

# Flowline Closure Checklist

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

Additional Attachments:	-	Tank Battery Closure	-	Wellhead Closure	06/28/23	Pit Closure	-	Partially Buried Vault Closure	-
Site Name & COGCC Facility Number:		Date:				Remediation Project #:			
Foos C #27-18		01/29/24 - 01/30/24				28323			
Associated Wells:		Age of Site:				Number of Photos Attached:			
05-123-29390		years				12			

Starting point: (GPS coordinates and descriptions)  
**40.287198 / -104.536453**

End point: (GPS coordinates and descriptions)  
**40.285692 / -104.529413**

USCS Soil Type: Clayey Sand      Estimated Depth to Groundwater: >20'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**None**

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**None**

### Flowlines

Flowline type	OGW							
Depth	3-5'							
Age	years							
Length	~2,580'							
Construction Material	Steel							
Were flowlines pulled?	Partially							
Visual Integrity of lines	Good							
Visual impacts if trenched	None							
PID Readings if trenched	See attached Table							
Sample taken? Location/Sample ID#								
Photo Number(s)	See photolog							

Other observations regarding on location flowlines:  
**Flowline abandoned in place**

### Summary

Was impacted soil identified?  No     Yes - less than 10 cubic yards     Yes - more than 10 cubic yards

Total number of samples field screened: **13**      Total number of samples collected: **13**

Highest PID Reading: **5.1**      Total number of samples submitted to lab for analysis: **5**

If more than 10 cubic yards of impacted soil were observed:

Vertical extent:      Estimated spill volume:

Lateral extent:      Volume of soil removed:

Is additional investigation required?

Was groundwater encountered during the investigation?  No     Yes - not impacted or in contact with impacted soils     Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater:      Was remedial groundwater removal conducted? Yes  No

Date Groundwater was encountered:      Commencement date of removal:

Sheen on groundwater?  Yes  No      Volume of groundwater removed prior to sampling:

Free product observed?  Yes  No      Volume of groundwater removed post sampling:

Total number of samples collected:      Total Volume of groundwater removed:

Total number of samples submitted to lab for analysis:

# Wellhead Closure Checklist

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

Additional attachments (optional): <u>    </u>		Pit Closure <u>    </u>		Tank Battery Closure <u>    </u>		Flowline Closure 01/30/24	Partially Buried Vault Closure <u>    </u>
Site Name & COGCC Facility Number: <b>Foos C #27-18</b>		Date: 6/28/23				Remediation Project #: 28232	
Associated Wells: 05-123-29390		Age of Site: years				Number of Photos Attached: 3	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.287208 / -104.536534	
Estimated Facility Size (acres): <u>    </u>							
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)  <b>Good condition</b>							
USCS Soil Type: <b>Clayey Sand</b>				Estimated Depth to Groundwater: >20'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <b>None observed</b>							
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <b>None observed</b>							
Wellhead(s)							
Well API	05-123-29390						
Age	years						
Condition of surface around wellhead	Good - No odor/no staining						
PID Readings	WH-N: 12.8	WH-E: 16.9	WH-S: 13.2	WH-W: 9.4			
Condition of subsurface (staining present)	Good - No odor/no staining						
PID Readings	10.8	13.4	15.5	11.1	17.6	10.2	
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01	Background-01	
Photo Number(s)	See photo log						
Other observations regarding wellheads:							
Summary							
Was impacted soil identified? <input checked="" type="radio"/> No      Yes - less than 10 cubic yards      Yes - more than 10 cubic yards							
Total number of samples field screened: 9				Total number of samples collected: 9			
Highest PID Reading: 17.6				Total number of samples submitted to lab for analysis: 1			
If more than 10 cubic yards of impacted soil were observed:							
Vertical extent:				Estimated spill volume:			
<b>N/A</b>							
Lateral extent:				Volume of soil removed:			
Is additional investigation required?							
Was groundwater encountered during the investigation? <input checked="" type="radio"/> No      Yes - not impacted or in contact with impacted soils      Yes - groundwater impacted and/or in contact with impacted soils							
Measured depth to groundwater:				Was remedial groundwater removal conducted?      Yes      No			
Date Groundwater was encountered:				Commencement date of removal:			
Sheen on groundwater?      Yes      No				Volume of groundwater removed prior to sampling:			
Free product observed?      Yes      No				Volume of groundwater removed post sampling:			
Total number of samples collected:				Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:							



## **FIGURES**

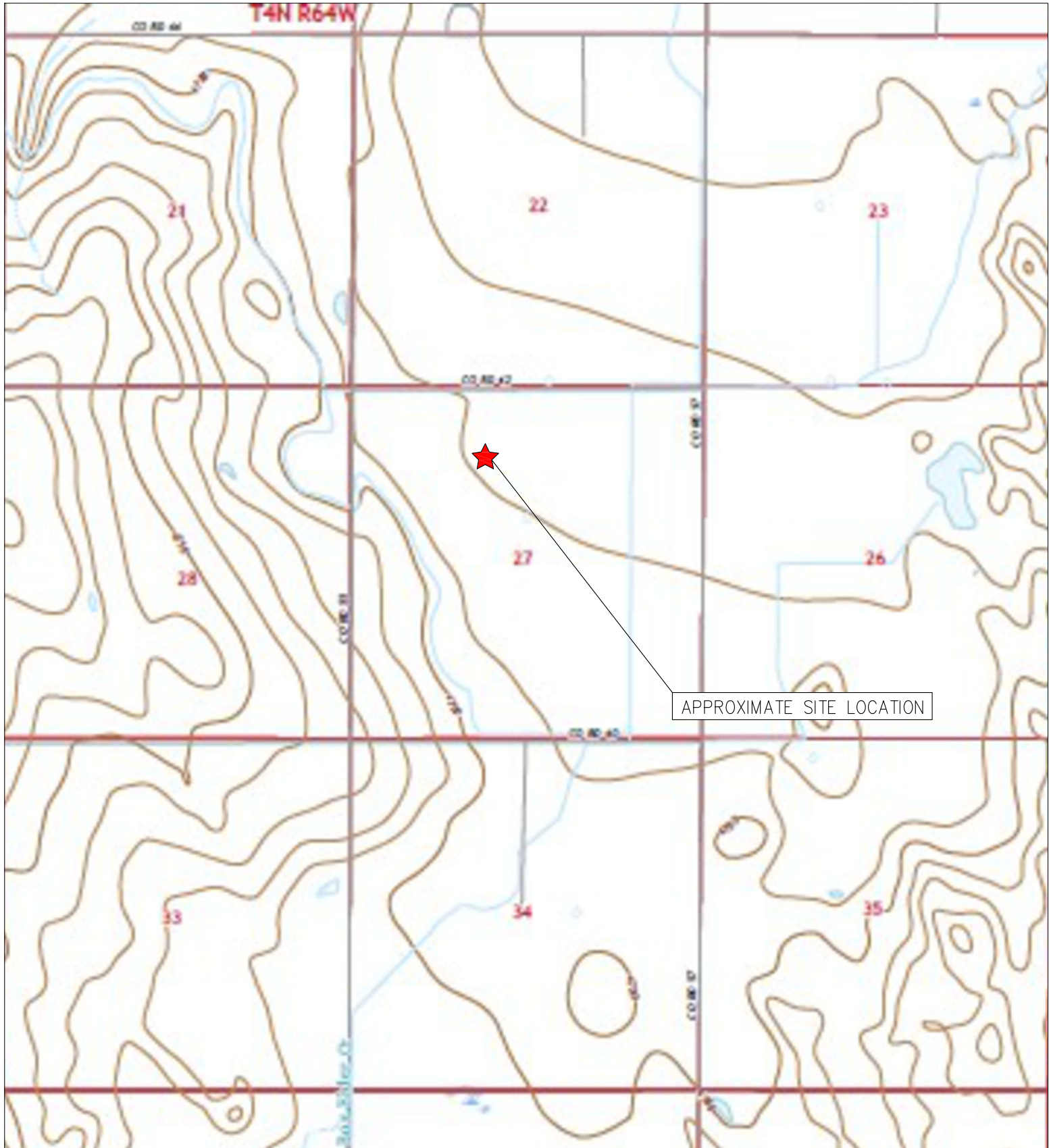
**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**

