2023 1:48:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307203-01 (Soil)**

**pH in Soil by 9045D**

pH	7.92		pH Units	1	B3G1508	ACN	07/15/2023	07/16/2023	
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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 - Foos C 27-18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3G1508 - Saturated Paste pH/EC**

**Duplicate (B3G1508-DUP1)**

**Source: Y307202-01**

Prepared: 07/15/2023 Analyzed: 07/16/2023

pH	7.89		pH Units		7.90			0.127	25	
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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 - Foos C 27-18

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### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*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.*



February 08, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Foos C 27-18

Project Number - [none]

Attached are your analytical results for Noble - Foos C 27-18 received by Origins Laboratory, Inc. January 29, 2024. This project is associated with Origins project number Y401724-01.

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Foos C 27-18

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-03@4'	Y401724-01	Soil	January 29, 2024 10:36	01/29/2024 15:50
FL-SS-04@4'	Y401724-02	Soil	January 29, 2024 10:58	01/29/2024 15:50
FL-SS-06@4'	Y401724-03	Soil	January 29, 2024 12:05	01/29/2024 15:50
Background-02@2'	Y401724-04	Soil	January 29, 2024 12:10	01/29/2024 15:50

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y401724

Client: Eagle

Client Project ID: Foos C 27-18

Checklist Completed by: EHS

Shipped Via: HO

Date/time completed: 1/29/24

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

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

Cooler Number/Temperature: 1, 1.9 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/31/24

Origins Laboratory, Inc.

[Signature]

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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**FL-SS-03@4'**

**1/29/2024 10:36:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401724-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.668	0.0983	mg/L	1	B4B0114	ACC	02/01/2024	02/02/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3002	ZZZ	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	98.5 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A3121	JSM	01/31/2024	01/31/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

FL-SS-03@4'

1/29/2024 10:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y401724-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	9.31	0.499	meq/L	10	[CALC]	ACC	01/31/2024	02/01/2024	
Magnesium	4.26	0.823	"	"	"	ACC	"	"	
Sodium	14.0	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A3029	Windo	01/30/2024	02/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**FL-SS-03@4'**

**1/29/2024 10:36:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401724-01 (Soil)**

**PAH by EPA 8270E**

Surrogate: Fluorene-d10	100 %	60-130			B4A30 29		01/30/2024	02/06/2024	
Surrogate: Anthracene-d10	95.4 %	60-130			"		"	"	
Surrogate: Pyrene-d10	98.8 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	8.26		pH Units	1	B4A3117	EAL	01/31/2024	02/01/2024	
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**SAR by 20B Saturated Paste**

SAR	5.37	0.0100	SAR	1	B4A3113	ACC	01/31/2024	02/01/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.54	0.00500	mmhos/cm	1	B4A3117	EAL	01/31/2024	02/01/2024	
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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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

FL-SS-04@4'

1/29/2024 10:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y401724-02 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.647	0.101	mg/L	1	B4B0114	ACC	02/01/2024	02/02/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3002	ZZZ	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	90.1 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A3121	JSM	01/31/2024	01/31/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.2 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

FL-SS-04@4'

1/29/2024 10:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y401724-02 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	8.00	0.499	meq/L	10	[CALC]	ACC	01/31/2024	02/01/2024	
Magnesium	3.66	0.823	"	"	"	ACC	"	"	
Sodium	13.0	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A3029	Windo	01/30/2024	02/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**FL-SS-04@4'**

**1/29/2024 10:58:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y401724-02 (Soil)**

**PAH by EPA 8270E**

Surrogate: Fluorene-d10	99.3 %	60-130			B4A30 29		01/30/2024	02/06/2024	
Surrogate: Anthracene-d10	94.8 %	60-130			"		"	"	
Surrogate: Pyrene-d10	102 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	8.49		pH Units	1	B4A3117	EAL	01/31/2024	02/01/2024	
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**SAR by 20B Saturated Paste**

SAR	5.40	0.0100	SAR	1	B4A3113	ACC	01/31/2024	02/01/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.31	0.00500	mmhos/cm	1	B4A3117	EAL	01/31/2024	02/01/2024	
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**FL-SS-06@4'**

**1/29/2024 12:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401724-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.239	0.101	mg/L	1	B4B0114	ACC	02/01/2024	02/02/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3002	ZZZ	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	99.7 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A3023	HKS	01/30/2024	02/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	02/01/2024	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	02/01/2024	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	02/01/2024	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"		02/01/2024	
Surrogate: Toluene-d8	98.7 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"		"	

