

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure --		Tank Battery Closure --		Flowline Closure 12-19-18		Partially Buried Vault Closure --
Site Name & COGCC Facility Number: Foos C #11-14		Date: 1-3-24					Remediation Project #: 31096	
Associated Wells: 05-123-19246		Age of Site: years					Number of Photos Attached: 6	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							40.321190 / -104.520040	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)							Estimated Facility Size (acres):	
Good condition								
USCS Soil Type: SC					Estimated Depth to Groundwater: ~8-12'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Slight petroleum hydrocarbon odor observed on west sidewall and base of excavation; no staining observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Wellhead(s)								
Well API	05-123-19246							
Age	years							
Condition of surface around wellhead	Good - No odor/no staining							
PID Readings	WH-N: 7.2	WH-E: 8.1	WH-S: 6.1	WH-W: 7.5				
Condition of subsurface (staining present)	Slight petroleum hydrocarbon odor observed on west sidewall and base of excavation; no staining observed							
PID Readings	22.6	32.7	31.6	256.1	202.9			
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01			
Photo Number(s)	See photo log							
Other observations regarding wellheads:								
Well casing cut/capped following assessment								
Summary								
Was impacted soil identified?								
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: 256.1				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:								



FIGURES

Figure 1: Topographic Site Location Map

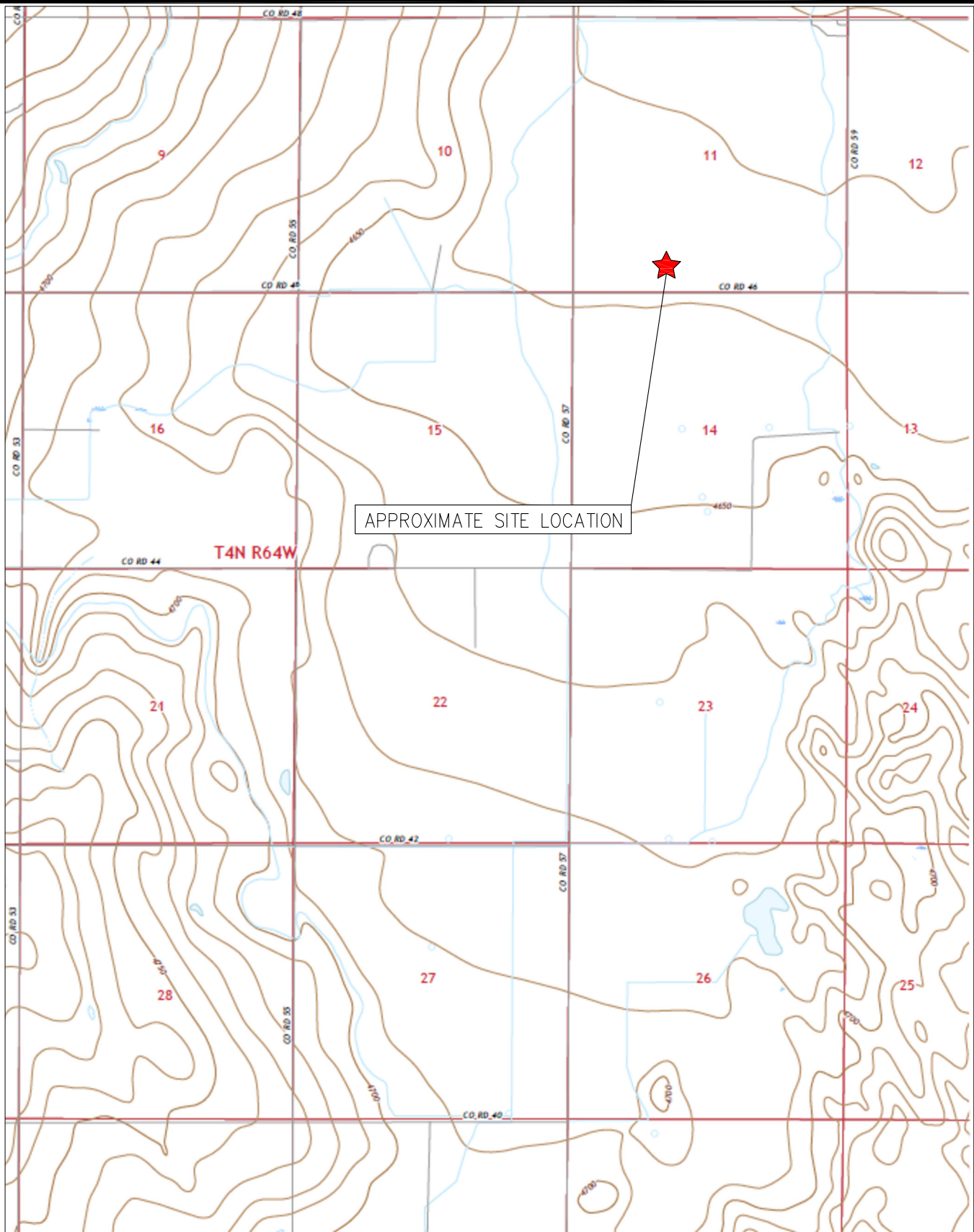
Figure 2: Aerial Site Location Map

Figure 3: Sample Location Map

Figure 4: Soil Analytical Map

Figure 5: Polycyclic Aromatic Hydrocarbons Map

Figure 6: Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
 FOOS C #11-14
 CLOSURE ASSESSMENT
 40.321190 / -104.520040
 SE¼ SW¼ SEC.11 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-19246
 REMEDIATION # 31096



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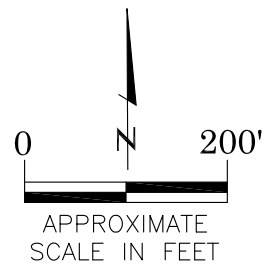
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 Ph: 303-433-0479 • F: 303-325-5449



LEGEND



FORMER FOOS C #11-14 WELLHEAD (PLUGGED AND ABANDONED)



AERIAL SITE LOCATION MAP

FOOS C #11-14
CLOSURE ASSESSMENT
40.321190 / -104.520040
SE $\frac{1}{4}$ SW $\frac{1}{4}$ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19246
REMEDATION # 31096

FIGURE NO.