**Figure 5: Metals in Soil Map**



APPROXIMATE SITE LOCATION

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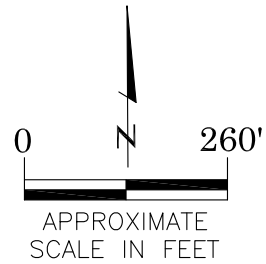
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

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)



**AERIAL 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

FIGURE NO.

2

DRAWN BY:

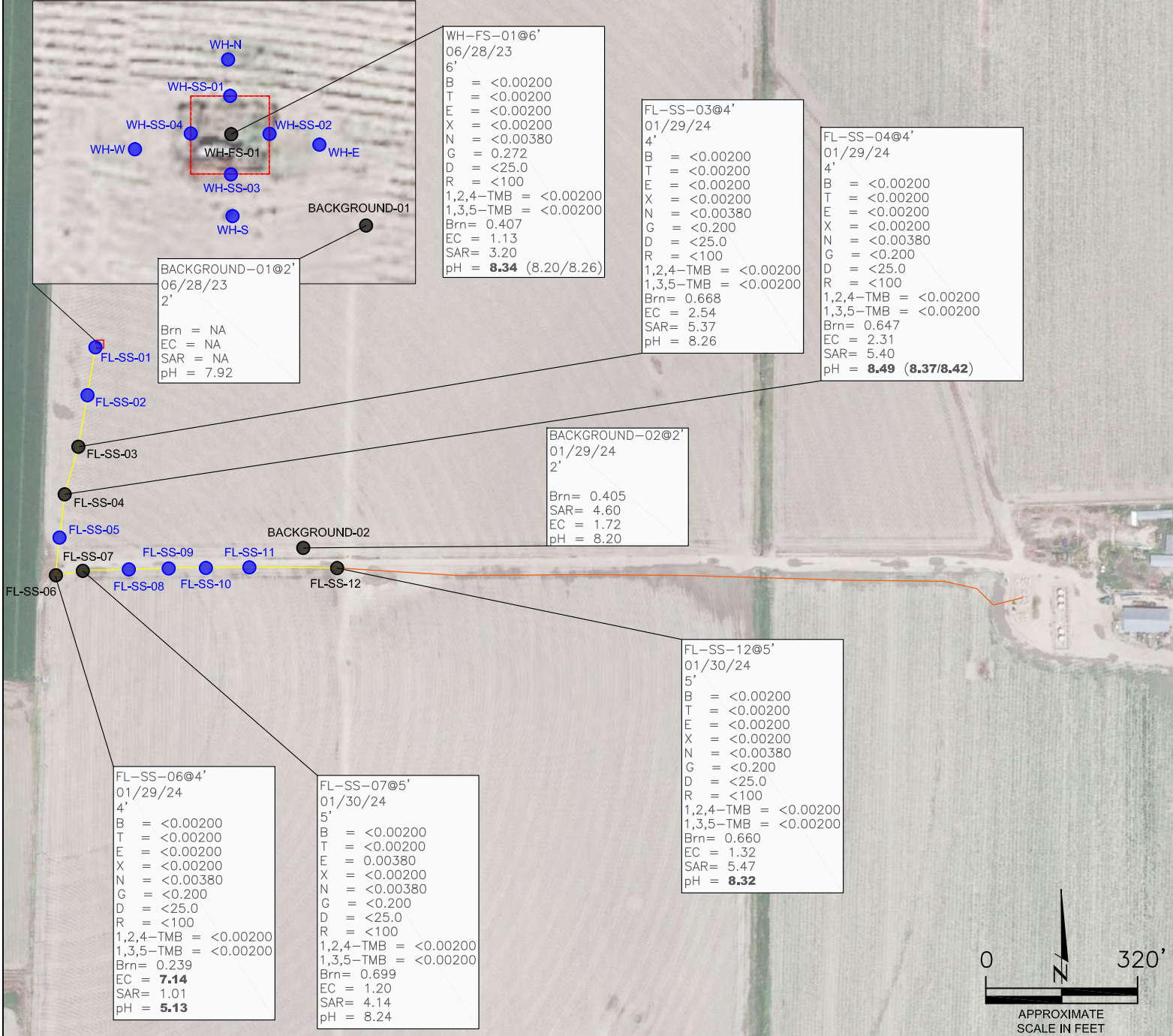
JF



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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)

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** (8.37/8.42)

BACKGROUND-01@2'  
06/28/23  
2'  
Brn = NA  
EC = NA  
SAR = NA  
pH = 7.92

BACKGROUND-02@2'  
01/29/24  
2'  
Brn= 0.405  
SAR= 4.60  
EC = 1.72  
pH = 8.20

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

- 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

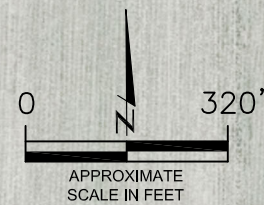
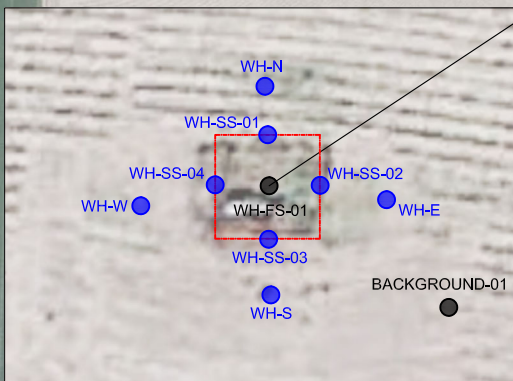