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Andrew Newberry  
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 Project: Noble - Foos C 27-18

FL-SS-06@4'

1/29/2024 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y401724-03 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	44.9	0.499	meq/L	10	[CALC]	ACC	01/31/2024	02/01/2024
Magnesium	15.1	0.823	"	"	"	ACC	"	"
Sodium	5.53	0.435	"	"	"	ACC	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4A3029	Windo	01/30/2024	02/06/2024
2-Methylnaphthalene	0.004	0.002	"	"	"	Windo	"	"
Acenaphthene	0.090	0.020	"	"	"	Windo	"	"
Anthracene	0.412	0.020	"	"	"	Windo	"	"
Benzo (a) anthracene	0.393	0.005	"	"	"	Windo	"	"
Benzo (a) pyrene	0.269	0.020	"	"	"	Windo	"	"
Benzo (b) fluoranthene	0.304	0.020	"	"	"	Windo	"	"
Benzo (k) fluoranthene	0.138	0.020	"	"	"	Windo	"	"
Chrysene	0.456	0.020	"	"	"	Windo	"	"
Dibenz (a,h) anthracene	0.056	0.020	"	"	"	Windo	"	"
Fluoranthene	1.25	0.200	"	10	"	Windo	"	02/07/2024
Fluorene	0.112	0.020	"	1	"	Windo	"	02/06/2024
Indeno (1,2,3-cd) pyrene	0.159	0.020	"	"	"	Windo	"	"
Pyrene	0.991	0.020	"	"	"	Windo	"	"

Surrogate: Fluorene-d10	98.7 %	60-130			"	"	"
Surrogate: Anthracene-d10	97.1 %	60-130			"	"	"
Surrogate: Pyrene-d10	100 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130			"	"	"

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**FL-SS-06@4'**

**1/29/2024 12:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401724-03 (Soil)**

**pH in Soil by 9045D**

pH	5.13		pH Units	1	B4A3117	EAL	01/31/2024	02/01/2024	
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**SAR by 20B Saturated Paste**

SAR	1.01	0.0100	SAR	1	B4A3113	ACC	01/31/2024	02/01/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	7.14	0.00500	mmhos/cm	1	B4A3117	EAL	01/31/2024	02/01/2024	
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 Project: Noble - Foos C 27-18

**Background-02@2'**  
**1/29/2024 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401724-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.405	0.0986	mg/L	1	B4B0114	ACC	02/01/2024	02/02/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	5.37	0.499	meq/L	10	[CALC]	ACC	01/31/2024	02/01/2024	
Magnesium	2.46	0.823	"	"	"	ACC	"	"	
Sodium	9.10	0.435	"	"	"	ACC	"	"	

**pH in Soil by 9045D**

pH	8.20		pH Units	1	B4A3117	EAL	01/31/2024	02/01/2024	
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**SAR by 20B Saturated Paste**

SAR	4.60	0.0100	SAR	1	B4A3113	ACC	01/31/2024	02/01/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.72	0.00500	mmhos/cm	1	B4A3117	EAL	01/31/2024	02/01/2024	
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 Project: Noble - Foos C 27-18

**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 B4A3002 - EPA 3550B</b>										
<b>Blank (B4A3002-BLK1)</b>										
					Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		90.6	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3002 - EPA 3550B**

**LCS (B4A3002-BS1)**

Prepared: 01/30/2024 Analyzed: 02/03/2024

Diesel (C10-C28)	907	50.0	mg/kg	1000		90.7	70-130			
Residual Range Organics (C28-C40)	985	200	"	1000		98.5	70-130			
Surrogate: o-Terphenyl	63		"	49.8		126	50-150			

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 Project: Noble - Foos C 27-18

**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 B4A3002 - EPA 3550B**

<b>Matrix Spike (B4A3002-MS1)</b>	<b>Source: Y401673-05</b>			<b>Prepared: 01/30/2024 Analyzed: 02/03/2024</b>						
Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130			
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	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
<b>Batch B4A3002 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4A3002-MSD1)</b>					<b>Source: Y401673-05</b>					Prepared: 01/30/2024 Analyzed: 02/03/2024
Diesel (C10-C28)	914	50.0	mg/kg	1000	ND	91.4	70-130	2.62	35	
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130	3.93	35	
Surrogate: o-Terphenyl	47		"	49.8		94.7	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
<b>Batch B4A3023 - EPA 5030 (soil)</b>										
<b>Blank (B4A3023-BLK1)</b>										
					Prepared: 01/30/2024 Analyzed: 02/01/2024					
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	0.11		"	0.125		87.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3023 - EPA 5030 (soil)**

**LCS (B4A3023-BS1)**

Prepared: 01/30/2024 Analyzed: 02/01/2024

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.0957	0.00200	"	0.100		95.7	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.0932	0.00200	"	0.100		93.2	70-130			
o-Xylene	0.0931	0.00200	"	0.100		93.1	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	70-130			

Origins Laboratory, Inc.