2

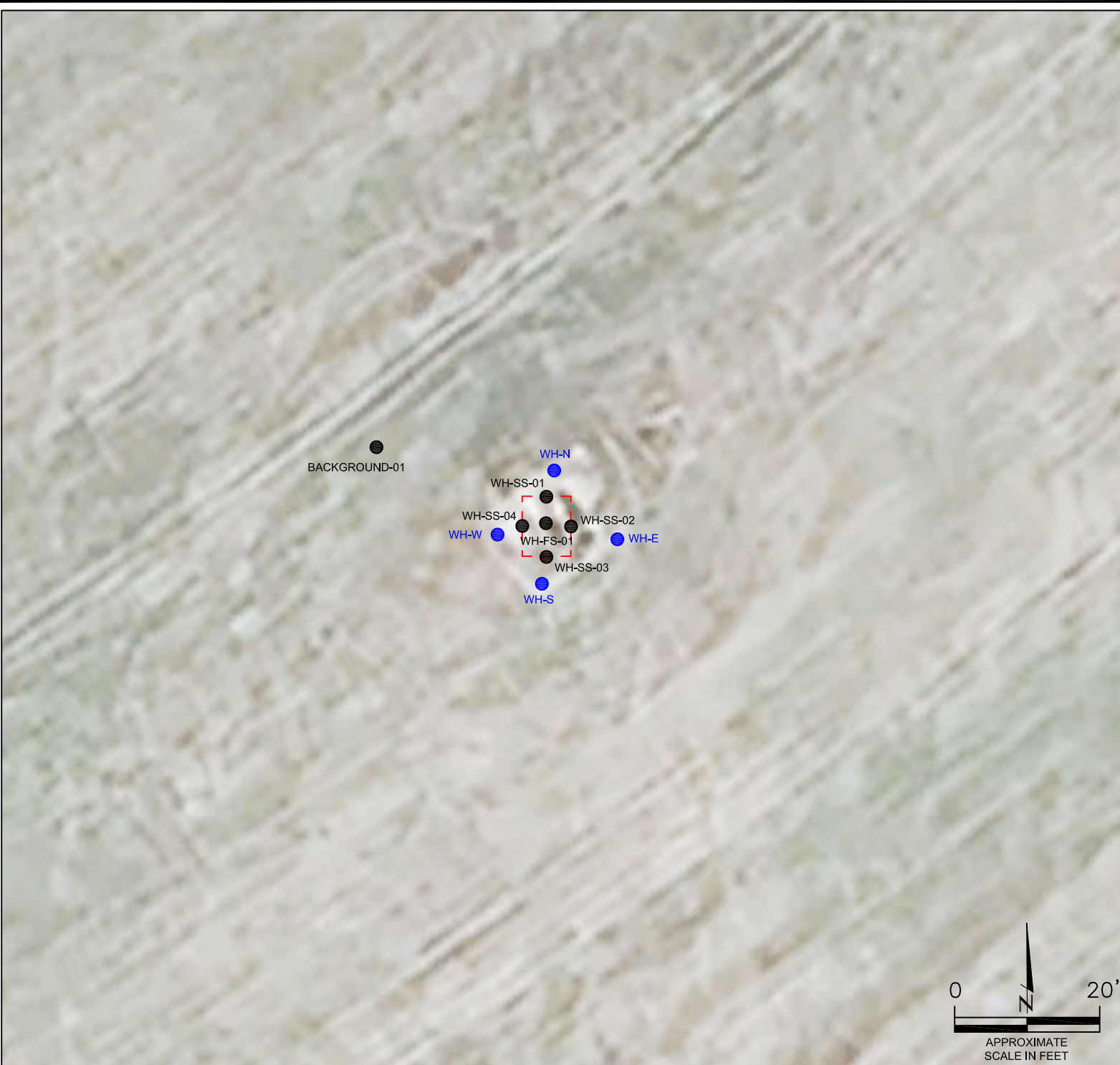
DRAWN BY:

KM



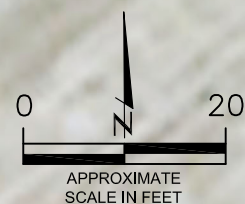
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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR



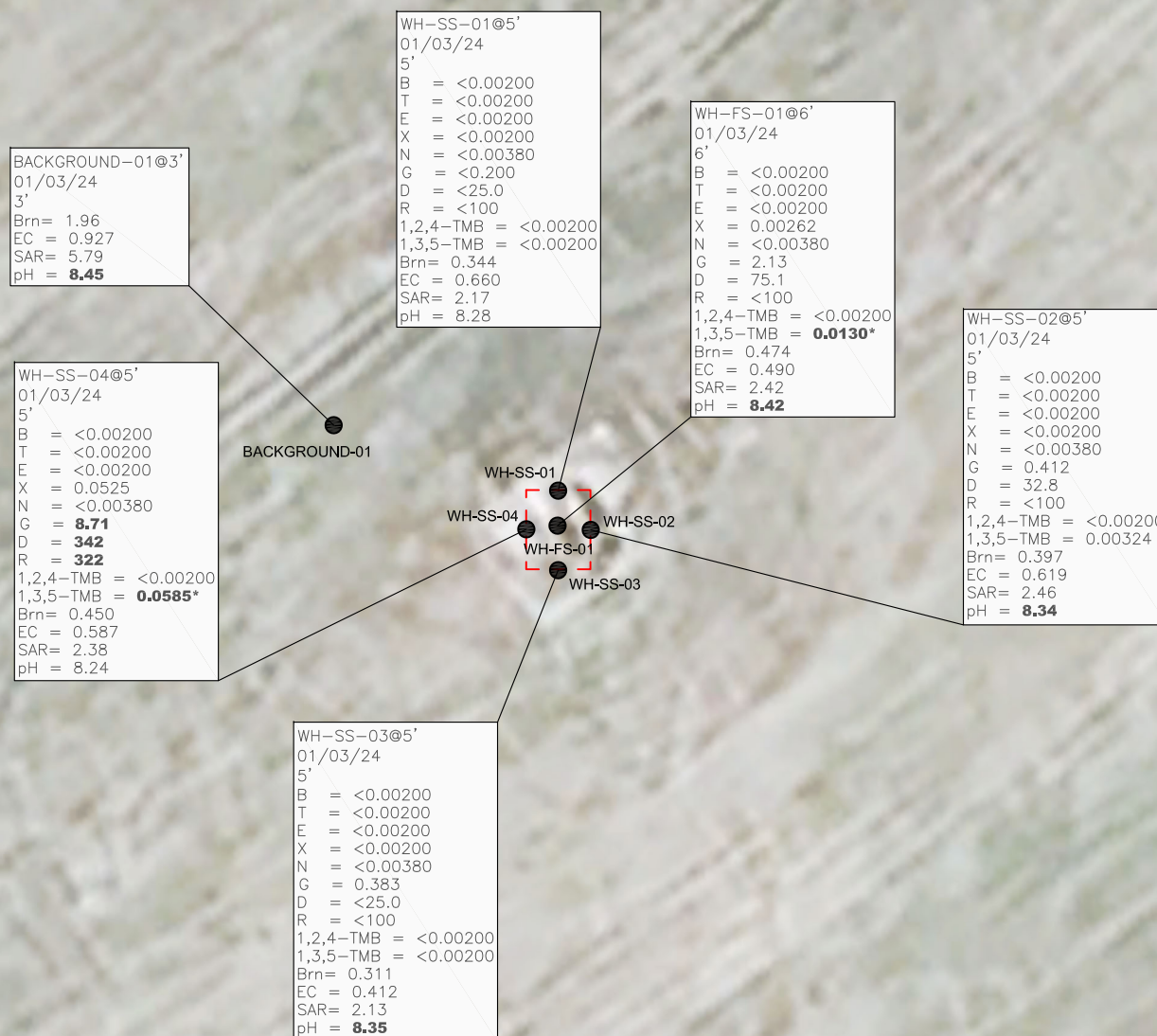
SAMPLE LOCATION MAP
FOOS C #11-14
CLOSURE ASSESSMENT
40.321190 / -104.520040
SE¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19246
REMEDIAION # 31096

FIGURE NO.
3

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES
SUBMITTED FOR LABORATORY ANALYSIS
- SS-02

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 = MILLIHOS 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.

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP

FOOS C #11-14
CLOSURE ASSESSMENT
40.321190 / -104.520040
SE¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19246
REMEDIAL # 31096

FIGURE NO.
4

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- 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