FIGURE NO.  
3

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



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

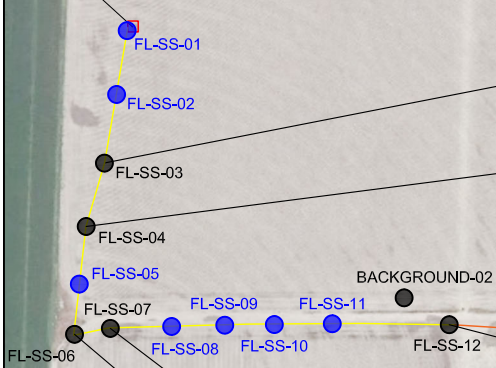
1-Methylnaphthalene = <0.00201  
2-Methylnaphthalene = <0.00201  
Acenaphthene = <0.00067  
Anthracene = <0.00067  
Benzo(a)anthracene = <0.00067  
Benzo(a)pyrene = <0.00067  
Benzo(b)fluoranthene = <0.00067  
Benzo(k)fluoranthene = <0.00067  
Chrysene = <0.00067  
Dibenzo(a,h)anthracene = <0.00067  
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-12@5'  
01/30/24  
5'

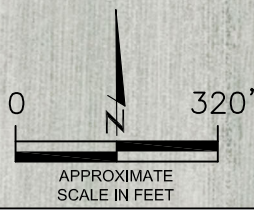
1-Methylnaphthalene = <0.002  
2-Methylnaphthalene = <0.002  
Acenaphthene = <0.020  
Anthracene = <0.020  
Benzo(a)anthracene = **0.012\***  
Benzo(a)pyrene = <0.020  
Benzo(b)fluoranthene = <0.020  
Benzo(k)fluoranthene = 0.021  
Chrysene = <0.020  
Dibenzo(a,h)anthracene = <0.020  
Fluoranthene =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

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



LEGEND

- 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.

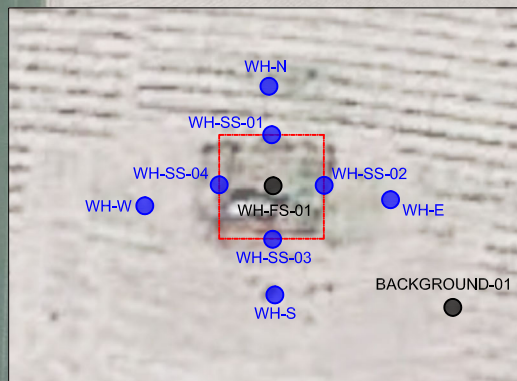
ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

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

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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



BACKGROUND-02@2'  
01/29/24  
4'

Arsenic = 4.04  
Barium = 84.1  
Cadmium = 0.0992  
Chromium (VI) = <0.244\*\*  
Copper = <9.10  
Lead = 8.28  
Nickel = 7.31  
Selenium = 0.0973  
Silver = NA  
Zinc = NA

FL-SS-12@3'  
10/20/23  
3'

Arsenic = 3.99  
Barium = 92.3  
Cadmium = 0.160  
Chromium (VI) = <0.249\*\*  
Copper = 10.2  
Lead = 8.32  
Nickel = 8.98  
Selenium = 0.179  
Silver = <0.0899  
Zinc = 42.0

FL-SS-06@4'  
01/30/24  
4'

Arsenic = **5.16**  
Barium = **115\***  
Cadmium = 0.200  
Chromium (VI) = <0.492\*\*  
Copper = 13.8  
Lead = 12.4  
Nickel = 11.5  
Selenium = 0.196  
Silver = <0.0883  
Zinc = 54.6

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

Arsenic = 4.54  
Barium = **149\***  
Cadmium = **1.00\***  
Chromium (VI) = <0.244\*\*  
Copper = 13.6  
Lead = 10.3  
Nickel = 11.9  
Selenium = 0.176  
Silver = <0.914  
Zinc = 57.9

- LEGEND**
- 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
- Arsenic = (mg/kg)
  - Barium = (mg/kg)
  - Cadmium = (mg/kg)
  - Chromium (VI) = (mg/kg)
  - Copper = (mg/kg)
  - Lead = (mg/kg)
  - Nickel = (mg/kg)
  - Selenium = (mg/kg)
  - Silver = (mg/kg)
  - Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NA - NOT ANALYZED

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

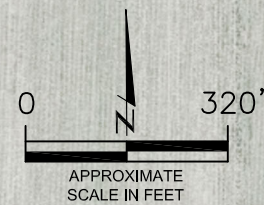
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

\*VALUES EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

\*\*ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

ELEVATED METALS ARE NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVELS ARE 1.25\*BACKGROUND WHERE APPLICABLE.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION



**METALS IN SOIL 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.  
5  
DRAWN BY:  
JF

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## **TABLES**

**Table 1A: Photoionization Detector Reading Summary – Wellhead**

**Table 1B: Photoionization Detector Reading Summary – Flowline**

**Table 2A: Soil Analytical Results Summary – Wellhead**

**Table 2B: Soil Analytical Results Summary – Flowline**

**TABLE 1A**  
**PHOTOIONIZATION DETECTOR READING SUMMARY - WELLHEAD**  
**FOOS C #27-18**  
**CLOSURE ASSESSMENT**  
**40.287208 / -104.536534**  
**NW¼ NE¼ SEC.27 T4N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-29390**  
**REMEDIAION # 28232**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.287219 / -104.536544)	06/28/23	5	10.8	N
WH-SS-02 @ 5' (40.287206 / -104.536530)	06/28/23	5	13.4	N
WH-SS-03 @ 5' (40.287196 / -104.536544)	06/28/23	5	15.5	N
WH-SS-04 @ 5' (40.287205 / -104.536561)	06/28/23	5	11.1	N
WH-FS-01 @ 6' (40.287208 / -104.536546)	06/28/23	6	17.6	Y
Background-01 @ 2' (40.287175 / -104.536504)	06/28/23	2	10.2	Y
WH-N @ 0.5' (40.287229 / -104.536544)	06/28/23	0.5	12.8	N
WH-E @ 0.5' (40.287207 / -104.536520)	06/28/23	0.5	16.9	N
WH-S @ 0.5' (40.287191 / -104.536545)	06/28/23	0.5	13.2	N
WH-W @ 0.5' (40.287210 / -104.536577)	06/28/23	0.5	9.4	N
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