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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3023 - EPA 5030 (soil)

Matrix Spike (B4A3023-MS1)	Source: Y401706-01			Prepared: 01/30/2024 Analyzed: 02/01/2024						
1,2,4-Trimethylbenzene	0.0894	0.00200	mg/kg	0.100	ND	89.4	70-130			
1,3,5-Trimethylbenzene	0.0855	0.00200	"	0.100	ND	85.5	70-130			
Benzene	0.0882	0.00200	"	0.100	ND	88.2	70-130			
Ethylbenzene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
Naphthalene	0.0840	0.00380	"	0.100	ND	84.0	70-130			
Toluene	0.0818	0.00200	"	0.100	ND	81.8	70-130			
o-Xylene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
m,p-Xylene	0.172	0.00400	"	0.200	ND	85.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

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 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3023 - EPA 5030 (soil)

Matrix Spike Dup (B4A3023-MSD1)	Source: Y401706-01			Prepared: 01/30/2024 Analyzed: 02/01/2024						
1,2,4-Trimethylbenzene	0.0945	0.00200	mg/kg	0.100	ND	94.5	70-130	5.59	20	
1,3,5-Trimethylbenzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	6.43	20	
Benzene	0.0978	0.00200	"	0.100	ND	97.8	70-130	10.3	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	6.99	20	
Naphthalene	0.0887	0.00380	"	0.100	ND	88.7	70-130	5.49	20	
Toluene	0.0879	0.00200	"	0.100	ND	87.9	70-130	7.17	20	
o-Xylene	0.0909	0.00200	"	0.100	ND	90.9	70-130	7.73	20	
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.7	70-130	7.62	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3121 - EPA 5030 (soil)**

**Blank (B4A3121-BLK1)**

Prepared: 01/31/2024 Analyzed: 01/31/2024

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	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.7		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3121 - EPA 5030 (soil)**

**LCS (B4A3121-BS1)**

Prepared: 01/31/2024 Analyzed: 01/31/2024

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.0868	0.00200	"	0.100		86.8	70-130			
Ethylbenzene	0.0882	0.00200	"	0.100		88.2	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0861	0.00200	"	0.100		86.1	70-130			
o-Xylene	0.0874	0.00200	"	0.100		87.4	70-130			
m,p-Xylene	0.176	0.00400	"	0.200		87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3121 - EPA 5030 (soil)

Matrix Spike (B4A3121-MS1)	Source: Y401658-12			Prepared: 01/31/2024 Analyzed: 01/31/2024						
1,2,4-Trimethylbenzene	0.0989	0.00200	mg/kg	0.100	ND	98.9	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100	ND	97.9	70-130			
Benzene	0.0855	0.00200	"	0.100	0.00140	84.1	70-130			
Ethylbenzene	0.0868	0.00200	"	0.100	0.00104	85.8	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.0830	0.00200	"	0.100	0.00204	81.0	70-130			
o-Xylene	0.0871	0.00200	"	0.100	0.000520	86.5	70-130			
m,p-Xylene	0.173	0.00400	"	0.200	0.00132	86.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3121 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B4A3121-MSD1)</b>		<b>Source: Y401658-12</b>			Prepared: 01/31/2024 Analyzed: 01/31/2024					
1,2,4-Trimethylbenzene	0.0619	0.00200	mg/kg	0.100	ND	61.9	70-130	46.0	20	QM-07, QR-03
1,3,5-Trimethylbenzene	0.0603	0.00200	"	0.100	ND	60.3	70-130	47.5	20	QM-07, QR-03
Benzene	0.0586	0.00200	"	0.100	0.00140	57.2	70-130	37.3	20	QM-07, QR-03
Ethylbenzene	0.0535	0.00200	"	0.100	0.00104	52.4	70-130	47.5	20	QM-07, QR-03
Naphthalene	0.0664	0.00380	"	0.100	ND	66.4	70-130	40.9	20	QM-07, QR-03
Toluene	0.0565	0.00200	"	0.100	0.00204	54.4	70-130	38.1	20	QM-07, QR-03
o-Xylene	0.0541	0.00200	"	0.100	0.000520	53.5	70-130	46.8	20	QM-07, QR-03
m,p-Xylene	0.107	0.00400	"	0.200	0.00132	53.0	70-130	47.2	20	QM-07, QR-03
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A3029 - EPA 3580**