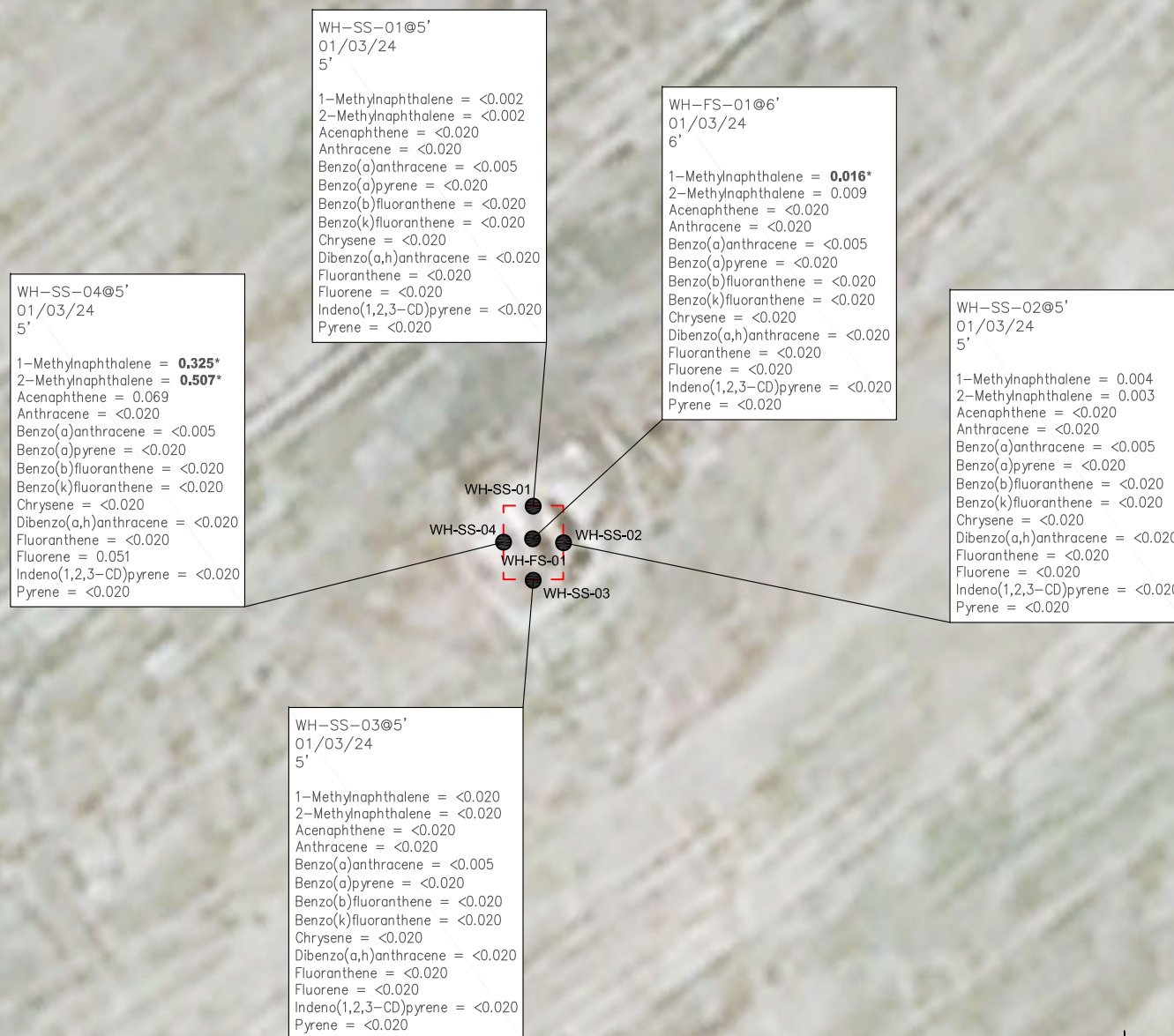
NOTES:

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

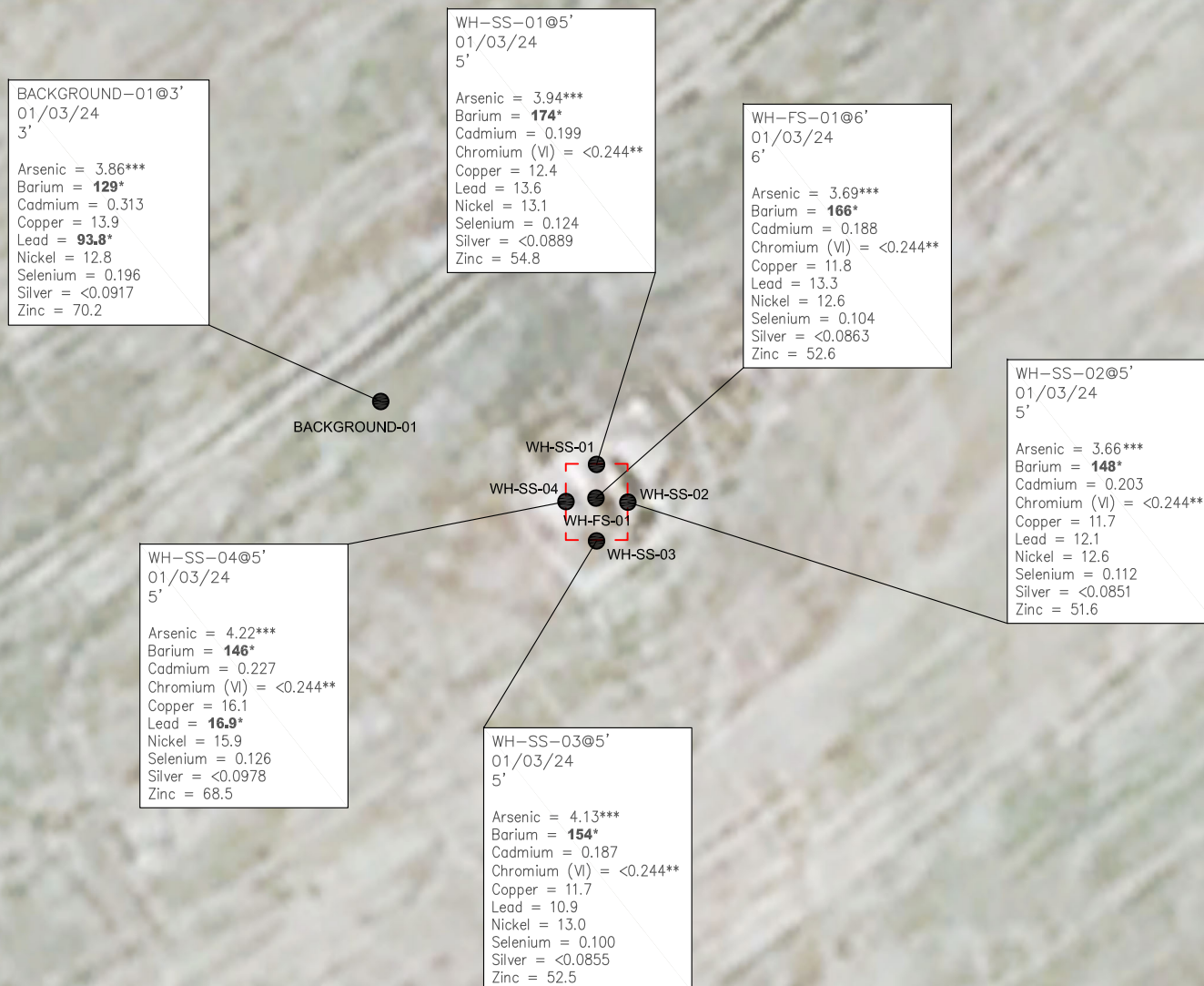
FOOS C #11-14
CLOSURE ASSESSMENT
40.321190 / -104.520040
SE¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19246
REMEDATION # 31096