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**TABLE 1B**  
**PHOTOIONIZATION DETECTOR READING SUMMARY - FLOWLINE**  
**FOOS C #27-18**  
**CLOSURE ASSESSMENT**  
**40.287208 / -104.536534**  
**NW¼ NE¼ SEC.27 T4N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-29390**  
**REMEDIAION # 28232**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
FL-SS-01 @ 3' (40.287190 / -104.536555)	01/29/24	3	1.3	N
FL-SS-02 @ 4' (40.286931 / -104.536628)	01/29/24	4	2.1	N
FL-SS-03 @ 4' (40.286687 / -104.536693)	01/29/24	4	2.1	Y
FL-SS-04 @ 4' (40.286436 / -104.536812)	01/29/24	4	2.5	Y
FL-SS-05 @ 3' (40.286085 / -104.536821)	01/29/24	3	2.4	N
FL-SS-06 @ 4' (40.285800 / -104.536846)	01/29/24	4	5.1	Y
FL-SS-07 @ 5' (40.285866 / -104.536629)	01/30/24	5	0.7	Y
FL-SS-08 @ 5' (40.285877 / -104.536271)	01/30/24	5	1.5	N
FL-SS-09 @ 5' (40.285893 / -104.535985)	01/30/24	5	1.1	N
FL-SS-10 @ 5' (40.285884 / -104.535685)	01/30/24	5	1.0	N
FL-SS-11 @ 5' (40.285882 / -104.535373)	01/30/24	5	1.0	N
FL-SS-12 @ 5' (40.285882 / -104.534681)	01/30/24	5	0.6	Y
Background-02 @ 2' (40.286014 / -104.534932)	01/29/24	2	1.2	H

(Y/N) = Yes or No

ppm-v = parts per million by volume

PID = Photoionization Detector



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**ENVIRONMENTAL**  
**CONSULTING, LLC**

TABLE 2A  
SOIL ANALYTICAL RESULTS SUMMARY - WELLHEAD  
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

Sample Location (Latitude / Longitude)		WH-FS-01 @ 6'			Background-01 @ 2'	
		(40.287208/-104.536546)			(40.287175 / -104.536504)	
Sample Date		6/28/2023			6/28/2023	
Sample Depth		6'			2'	
PID Reading (ppm-v)		17.6			10.2	
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level		
<b>VOCs</b>						
Benzene	mg/kg	1.2	0.0026	--	<0.00200	NA
Toluene	mg/kg	490	0.69	--	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	--	<0.00200	NA
Naphthalene	mg/kg	2	0.0038	--	<0.00380	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	NA
<b>TOTAL PETROLEUM HYDROCARBONS</b>						
TPH-GRO	mg/kg	500	--	--	0.272	NA
TPH-DRO	mg/kg	500	--	--	<25.0	NA
TPH-RRO	mg/kg	500	--	--	<100	NA
<b>POLYCYCLIC AROMATIC HYDROCARBONS</b>						
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	NA
Acenaphthene	mg/kg	360	0.55	--	<0.020	NA
Anthracene	mg/kg	1800	5.8	--	<0.020	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.002	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.002	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.002	NA
Chrysene	mg/kg	110	9	--	<0.002	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.002	NA
Fluoranthene	mg/kg	240	8.9	--	<0.002	NA
Fluorene	mg/kg	240	0.54	--	<0.002	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.002	NA
Pyrene	mg/kg	180	1.3	--	<0.020	NA
<b>SOIL SUITABILITY (Inorganics)</b>						
Boron	mg/L	2	--	--	0.407	NA
pH	standard unit	6-8.3	--	--	<b>8.34</b> (8.20 / 8.26)	7.92
Sodium Adsorption Ratio (SAR)	--	<6	--	--	3.20	NA
Specific Conductance (EC)	mmhos/cm	<4	--	--	1.13	NA
ECMC = Energy & Carbon Management Commission      NA - Not Analyzed      VOCs - Volatile Organic Compounds mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter      RSSLs = Residential Soil Screening Levels PID = Photoionization Detector      GSSLs = Protection of Groundwater Soil Screening Levels ppm-v = parts per million by volume      TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics mg/L = milligrams per liter      TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics SAR = Sodium Adsorption Ratio      TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit Values presented in <b>BOLD</b> exceed ECMC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only. Laboratory reruns were completed as applicable on samples with Soil Suitability values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses. **Achievable practical quantitative limits for Hexavalent Chromium (Cr VI) in soils is in the range of 0.1 to 1 mg/kg						



TABLE 2B  
SOIL ANALYTICAL RESULTS SUMMARY - FLOWLINE  
FOOS C #27-18  
CLOSURE ASSESSMENT  
40.287208 / -104.536534  
NW 1/4 NE 1/4 SEC 27 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-29390  
REMEDIATION # 28232

Sample Location (Latitude / Longitude)		FL-SS-03 @ 4' (40.286687 / -104.536693)	FL-SS-04 @ 4' (40.286436 / -104.536812)	FL-SS-06 @ 4' (40.285800 / -104.536846)	FL-SS-07 @ 5' (40.285866 / -104.536629)	FL-SS-12 @ 5' (40.285882 / -104.534681)	Background-02 @ 2' (40.286014 / -104.534932)
Sample Date		1/29/2024	1/29/2024	1/29/2024	1/30/2024	1/30/2024	1/29/2024
Sample Depth		4	4	4	5	5	2
PID Reading (ppm-v)		2.1	2.5	5.1	0.7	0.6	1.2
Regulatory Limits							
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level			
<b>VOCs</b>							
Benzene	mg/kg	1.2	0.0026	--	<0.00200	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200	0.00380
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	--	<0.00380	<0.00380	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	<0.00200	<0.00200
<b>TOTAL PETROLEUM HYDROCARBONS</b>							
TPH-GRO	mg/kg	500	--	--	<0.200	<0.200	<0.200
TPH-DRO	mg/kg	500	--	--	<25.0	<25.0	<25.0
TPH-RRO	mg/kg	500	--	--	<100	<100	<100
<b>POLYCYCLIC AROMATIC HYDROCARBONS</b>							
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	<0.002	0.004
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	<0.002	0.004
Acenaphthene	mg/kg	360	0.55	--	<0.020	<0.020	0.090
Anthracene	mg/kg	1800	5.8	--	<0.020	<0.020	0.412
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	<0.005	0.029*
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.020	<0.020	0.269
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.020	<0.020	0.304*
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.020	<0.020	0.138
Chrysene	mg/kg	110	9	--	<0.020	<0.020	0.456
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.020	<0.020	0.056
Fluoranthene	mg/kg	240	8.9	--	<0.020	<0.020	1.25
Fluorene	mg/kg	240	0.54	--	<0.020	<0.020	0.112
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.020	<0.020	0.159
Pyrene	mg/kg	180	1.3	--	<0.020	<0.020	0.991
<b>SOIL SUITABILITY (Inorganics)</b>							
Boron	mg/L	2	--	--	0.668	0.647	0.239
pH	standard unit	6-8.3	--	--	8.26	<b>8.49 (8.37/8.42)</b>	<b>5.13</b>
Sodium Adsorption Ratio (SAR)	--	<6	--	--	5.37	5.40	1.01
Specific Conductance (EC)	mmhos/cm	<4	--	--	2.54	2.31	7.14
<b>METALS</b>							
Arsenic	mg/kg	0.68	0.29	5.05	NA	NA	5.16
Barium	mg/kg	15000	82	105.13	NA	NA	115*
Cadmium	mg/kg	71	0.38	--	NA	NA	0.200
Copper	mg/kg	3100	46	--	NA	NA	13.6
Lead	mg/kg	400	14	--	NA	NA	12.4
Nickel	mg/kg	1500	26	--	NA	NA	11.5
Selenium	mg/kg	390	0.26	--	NA	NA	0.196
Silver	mg/kg	390	0.8	--	NA	NA	<0.0883
Zinc	mg/kg	23000	370	--	NA	NA	54.6
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	NA	<0.492**