**Blank (B4A3029-BLK1)**

Prepared: 01/30/2024 Analyzed: 02/06/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	200		"	200		98.5	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A3029 - EPA 3580**

**LCS (B4A3029-BS1)**

Prepared: 01/30/2024 Analyzed: 02/06/2024

1-Methylnaphthalene	0.183	0.002	mg/kg	0.200		91.7	70-130			
2-Methylnaphthalene	0.182	0.002	"	0.200		91.2	70-130			
Acenaphthene	0.180	0.020	"	0.200		90.0	70-130			
Anthracene	0.188	0.020	"	0.200		94.1	70-130			
Benzo (a) anthracene	0.187	0.005	"	0.200		93.4	70-130			
Benzo (a) pyrene	0.168	0.020	"	0.200		83.8	70-130			
Benzo (b) fluoranthene	0.187	0.020	"	0.200		93.4	70-130			
Benzo (g,h,i) perylene	0.184	0.020	"	0.200		92.1	70-130			
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.7	70-130			
Chrysene	0.184	0.020	"	0.200		92.1	70-130			
Dibenz (a,h) anthracene	0.185	0.020	"	0.200		92.3	70-130			
Fluoranthene	0.175	0.020	"	0.200		87.4	70-130			
Fluorene	0.179	0.020	"	0.200		89.3	70-130			
Indeno (1,2,3-cd) pyrene	0.184	0.020	"	0.200		91.8	70-130			
Naphthalene	0.183	0.002	"	0.200		91.4	70-130			
Phenanthrene	0.172	0.020	"	0.200		86.1	70-130			
Pyrene	0.181	0.020	"	0.200		90.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	200		"	200		98.5	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

**Matrix Spike (B4A3029-MS1)**

**Source: Y401658-01**

Prepared: 01/30/2024 Analyzed: 02/06/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.012	90.4	70-130			
2-Methylnaphthalene	0.201	0.002	"	0.200	0.018	91.2	70-130			
Acenaphthene	0.182	0.020	"	0.200	0.003	89.3	70-130			
Anthracene	0.173	0.020	"	0.200	ND	86.4	70-130			

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A3029 - EPA 3580**

<b>Matrix Spike (B4A3029-MS1)</b>		<b>Source: Y401658-01</b>			Prepared: 01/30/2024 Analyzed: 02/06/2024					
Benzo (a) anthracene	0.178	0.005	mg/kg	0.200	ND	89.2	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200	ND	96.0	70-130			
Benzo (b) fluoranthene	0.195	0.020	"	0.200	ND	97.6	70-130			
Benzo (g,h,i) perylene	0.186	0.020	"	0.200	ND	93.1	70-130			
Benzo (k) fluoranthene	0.172	0.020	"	0.200	ND	85.9	70-130			
Chrysene	0.177	0.020	"	0.200	0.001	87.8	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	97.9	70-130			
Fluoranthene	0.175	0.020	"	0.200	0.0008	86.9	70-130			
Fluorene	0.182	0.020	"	0.200	0.004	89.1	70-130			
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.3	70-130			
Naphthalene	0.186	0.002	"	0.200	0.004	90.9	70-130			
Phenanthrene	0.177	0.020	"	0.200	0.005	85.9	70-130			
Pyrene	0.177	0.020	"	0.200	0.001	87.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	200		"	200		98.1	60-130			
Surrogate: Pyrene-d10	190		"	200		96.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

<b>Matrix Spike Dup (B4A3029-MSD1)</b>		<b>Source: Y401658-01</b>			Prepared: 01/30/2024 Analyzed: 02/06/2024					
1-Methylnaphthalene	0.188	0.002	mg/kg	0.200	0.012	88.0	70-130	2.53	20	
2-Methylnaphthalene	0.195	0.002	"	0.200	0.018	88.3	70-130	3.01	20	
Acenaphthene	0.177	0.020	"	0.200	0.003	87.0	70-130	2.59	20	
Anthracene	0.171	0.020	"	0.200	ND	85.7	70-130	0.799	20	
Benzo (a) anthracene	0.175	0.005	"	0.200	ND	87.4	70-130	2.04	20	
Benzo (a) pyrene	0.184	0.020	"	0.200	ND	92.2	70-130	4.03	20	
Benzo (b) fluoranthene	0.171	0.020	"	0.200	ND	85.5	70-130	13.2	20	
Benzo (g,h,i) perylene	0.187	0.020	"	0.200	ND	93.6	70-130	0.504	20	