FIGURE NO.
5

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- 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

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

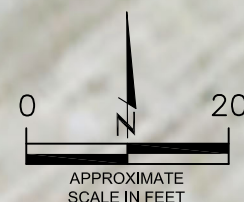
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

*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.

***ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVEL (4.83 mg/kg) is 1.25*BACKGROUND (3.86 mg/kg).

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION



METALS IN SOIL MAP
FOOS C #11-14
CLOSURE ASSESSMENT
40.321190 / -104.520040
SE¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19246
REMEDIAL # 31096

FIGURE NO.
6

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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
FOOS C #11-14
CLOSURE ASSESSMENT
40.321190 / -104.520040
SE¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19246
REMEDIATION # 31096

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.321192 / -104.520042)	01/03/24	5	22.6	Y
WH-SS-02 @ 5' (40.321180 / -104.520029)	01/03/24	5	32.7	Y
WH-SS-03 @ 5' (40.321169 / -104.520043)	01/03/24	5	31.6	Y
WH-SS-04 @ 5' (40.321179 / -104.520054)	01/03/24	5	256.1	Y
WH-FS-01 @ 6' (40.321180 / -104.520045)	01/03/24	6	202.9	Y
WH-N @ 0.5' (40.321202 / -104.520037)	01/03/24	0.5	7.2	N
WH-E @ 0.5' (40.321177 / -104.519994)	01/03/24	0.5	8.1	N
WH-S @ 0.5' (40.321156 / -104.520045)	01/03/24	0.5	6.1	N
WH-W @ 0.5' (40.321175 / -104.520067)	01/03/24	0.5	7.5	N
Background-01 @ 3' (40.321213 / -104.520125)	01/03/24	3.0	8.3	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
FOOS C #11-14
CLOSURE ASSESSMENT
40.321190 / -104.520040
SE¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19246
REMEDATION # 31096

Sample Location (Latitude / Longitude)				WH-SS-01 @ 5'	WH-SS-02 @ 5'	WH-SS-03 @ 5'
				(40.321192 / -104.520042)	(40.321180 / -104.520029)	(40.321169 / -104.520043)
Sample Date				1/3/2024	1/3/2024	1/3/2024
Sample Depth				5'	5'	5'
PID Reading (ppm-v)				22.6	32.7	31.6
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level		
VOCs						
Benzene	mg/kg	1.2	0.0026	--	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	--	<0.00380	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	0.00324
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	--	<0.200	0.412
TPH-DRO	mg/kg		--	--	<25.0	32.8
TPH-RRO	mg/kg		--	--	<100	<100
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	0.004
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	0.003
Acenaphthene	mg/kg	360	0.55	--	<0.020	<0.020
Anthracene	mg/kg	1800	5.8	--	<0.020	<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	<0.005
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.002	<0.002
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.002	<0.002
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.002	<0.002
Chrysene	mg/kg	110	9	--	<0.002	<0.002
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.002	<0.002
Fluoranthene	mg/kg	240	8.9	--	<0.002	<0.002
Fluorene	mg/kg	240	0.54	--	<0.002	<0.002
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.002	<0.002
Pyrene	mg/kg	180	1.3	--	<0.020	<0.020
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	--	0.344	0.397
pH	standard unit	6-8.3	--	--	8.28	8.34
Sodium Adsorption Ratio (SAR)	--	<6	--	--	2.17	2.46
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.660	0.619
METALS						
Arsenic	mg/kg	0.68***	0.29***	4.83***	3.94***	3.66***
Barium	mg/kg	15000	82	--	174*	148*
Cadmium	mg/kg	71	0.38	--	0.199	0.203
Copper	mg/kg	3100	46	--	12.4	11.7
Lead	mg/kg	400	14	--	13.6	12.1
Nickel	mg/kg	1500	26	--	13.1	12.6
Selenium	mg/kg	390	0.26	--	0.124	0.112
Silver	mg/kg	390	0.8	--	<0.0889	<0.0851
Zinc	mg/kg	23000	370	--	54.8	51.6
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.244**	<0.244**
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = milimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter VOCs - Volatile Organic Compounds 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. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Arsenic is naturally occurring in Colorado. The Local Clean-up Level (4.83 mg/kg) is 1.25*Background (3.86 mg/kg).						