ECMC = Energy & Carbon Management Commission  
mg/kg = milligrams per kilogram  
mmhos/cm = millimhos per centimeter  
PID = Photoionization Detector  
ppm-v = parts per million by volume  
mg/L = milligrams per liter  
SAR = Sodium Adsorption Ratio

Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit  
Values presented in **BOLD** exceed ECMC Table 915-1 Regulatory Limits. Values presented with asterisk (\*) exceed ECMC Table 915-1 GSSLs, only.  
Laboratory reruns were completed as applicable on samples with Soil Suitability values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses.  
\*\*Achievable practical quantitative limits for Hexavalent Chromium (Cr VI) in soils is in the range of 0.1 to 1 mg/kg  
Elevated metals are naturally occurring in Colorado. Local clean-up levels are 1.25x Background where applicable.





## **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

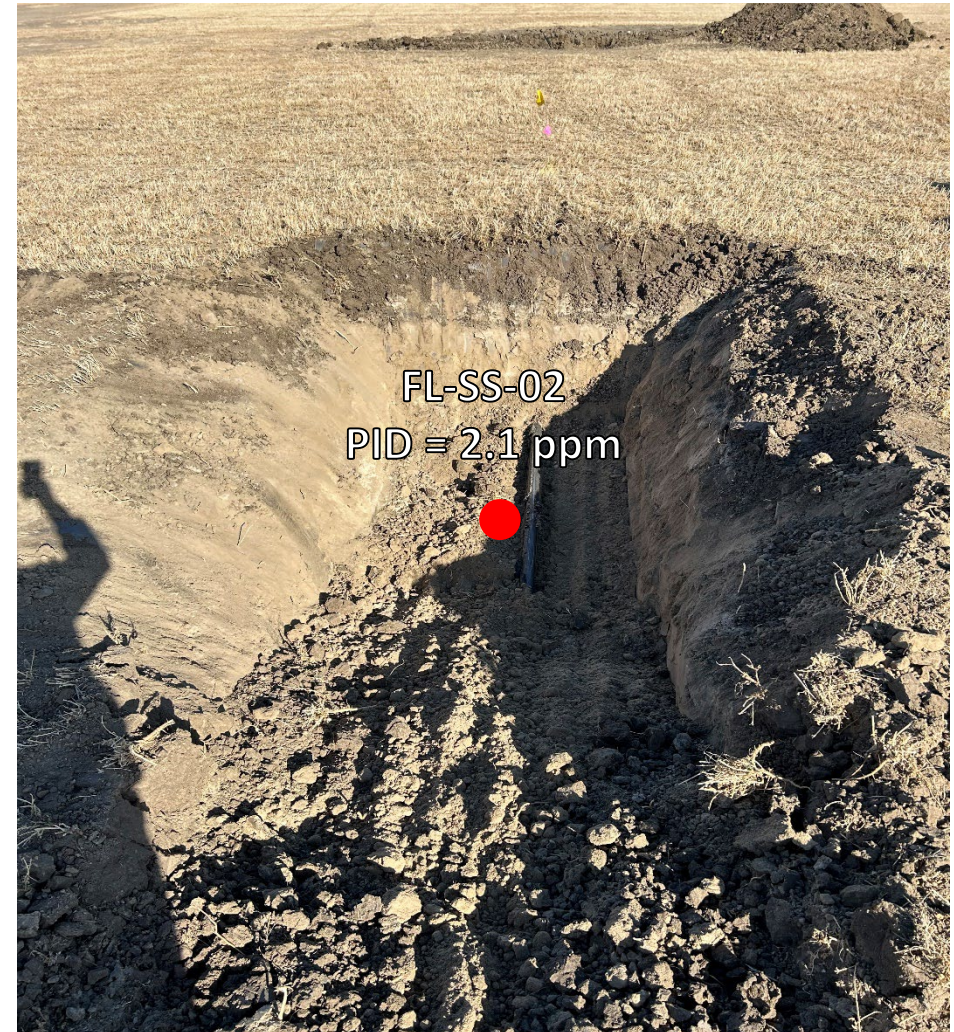
Site in good condition – no petroleum hydrocarbon staining or odor  
Observed on surface around wellhead