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A3029 - EPA 3580**

<b>Matrix Spike Dup (B4A3029-MSD1)</b>	<b>Source: Y401658-01</b>			<b>Prepared: 01/30/2024 Analyzed: 02/06/2024</b>						
Benzo (k) fluoranthene	0.175	0.020	mg/kg	0.200	ND	87.7	70-130	2.12	20	
Chrysene	0.183	0.020	"	0.200	0.001	90.6	70-130	3.14	20	
Dibenz (a,h) anthracene	0.188	0.020	"	0.200	ND	94.0	70-130	4.02	20	
Fluoranthene	0.174	0.020	"	0.200	0.0008	86.3	70-130	0.633	20	
Fluorene	0.176	0.020	"	0.200	0.004	86.3	70-130	3.19	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	ND	90.9	70-130	2.66	20	
Naphthalene	0.181	0.002	"	0.200	0.004	88.3	70-130	2.84	20	
Phenanthrene	0.175	0.020	"	0.200	0.005	85.3	70-130	0.697	20	
Pyrene	0.174	0.020	"	0.200	0.001	86.6	70-130	1.20	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	200		"	200		97.8	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3113 - Saturated Paste Metals**

**Blank (B4A3113-BLK1)**

Prepared: 01/31/2024 Analyzed: 02/01/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B4A3113-DUP1)**

**Source: Y401688-05**

Prepared: 01/31/2024 Analyzed: 02/01/2024

Calcium PPM	204	10.0	mg/L		302			38.5	50	
SAR	ND	0.0100	SAR		0.338				200	
Magnesium PPM	49.5	10.0	mg/L		61.8			22.2	50	
Sodium PPM	26.8	10.0	"		24.6			8.47	50	

**Batch B4B0114 - DTPA Sorbitol Preparation**

**Blank (B4B0114-BLK1)**

Prepared: 02/01/2024 Analyzed: 02/02/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4B0114-DUP1)**

**Source: Y401688-01**

Prepared: 02/01/2024 Analyzed: 02/02/2024

Boron	1.82	0.0998	mg/L		1.81			0.853	50	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3117 - Saturated Paste pH/EC</b>										
<b>Blank (B4A3117-BLK1)</b>					Prepared: 01/31/2024 Analyzed: 02/01/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4A3117-DUP1)</b>		<b>Source: Y401688-05</b>			Prepared: 01/31/2024 Analyzed: 02/01/2024					
pH	8.36		pH Units		8.28			0.962	25	
Specific Conductance (EC)	1.33	0.00500	mmhos/cm		1.67			22.6	25	

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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Foos C 27-18

### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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February 15, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Foos C 27-18

Project Number - [none]

Attached are your analytical results for Noble - Foos C 27-18 received by Origins Laboratory, Inc. January 30, 2024. This project is associated with Origins project number Y401738-01.

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Foos C 27-18

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-07@5'	Y401738-01	Soil	January 30, 2024 10:25	01/30/2024 14:05
FL-SS-12@5'	Y401738-02	Soil	January 30, 2024 10:52	01/30/2024 14:05

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 1401738

Client: Eagle

Client Project ID: Foos C 27-18

Checklist Completed by: EHS

Shipped Via: HO

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

Date/time completed: 1/30/24

Airbill #: N/A

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

Cooler Number/Temperature: 118 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T604

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/31/24

Origins Laboratory, Inc.

[Signature]

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**FL-SS-07@5'**

**1/30/2024 10:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401738-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.699	0.101	mg/L	1	B4B0114	ACC	02/01/2024	02/02/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3101	ZZZ	01/31/2024	02/02/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	88.1 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A3121	JSM	01/31/2024	01/31/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	0.00380	0.00200	"	"	"	JSM	"	"	
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

FL-SS-07@5'