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
FOOS C #11-14
CLOSURE ASSESSMENT
40.321190 / -104.520040
SE¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19246
REMEDATION # 31096

Sample Location				WH-SS-04 @ 5'	WH-FS-01 @ 6'	Background-01 @ 3'	
(Latitude / Longitude)				(40.321179 / -104.520054)	(40.321180 / -104.520045)	(40.321213 / -104.520125)	
Sample Date				1/3/2024	1/3/2024	1/3/2024	
Sample Depth				5'	6'	3'	
PID Reading (ppm-v)				256.1	202.9	8.3	
Regulatory Limits							
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level			
VOCs							
Benzene	mg/kg	1.2	0.0026	--	<0.00200	<0.00200	NA
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	--	0.0525	0.00262	NA
Naphthalene	mg/kg	2	0.0038	--	<0.00380	<0.00380	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	0.0585*	0.0130*	NA
TOTAL PETROLEUM HYDROCARBONS							
TPH-GRO	mg/kg	500	--	--	342	2.13	NA
TPH-DRO	mg/kg		--	--	322	75.1	NA
TPH-RRO	mg/kg		--	--	8.71	<100	NA
POLYCYCLIC AROMATIC HYDROCARBONS							
1-Methyl-naphthalene	mg/kg	18	0.006	--	0.325*	0.016*	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	0.507*	0.009	NA
Acenaphthene	mg/kg	360	0.55	--	0.069	<0.020	NA
Anthracene	mg/kg	1800	5.8	--	<0.020	<0.020	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	<0.005	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.002	<0.002	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.002	<0.002	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.002	<0.002	NA
Chrysene	mg/kg	110	9	--	<0.002	<0.002	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.002	<0.002	NA
Fluoranthene	mg/kg	240	8.9	--	<0.002	<0.002	NA
Fluorene	mg/kg	240	0.54	--	0.051	<0.002	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.002	<0.002	NA
Pyrene	mg/kg	180	1.3	--	<0.020	<0.020	NA
SOIL SUITABILITY (Inorganics)							
Boron	mg/L	2	--	--	0.450	0.474	1.96
pH	standard unit	6-8.3	--	--	8.24	8.42	8.45
Sodium Adsorption Ratio (SAR)	--	<6	--	--	2.38	2.42	5.79
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.587	0.490	0.927
METALS							
Arsenic	mg/kg	0.68***	0.29***	4.83***	4.22***	3.69***	3.86***
Barium	mg/kg	15000	82	--	146*	166*	129*
Cadmium	mg/kg	71	0.38	--	0.227	0.188	0.313
Copper	mg/kg	3100	46	--	16.1	11.8	13.9
Lead	mg/kg	400	14	--	16.9*	13.3	93.8*
Nickel	mg/kg	1500	26	--	15.9	12.6	12.8
Selenium	mg/kg	390	0.26	--	0.126	0.104	0.196
Silver	mg/kg	390	0.8	--	<0.0978	<0.0863	<0.0917
Zinc	mg/kg	23000	370	--	68.5	52.6	70.2
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.244**	<0.244**	NA
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 VOCs - Volatile Organic Compounds 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. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Arsenic is naturally occurring in Colorado. The Local Clean-up Level (4.83 mg/kg) is 1.25*Background (3.86 mg/kg).							



ATTACHMENT A

Photo Log

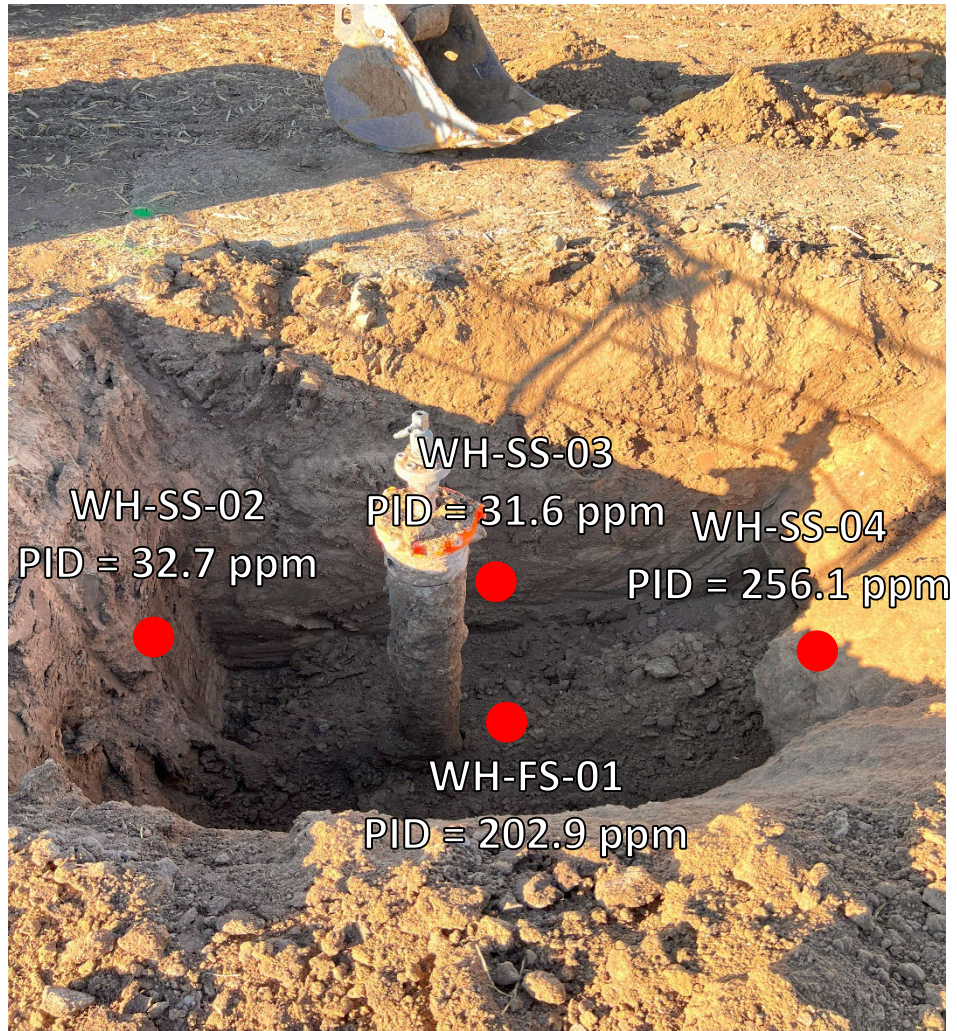
Foos C #11-14
API # 05-123-19246
Remediation # 31096