# 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

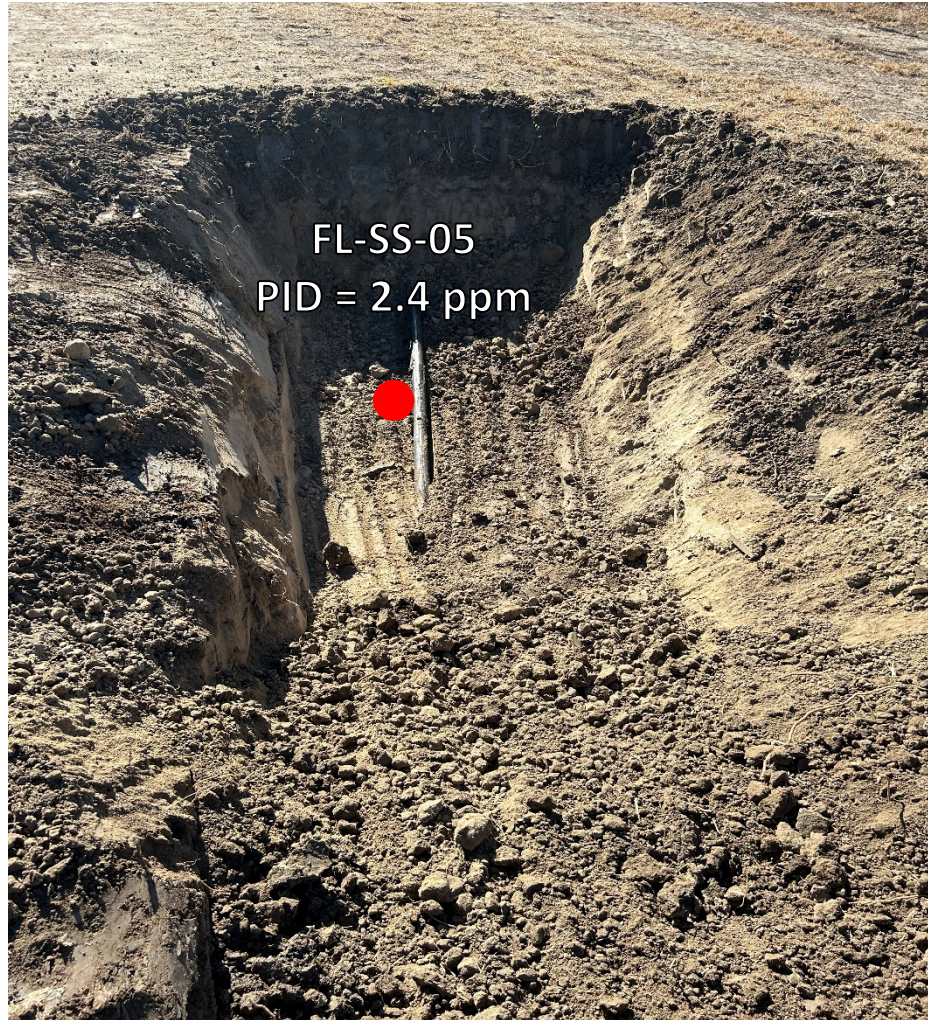
No petroleum hydrocarbon staining or odor observed



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 Report**



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



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
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
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**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			"	"	"	
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**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
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**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	3.41		0.499	meq/L	10	[CALC]	06/30/2023	07/03/2023	
Magnesium	1.45		0.823	"	"	"	"	"	
Sodium	4.99		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
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**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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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
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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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Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - 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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 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
<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			

Origins Laboratory, Inc.



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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
<b>Batch B3F3001 - EPA 3550B</b>										
<b>LCS (B3F3001-BS1)</b>										
					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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 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			
Surrogate: o-Terphenyl	42		"	49.8		83.8	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
<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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 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)**

**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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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

**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)**

<b>Matrix Spike (B3F3042-MS1)</b>	<b>Source: Y306805-01</b>			<b>Prepared: 06/30/2023 Analyzed: 07/05/2023</b>						
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			

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 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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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
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**Batch L691186 - 3550B**

MS (L 94678-MS-L691186)	Source: 94678			Prepared: 07/06/2023 Analyzed: 07/06/2023						
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			

LCS (LCS-L691186)				Prepared: 07/06/2023 Analyzed: 07/06/2023						
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.



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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

**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



4307203

www.originslaboratory.com

page 1 of 1

Client: Eagle Env. Consulting  
 Address: 8000 W 44th Ave  
 Telephone Number: 303-433-0479  
 Email Address: info@eagle-env.co-om

Project Manager: Martin Eckert III  
 Project Name: Foos C #27-18  
 Project Number: [blank]  
 Samples Collected By: KM

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions			
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	TH - Total SD		Time	Date	
Background-0102	6/28/13	1348	1	X				X								returned paste prep 1
Relinquished By: [Signature]	Date: 7/11/13	Time: 1600														Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished By:	Date:	Time:														

Temp Received: [blank] Date Results Needed: 7/11/13  
 Bill to Cole [Signature] 4/1/13

Origins Laboratory, Inc.  
*J. Bynon*

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 21, 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



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

Chain of Custody Modification Request

On 2/8/2024, Grace Congdon from Eagle Environmental contacted Jennifer Pellegrini via email regarding Y401724 requesting that pH be rerun for sample FL-SS-04@4' and 915 metals be added to samples FL-SS-06@4' and Background-02@2'.

Requested modifications to the chain of custody were made by Jennifer Pellegrini on 2/8/2024.

No errors were found in the original pH data, all 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

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	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	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	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	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	01/31/2024	01/31/2024	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

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

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			B4A31 21	01/31/2024	01/31/2024	
Surrogate: Toluene-d8	99.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.5 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

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

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A3029	01/30/2024	02/06/2024	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401724-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4A3029	01/30/2024	02/06/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
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	01/31/2024	02/01/2024	
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**SAR by 20B Saturated Paste**

SAR	5.37		0.0100	SAR	1	B4A3113	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	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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	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	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	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	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	01/31/2024	01/31/2024	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

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

**Origins Laboratory, Inc.**  
 Y401724-02 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B4A31 21	01/31/2024	01/31/2024	
Surrogate: Toluene-d8	99.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

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

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A3029	01/30/2024	02/06/2024	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	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-04@4'**

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

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

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4A3029	01/30/2024	02/06/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.3 %		60-130			"	"	"	
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	01/31/2024	02/01/2024	
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**SAR by 20B Saturated Paste**

SAR	5.40		0.0100	SAR	1	B4A3113	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	01/31/2024	02/01/2024	
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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-04@4'**

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

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401724-02RE1 (Soil)**

**pH in Soil by 9045D**

pH	8.37			pH Units	1	B4B0916	01/31/2024	02/10/2024	
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Andrew Newberry  
Project Number: [none]  
Project: Noble - Foos C 27-18

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

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

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401724-02RE2 (Soil)**

**pH in Soil by 9045D**

pH	8.42			pH Units	1	B4B0916	01/31/2024	02/10/2024	
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	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	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	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A3023	01/30/2024	02/01/2024	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	"	"	"	"	02/01/2024	U
Xylenes, total	ND		0.00200	"	"	"	"	02/01/2024	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	02/01/2024	U

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

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B4A30 23	01/30/2024	02/01/2024	
Surrogate: Toluene-d8	98.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

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

**PAH by EPA 8270E**

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

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

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	0.159		0.020	mg/kg	1	B4A3029	01/30/2024	02/06/2024	
Pyrene	0.991		0.020	"	"	"	"	"	

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			"	"	"	

**pH in Soil by 9045D**

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

SAR	1.01		0.0100	SAR	1	B4A3113	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	01/31/2024	02/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.16		0.0883	mg/kg	10	B4B0825	02/08/2024	02/12/2024	
Barium	115		8.83	"	"	"	"	"	
Cadmium	0.200		0.0883	"	"	"	"	"	