1/30/2024 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y401738-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	3.08	0.499	meq/L	10	[CALC]	ACC	02/02/2024	02/05/2024	
Magnesium	1.43	0.823	"	"	"	ACC	"	"	
Sodium	6.22	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4A3106	Windo	01/31/2024	02/09/2024	
2-Methylnaphthalene	0.004	0.002	"	"	"	Windo	"	"	
Acenaphthene	0.022	0.020	"	"	"	Windo	"	"	
Anthracene	0.031	0.020	"	"	"	Windo	"	"	
Benzo (a) anthracene	0.029	0.005	"	"	"	Windo	"	"	
Benzo (a) pyrene	0.025	0.020	"	"	"	Windo	"	"	
Benzo (b) fluoranthene	0.043	0.020	"	"	"	Windo	"	"	
Benzo (k) fluoranthene	0.045	0.020	"	"	"	Windo	"	"	
Chrysene	0.035	0.020	"	"	"	Windo	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	0.091	0.020	"	"	"	Windo	"	"	
Fluorene	0.026	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	0.074	0.020	"	"	"	Windo	"	"	

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	94.5 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	101 %	60-130			"	"	"	"	

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**FL-SS-07@5'**

**1/30/2024 10:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401738-01 (Soil)**

**PAH by EPA 8270E**

Surrogate: Benzo (a) pyrene-d12	101 %	60-130			B4A31 06	01/31/2024	02/09/2024
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**pH in Soil by 9045D**

pH	8.24		pH Units	1	B4B0215	ACN	02/02/2024	02/03/2024
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**SAR by 20B Saturated Paste**

SAR	4.14	0.0100	SAR	1	B4B0210	ACC	02/02/2024	02/05/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.20	0.00500	mmhos/cm	1	B4B0215	ACN	02/02/2024	02/03/2024
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**FL-SS-12@5'**

**1/30/2024 10:52:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401738-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.660	0.101	mg/L	1	B4B0114	ACC	02/01/2024	02/02/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3101	ZZZ	01/31/2024	02/02/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.8 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A3121	JSM	01/31/2024	01/31/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.4 %	70-130			"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**FL-SS-12@5'**

**1/30/2024 10:52:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401738-02 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	3.16	0.499	meq/L	10	[CALC]	ACC	02/02/2024	02/05/2024	
Magnesium	1.35	0.823	"	"	"	ACC	"	"	
Sodium	8.22	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A3106	Windo	01/31/2024	02/09/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	0.012	0.005	"	"	"	Windo	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	0.021	0.020	"	"	"	Windo	"	"	
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	0.033	0.020	"	"	"	Windo	"	"	
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	0.028	0.020	"	"	"	Windo	"	"	

Surrogate: Fluorene-d10      101 %      60-130      "      "      "

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**FL-SS-12@5'**

**1/30/2024 10:52:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401738-02 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	92.9 %	60-130			B4A31 06		01/31/2024	02/09/2024	
Surrogate: Pyrene-d10	97.9 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	8.32		pH Units	1	B4B0215	ACN	02/02/2024	02/03/2024	
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**SAR by 20B Saturated Paste**

SAR	5.47	0.0100	SAR	1	B4B0210	ACC	02/02/2024	02/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.32	0.00500	mmhos/cm	1	B4B0215	ACN	02/02/2024	02/03/2024	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3101 - EPA 3550B</b>										
<b>Blank (B4A3101-BLK1)</b>										
					Prepared: 01/31/2024 Analyzed: 02/02/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		98.1	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3101 - EPA 3550B</b>										
<b>LCS (B4A3101-BS1)</b>					Prepared: 01/31/2024 Analyzed: 02/02/2024					
Diesel (C10-C28)	893	50.0	mg/kg	1000		89.3	70-130			
Residual Range Organics (C28-C40)	966	200	"	1000		96.6	70-130			
Surrogate: o-Terphenyl	61		"	49.8		122	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3101 - EPA 3550B**

<b>Matrix Spike (B4A3101-MS1)</b>	<b>Source: Y401738-01</b>			<b>Prepared: 01/31/2024 Analyzed: 02/02/2024</b>						
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3101 - EPA 3550B**

<b>Matrix Spike Dup (B4A3101-MSD1)</b>	<b>Source: Y401738-01</b>		<b>Prepared: 01/31/2024 Analyzed: 02/02/2024</b>							
Diesel (C10-C28)	923	50.0	mg/kg	1000	ND	92.3	70-130	1.69	35	
Residual Range Organics (C28-C40)	989	200	"	1000	ND	98.9	70-130	2.63	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3121 - EPA 5030 (soil)**

**Blank (B4A3121-BLK1)**

Prepared: 01/31/2024 Analyzed: 01/31/2024

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	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.7		70-130			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3121 - EPA 5030 (soil)**

**LCS (B4A3121-BS1)**

Prepared: 01/31/2024 Analyzed: 01/31/2024

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.0868	0.00200	"	0.100		86.8	70-130			
Ethylbenzene	0.0882	0.00200	"	0.100		88.2	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0861	0.00200	"	0.100		86.1	70-130			
o-Xylene	0.0874	0.00200	"	0.100		87.4	70-130			
m,p-Xylene	0.176	0.00400	"	0.200		87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3121 - EPA 5030 (soil)