Closure Assessment

January 2024

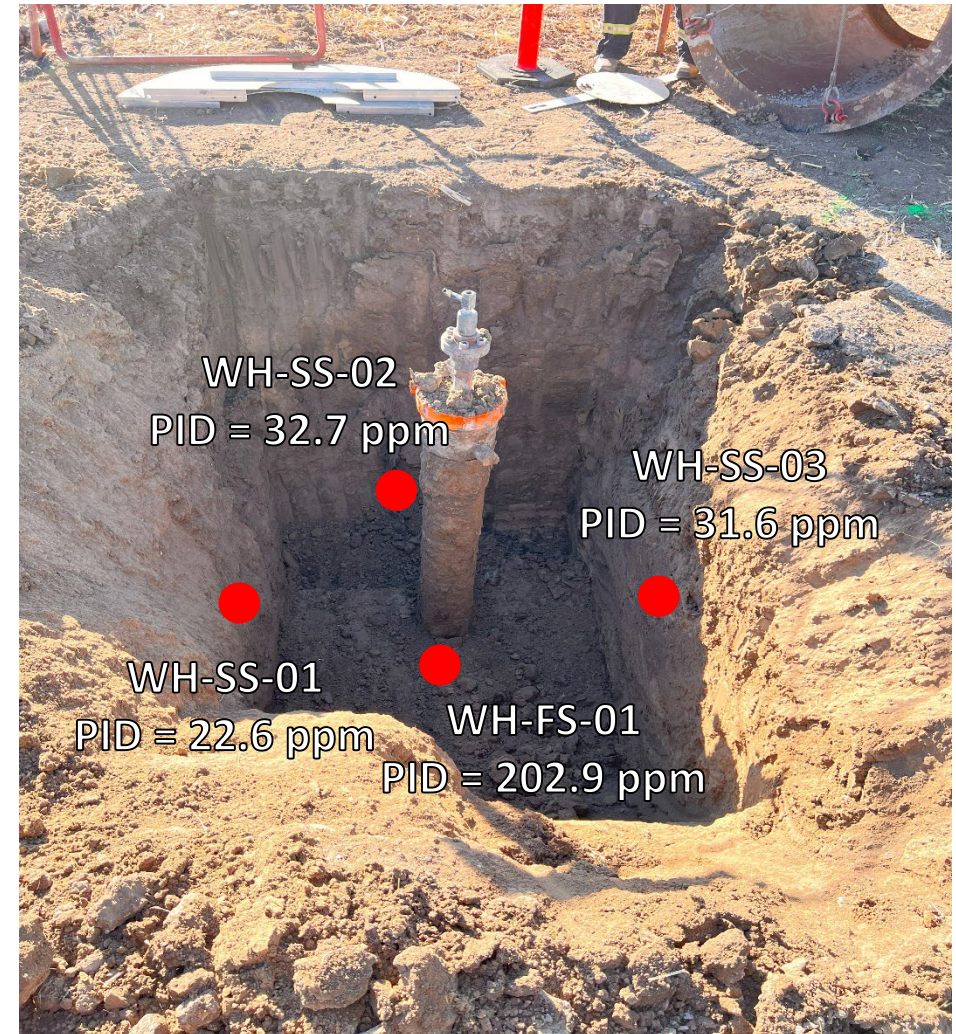


Wellhead Excavation – 01/03/24



Looking south

Slight petroleum hydrocarbon odor observed on west sidewall and base of excavation. No petroleum hydrocarbon staining observed.



Looking east

Slight petroleum hydrocarbon odor observed on west sidewall and base of excavation. No petroleum hydrocarbon staining observed.