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

**Table 915 metals by EPA 6020B**

Copper	13.8		8.83	mg/kg	10	B4B0825	02/08/2024	02/12/2024	
Lead	12.4		0.883	"	"	"	"	"	
Nickel	11.5		0.883	"	"	"	"	"	
Selenium	0.196		0.0883	"	"	"	"	"	
Silver	ND		0.0883	"	"	"	"	"	
Zinc	54.6		8.83	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	2	L733248	01/29/2024	02/16/2024	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Foos C 27-18

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

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	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	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]	01/31/2024	02/01/2024	
Magnesium	2.46		0.823	"	"	"	"	"	
Sodium	9.10		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

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

SAR	4.60		0.0100	SAR	1	B4A3113	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	01/31/2024	02/01/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.04		0.0910	mg/kg	10	B4B0825	02/08/2024	02/12/2024	
Barium	84.1		9.10	"	"	"	"	"	
Cadmium	0.0992		0.0910	"	"	"	"	"	
Copper	ND		9.10	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

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

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

**Table 915 metals by EPA 6020B**

Lead	8.28		0.910	mg/kg	10	B4B0825	02/08/2024	02/12/2024	
Nickel	7.31		0.910	"	"	"	"	"	
Selenium	0.0973		0.0910	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L733248	01/29/2024	02/16/2024	
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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 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			

Origins Laboratory, Inc.



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 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 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			

Origins Laboratory, Inc.



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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**

<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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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 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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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 B4A3023 - EPA 5030 (soil)**

**Blank (B4A3023-BLK1)**

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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 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 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  
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 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			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 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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**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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**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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**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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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B0825 - EPA 3050B**

**Blank (B4B0825-BLK1)**

Prepared: 02/08/2024 Analyzed: 02/12/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

**LCS (B4B0825-BS1)**

Prepared: 02/08/2024 Analyzed: 02/12/2024

Arsenic	4.45	0.0100	mg/kg	5.00		89.0	80-120			
Barium	482	1.00	"	500		96.4	80-120			
Cadmium	4.92	0.0100	"	5.00		98.3	80-120			
Copper	49.7	1.00	"	50.0		99.3	80-120			
Lead	5.23	0.100	"	5.00		105	80-120			
Nickel	5.04	0.100	"	5.00		101	80-120			
Selenium	4.33	0.0100	"	5.00		86.6	80-120			
Silver	5.53	0.0100	"	5.00		111	80-120			
Zinc	42.3	1.00	"	50.0		84.7	80-120			

**Matrix Spike (B4B0825-MS1)**

Source: Y401724-04

Prepared: 02/08/2024 Analyzed: 02/12/2024

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B0825 - EPA 3050B**

<b>Matrix Spike (B4B0825-MS1)</b>		<b>Source: Y401724-04</b>			Prepared: 02/08/2024 Analyzed: 02/12/2024					
Arsenic	8.42	0.0913	mg/kg	4.57	4.04	95.9	75-125			
Barium	537	9.13	"	457	84.1	99.3	75-125			
Cadmium	5.09	0.0913	"	4.57	0.0992	109	75-125			
Copper	54.4	9.13	"	45.7	6.62	105	75-125			
Lead	13.1	0.913	"	4.57	8.28	105	75-125			
Nickel	11.7	0.913	"	4.57	7.31	95.3	75-125			
Selenium	4.46	0.0913	"	4.57	0.0973	95.5	75-125			
Silver	5.53	0.0913	"	4.57	0.0218	121	75-125			
Zinc	75.1	9.13	"	45.7	28.6	102	75-125			

<b>Matrix Spike Dup (B4B0825-MSD1)</b>		<b>Source: Y401724-04</b>			Prepared: 02/08/2024 Analyzed: 02/12/2024					
Arsenic	8.66	0.0925	mg/kg	4.62	4.04	100	75-125	2.84	20	
Barium	585	9.25	"	462	84.1	108	75-125	8.55	20	
Cadmium	5.36	0.0925	"	4.62	0.0992	114	75-125	5.15	20	
Copper	54.7	9.25	"	46.2	6.62	104	75-125	0.682	20	
Lead	15.9	0.925	"	4.62	8.28	165	75-125	19.5	20	QM-07
Nickel	12.6	0.925	"	4.62	7.31	115	75-125	8.03	20	
Selenium	4.87	0.0925	"	4.62	0.0973	103	75-125	8.70	20	
Silver	5.55	0.0925	"	4.62	0.0218	120	75-125	0.305	20	
Zinc	74.3	9.25	"	46.2	28.6	98.9	75-125	1.09	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 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			

**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			

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 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

Benzo (a) anthracene	0.187	0.005	mg/kg	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			
Benzo (a) anthracene	0.178	0.005	"	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			

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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**

<b>Matrix Spike (B4A3029-MS1)</b>		<b>Source: Y401658-01</b>			Prepared: 01/30/2024 Analyzed: 02/06/2024					
Benzo (k) fluoranthene	0.172	0.020	mg/kg	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	
Benzo (k) fluoranthene	0.175	0.020	"	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	

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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

Matrix Spike Dup (B4A3029-MSD1)	Source: Y401658-01			Prepared: 01/30/2024 Analyzed: 02/06/2024						
Fluorene	0.176	0.020	mg/kg	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			

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

**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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 Wheat Ridge CO 80033

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
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**Batch B4A3117 - Saturated Paste pH/EC**

**Blank (B4A3117-BLK1)**

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

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4A3117-DUP1)**

**Source: Y401688-05**

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

**Batch B4B0916 - Saturated Paste pH/EC**

**Duplicate (B4B0916-DUP1)**

**Source: Y402170-01**

Prepared: 02/09/2024 Analyzed: 02/10/2024

pH 8.43 pH Units 8.46 0.355 25

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L733248 -</b>										
<b>DUP (L 95907-DUP)</b>		<b>Source: 95907</b>			Prepared: Analyzed: 02/16/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 95907-MS)</b>		<b>Source: 95907</b>			Prepared: Analyzed: 02/16/2024					
Chromium, Hexavalent	32.3	2.5	mg/Kg	39.9	< 0.244	81	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 02/16/2024								
Chromium, Hexavalent	6.17	0.5	mg/Kg	8		77	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 02/16/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

### 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 on a wet weight basis.

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

Origins Laboratory, Inc.



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February 28, 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



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

Chain of Custody Modification Request

On 2/15/2024, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y401738 requesting that Table 915 Metals be added to both samples. Requested modifications to the chain of custody were made by Jordan Bynon on 2/15/2024.