Matrix Spike (B4A3121-MS1)	Source: Y401658-12			Prepared: 01/31/2024 Analyzed: 01/31/2024						
1,2,4-Trimethylbenzene	0.0989	0.00200	mg/kg	0.100	ND	98.9	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100	ND	97.9	70-130			
Benzene	0.0855	0.00200	"	0.100	0.00140	84.1	70-130			
Ethylbenzene	0.0868	0.00200	"	0.100	0.00104	85.8	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.0830	0.00200	"	0.100	0.00204	81.0	70-130			
o-Xylene	0.0871	0.00200	"	0.100	0.000520	86.5	70-130			
m,p-Xylene	0.173	0.00400	"	0.200	0.00132	86.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**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 B4A3121 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B4A3121-MSD1)</b>			<b>Source: Y401658-12</b>			Prepared: 01/31/2024 Analyzed: 01/31/2024				
1,2,4-Trimethylbenzene	0.0619	0.00200	mg/kg	0.100	ND	61.9	70-130	46.0	20	QM-07, QR-03
1,3,5-Trimethylbenzene	0.0603	0.00200	"	0.100	ND	60.3	70-130	47.5	20	QM-07, QR-03
Benzene	0.0586	0.00200	"	0.100	0.00140	57.2	70-130	37.3	20	QM-07, QR-03
Ethylbenzene	0.0535	0.00200	"	0.100	0.00104	52.4	70-130	47.5	20	QM-07, QR-03
Naphthalene	0.0664	0.00380	"	0.100	ND	66.4	70-130	40.9	20	QM-07, QR-03
Toluene	0.0565	0.00200	"	0.100	0.00204	54.4	70-130	38.1	20	QM-07, QR-03
o-Xylene	0.0541	0.00200	"	0.100	0.000520	53.5	70-130	46.8	20	QM-07, QR-03
m,p-Xylene	0.107	0.00400	"	0.200	0.00132	53.0	70-130	47.2	20	QM-07, QR-03
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A3106 - EPA 3580**

**Blank (B4A3106-BLK1)**

Prepared: 01/31/2024 Analyzed: 02/09/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.1	60-130			
Surrogate: Pyrene-d10	190		"	200		96.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A3106 - EPA 3580**

**LCS (B4A3106-BS1)**

Prepared: 01/31/2024 Analyzed: 02/09/2024

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200		89.7	70-130			
2-Methylnaphthalene	0.179	0.002	"	0.200		89.5	70-130			
Acenaphthene	0.178	0.020	"	0.200		89.1	70-130			
Anthracene	0.173	0.020	"	0.200		86.5	70-130			
Benzo (a) anthracene	0.185	0.005	"	0.200		92.4	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200		89.7	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200		94.7	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200		95.5	70-130			
Benzo (k) fluoranthene	0.185	0.020	"	0.200		92.4	70-130			
Chrysene	0.183	0.020	"	0.200		91.7	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200		100	70-130			
Fluoranthene	0.177	0.020	"	0.200		88.3	70-130			
Fluorene	0.178	0.020	"	0.200		89.2	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		94.8	70-130			
Naphthalene	0.183	0.002	"	0.200		91.5	70-130			
Phenanthrene	0.170	0.020	"	0.200		85.2	70-130			
Pyrene	0.175	0.020	"	0.200		87.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.4	60-130			
Surrogate: Pyrene-d10	200		"	200		98.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike (B4A3106-MS1)**

**Source: Y401706-01**

Prepared: 01/31/2024 Analyzed: 02/09/2024

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200	ND	89.2	70-130			
2-Methylnaphthalene	0.178	0.002	"	0.200	0.0009	88.6	70-130			
Acenaphthene	0.177	0.020	"	0.200	ND	88.7	70-130			
Anthracene	0.170	0.020	"	0.200	0.026	72.0	70-130			

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A3106 - EPA 3580**

<b>Matrix Spike (B4A3106-MS1)</b>		<b>Source: Y401706-01</b>			Prepared: 01/31/2024 Analyzed: 02/09/2024					
Benzo (a) anthracene	0.193	0.005	mg/kg	0.200	0.012	90.4	70-130			
Benzo (a) pyrene	0.164	0.020	"	0.200	0.020	72.3	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200	0.015	87.7	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	0.018	86.2	70-130			
Benzo (k) fluoranthene	0.171	0.020	"	0.200	0.007	82.1	70-130			
Chrysene	0.182	0.020	"	0.200	0.018	81.8	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	0.007	95.2	70-130			
Fluoranthene	0.174	0.020	"	0.200	0.020	76.9	70-130			
Fluorene	0.176	0.020	"	0.200	ND	88.2	70-130			
Indeno (1,2,3-cd) pyrene	0.169	0.020	"	0.200	0.014	77.7	70-130			
Naphthalene	0.181	0.002	"	0.200	ND	90.5	70-130			
Phenanthrene	0.173	0.020	"	0.200	0.011	81.0	70-130			
Pyrene	0.178	0.020	"	0.200	0.021	78.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

<b>Matrix Spike Dup (B4A3106-MSD1)</b>		<b>Source: Y401706-01</b>			Prepared: 01/31/2024 Analyzed: 02/09/2024					
1-Methylnaphthalene	0.183	0.002	mg/kg	0.200	ND	91.4	70-130	2.44	20	
2-Methylnaphthalene	0.186	0.002	"	0.200	0.0009	92.7	70-130	4.47	20	
Acenaphthene	0.183	0.020	"	0.200	ND	91.4	70-130	2.96	20	
Anthracene	0.176	0.020	"	0.200	0.026	75.3	70-130	3.78	20	
Benzo (a) anthracene	0.223	0.005	"	0.200	0.012	105	70-130	14.4	20	
Benzo (a) pyrene	0.193	0.020	"	0.200	0.020	86.6	70-130	16.0	20	
Benzo (b) fluoranthene	0.216	0.020	"	0.200	0.015	100	70-130	12.5	20	
Benzo (g,h,i) perylene	0.219	0.020	"	0.200	0.018	101	70-130	14.0	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A3106 - EPA 3580**

<b>Matrix Spike Dup (B4A3106-MSD1)</b>		<b>Source: Y401706-01</b>			<b>Prepared: 01/31/2024 Analyzed: 02/09/2024</b>					
Benzo (k) fluoranthene	0.193	0.020	mg/kg	0.200	0.007	92.8	70-130	11.7	20	
Chrysene	0.213	0.020	"	0.200	0.018	97.2	70-130	15.5	20	
Dibenz (a,h) anthracene	0.201	0.020	"	0.200	0.007	96.6	70-130	1.37	20	
Fluoranthene	0.243	0.020	"	0.200	0.020	112	70-130	33.4	20	QR-02
Fluorene	0.184	0.020	"	0.200	ND	91.9	70-130	4.09	20	
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	0.014	94.6	70-130	18.2	20	
Naphthalene	0.205	0.002	"	0.200	ND	103	70-130	12.6	20	
Phenanthrene	0.230	0.020	"	0.200	0.011	109	70-130	28.0	20	QR-02
Pyrene	0.233	0.020	"	0.200	0.021	106	70-130	26.9	20	QR-02
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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 Project: Noble - Foos C 27-18

**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 B4B0114 - DTPA Sorbitol Preparation**

**Blank (B4B0114-BLK1)**

Prepared: 02/01/2024 Analyzed: 02/02/2024

Boron ND 0.100 mg/L

**Duplicate (B4B0114-DUP1)**

**Source: Y401688-01**

Prepared: 02/01/2024 Analyzed: 02/02/2024

Boron 1.82 0.0998 mg/L 1.81 0.853 50

**Batch B4B0210 - Saturated Paste Metals**

**Blank (B4B0210-BLK1)**

Prepared: 02/02/2024 Analyzed: 02/05/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B4B0210-DUP1)**

**Source: Y401738-01**

Prepared: 02/02/2024 Analyzed: 02/05/2024

Calcium PPM 72.5 10.0 mg/L 61.7 16.1 50

SAR ND 0.0100 SAR 4.14 200

Magnesium PPM 20.1 10.0 mg/L 17.4 14.1 50

Sodium PPM 165 10.0 " 143 14.1 50

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 Project: Noble - Foos C 27-18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B0215 - Saturated Paste pH/EC**

**Blank (B4B0215-BLK1)**

Prepared: 02/02/2024 Analyzed: 02/03/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4B0215-DUP1)**

**Source: Y401738-01**

Prepared: 02/02/2024 Analyzed: 02/03/2024

Specific Conductance (EC)	1.26	0.00500	mmhos/cm	1.20	4.59	25
pH	8.33		pH Units	8.24	1.09	25

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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Foos C 27-18

### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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