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

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: 1/8 °C \_\_\_\_\_ °C \_\_\_\_\_ °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"/>	<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input checked="" type="checkbox"/>	<input 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"/>	<input 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-07@5'**

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

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	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	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	01/31/2024	02/02/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

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

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

FL-SS-07@5'

1/30/2024 10:25:00AM

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

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B4A31 21	01/31/2024	01/31/2024	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

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

**PAH by EPA 8270E**

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

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

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4A3106	01/31/2024	02/09/2024	U
Pyrene	<b>0.074</b>		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

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

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

Specific Conductance (EC)	<b>1.20</b>		0.00500	mmhos/cm	1	B4B0215	02/02/2024	02/03/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	<b>4.54</b>		0.0914	mg/kg	10	B4B2123	02/21/2024	02/22/2024	
Barium	<b>149</b>		9.14	"	"	"	"	"	

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

**Table 915 metals by EPA 6020B**

Cadmium	1.00		0.0914	mg/kg	10	B4B2123	02/21/2024	02/22/2024	
Copper	13.6		9.14	"	"	"	"	"	
Lead	10.3		0.914	"	"	"	"	"	
Nickel	11.9		0.914	"	"	"	"	"	
Selenium	0.176		0.0914	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	57.9		9.14	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L734874	01/30/2024	02/26/2024	
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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-12@5'**

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

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	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	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	01/31/2024	02/02/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	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	01/31/2024	01/31/2024	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

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

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

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

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

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B4A31 21	01/31/2024	01/31/2024	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

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

**PAH by EPA 8270E**

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

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

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

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

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

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4A3106	01/31/2024	02/09/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	<b>0.028</b>		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

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

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

Specific Conductance (EC)	<b>1.32</b>		0.00500	mmhos/cm	1	B4B0215	02/02/2024	02/03/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	<b>3.99</b>		0.0899	mg/kg	10	B4B2123	02/21/2024	02/22/2024	
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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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401738-02 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	92.3		8.99	mg/kg	10	B4B2123	02/21/2024	02/22/2024	
Cadmium	0.160		0.0899	"	"	"	"	"	
Copper	10.2		8.99	"	"	"	"	"	
Lead	8.32		0.899	"	"	"	"	"	
Nickel	8.98		0.899	"	"	"	"	"	
Selenium	0.179		0.0899	"	"	"	"	"	
Silver	ND		0.0899	"	"	"	"	"	
Zinc	42.0		8.99	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L734874	01/30/2024	02/26/2024	
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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 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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 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**

**LCS (B4A3101-BS1)**

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

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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 B4A3101 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4A3101-MSD1)</b>		<b>Source: Y401738-01</b>			Prepared: 01/31/2024 Analyzed: 02/02/2024					
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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**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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 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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 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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**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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 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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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B2123 - EPA 3050B**

**Blank (B4B2123-BLK1)**

Prepared: 02/21/2024 Analyzed: 02/22/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Zinc	ND	1.00	"							

**LCS (B4B2123-BS1)**

Prepared: 02/21/2024 Analyzed: 02/22/2024

Arsenic	4.99	0.0100	mg/kg	5.00		99.9	80-120			
Barium	531	1.00	"	500		106	80-120			
Cadmium	5.13	0.0100	"	5.00		103	80-120			
Lead	4.91	0.100	"	5.00		98.2	80-120			
Nickel	5.09	0.100	"	5.00		102	80-120			
Selenium	4.74	0.0100	"	5.00		94.8	80-120			
Zinc	50.5	1.00	"	50.0		101	80-120			

**Matrix Spike (B4B2123-MS1)**

Source: Y402260-01

Prepared: 02/21/2024 Analyzed: 02/22/2024

Arsenic	8.18	0.0940	mg/kg	4.70	2.67	117	75-125			
Barium	616	9.40	"	470	64.2	117	75-125			
Cadmium	5.28	0.0940	"	4.70	0.0773	111	75-125			
Lead	9.85	0.940	"	4.70	4.94	105	75-125			

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B2123 - EPA 3050B**

**Matrix Spike (B4B2123-MS1)**

**Source: Y402260-01**

Prepared: 02/21/2024 Analyzed: 02/22/2024

Nickel	12.3	0.940	mg/kg	4.70	7.02	113	75-125			
Selenium	4.79	0.0940	"	4.70	0.0887	100	75-125			
Zinc	79.4	9.40	"	47.0	27.8	110	75-125			

**Matrix Spike Dup (B4B2123-MSD1)**

**Source: Y402260-01**

Prepared: 02/21/2024 Analyzed: 02/22/2024

Arsenic	8.49	0.0913	mg/kg	4.56	2.67	128	75-125	3.72	20	QM-07
Barium	653	9.13	"	456	64.2	129	75-125	5.80	20	QM-07
Cadmium	5.52	0.0913	"	4.56	0.0773	119	75-125	4.37	20	
Lead	10.5	0.913	"	4.56	4.94	123	75-125	6.62	20	
Nickel	13.0	0.913	"	4.56	7.02	131	75-125	5.28	20	QM-07
Selenium	5.11	0.0913	"	4.56	0.0887	110	75-125	6.58	20	
Zinc	86.0	9.13	"	45.6	27.8	128	75-125	7.99	20	QM-07

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 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**

**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			

**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			

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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

Benzo (a) anthracene	0.185	0.005	mg/kg	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			
Benzo (a) anthracene	0.193	0.005	"	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			

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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 B4A3106 - EPA 3580**

<b>Matrix Spike (B4A3106-MS1)</b>		<b>Source: Y401706-01</b>			Prepared: 01/31/2024 Analyzed: 02/09/2024					
Benzo (k) fluoranthene	0.171	0.020	mg/kg	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	
Benzo (k) fluoranthene	0.193	0.020	"	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

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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

Matrix Spike Dup (B4A3106-MSD1)	Source: Y401706-01			Prepared: 01/31/2024 Analyzed: 02/09/2024						
Fluorene	0.184	0.020	mg/kg	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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**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

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 (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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**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 B4B0215 - Saturated Paste pH/EC</b>										
<b>Blank (B4B0215-BLK1)</b>					Prepared: 02/02/2024 Analyzed: 02/03/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4B0215-DUP1)</b>					<b>Source: Y401738-01</b> Prepared: 02/02/2024 Analyzed: 02/03/2024					
pH	8.33		pH Units		8.24			1.09	25	
Specific Conductance (EC)	1.26	0.00500	mmhos/cm		1.20			4.59	25	

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 Project: Noble - Foos C 27-18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L734874 -</b>										
<b>DUP (L 87418-DUP)</b>		<b>Source: 87418</b>			Prepared: Analyzed: 02/26/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 87418-MS)</b>		<b>Source: 87418</b>			Prepared: Analyzed: 02/26/2024					
Chromium, Hexavalent	36.5	2.5	mg/Kg	39.5	< 0.244	92	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 02/26/2024								
Chromium, Hexavalent	6.11	0.5	mg/Kg	8		76	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 02/26/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Andrew Newberry  
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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 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.

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