Wellhead Surface – 01/03/24



Looking north

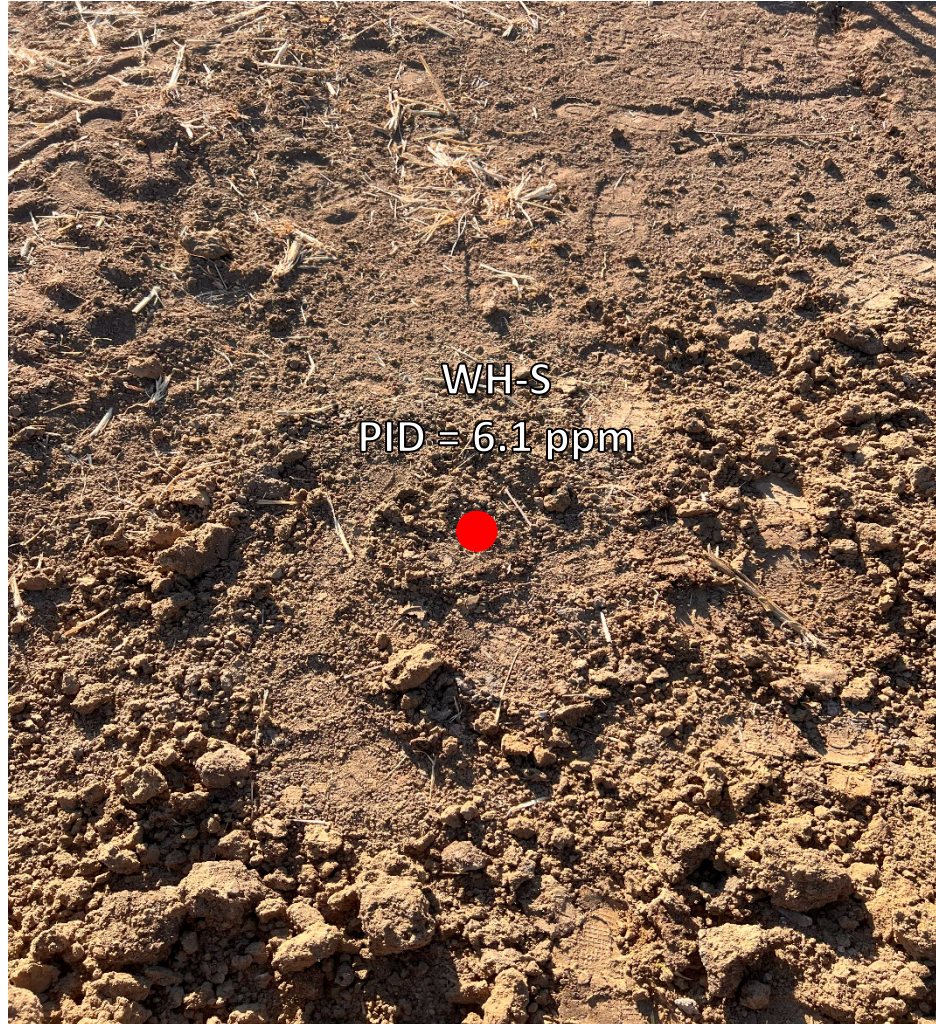
Site in good condition – no petroleum hydrocarbon staining or odor observed on surface around wellhead



Looking east

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

Wellhead Surface – 01/03/24



Looking south

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



Looking west

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



ATTACHMENT B

Laboratory Analytical Report



January 11, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Foos C #11-14

Project Number - [none]

Attached are your analytical results for Noble - Foos C #11-14 received by Origins Laboratory, Inc. January 03, 2024. This project is associated with Origins project number Y401055-01.

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

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

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

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

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

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y401055-01	Soil	January 3, 2024 14:27	01/03/2024 17:02
WH-SS-02@5'	Y401055-02	Soil	January 3, 2024 14:29	01/03/2024 17:02
WH-SS-03@5'	Y401055-03	Soil	January 3, 2024 14:31	01/03/2024 17:02
WH-SS-04@5'	Y401055-04	Soil	January 3, 2024 14:33	01/03/2024 17:02
WH-FS-01@6'	Y401055-05	Soil	January 3, 2024 14:35	01/03/2024 17:02
Background-01@3'	Y401055-06	Soil	January 3, 2024 14:20	01/03/2024 17:02

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 #11-14

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401055

Client: Eagle

Client Project ID: Foos C. 11-14

Checklist Completed by: EHS

Shipped Via: HD

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

Date/time completed: 1/13/12

Airbill #: N/A

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

Cooler Number/Temperature: 1/2 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	☒	☐	☐	
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 ⁽¹⁾ ?	☒	☐	☐	
Was adequate sample volume provided ⁽¹⁾ ?	☒	☐	☐	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	☐	☒	☐	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	☒	☐	☐	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	☒	☐	☐	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	☒	☐	☐	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	☒	☐	☐	
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 ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	☐	☒	☐	
Additional Comments (if any):				

⁽¹⁾ 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: JB (Project Manager)

Date/Time Reviewed: 1-5-24

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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

WH-SS-01@5'

1/3/2024 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.344	0.0993	mg/L	1	B4A0416	01/04/2024	01/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A0421	01/04/2024	01/06/2024	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	B4A0430	01/04/2024	01/05/2024	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 #11-14

WH-SS-01@5'

1/3/2024 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	B4A04 30	01/04/2024	01/05/2024
Surrogate: Toluene-d8	97.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	89.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.41	0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.70	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024	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.



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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 #11-14

WH-SS-01@5'

1/3/2024 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.28	pH Units	1	B4A0511	01/05/2024	01/06/2024
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SAR by 20B Saturated Paste

SAR	2.17	0.0100	SAR	1	B4A0504	01/05/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.660	0.00500	mmhos/cm	1	B4A0511	01/05/2024	01/06/2024
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Table 915 metals by EPA 6020B

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 #11-14

WH-SS-01@5'

1/3/2024 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.94	0.0889	mg/kg	10	B4A0434	01/05/2024	01/08/2024
Barium	174	8.89	"	"	"	"	"
Cadmium	0.199	0.0889	"	"	"	"	"
Copper	12.4	8.89	"	"	"	"	"
Lead	13.6	0.889	"	"	"	"	"
Nickel	13.1	0.889	"	"	"	"	"
Selenium	0.124	0.0889	"	"	"	"	"
Silver	ND	0.0889	"	"	"	"	"
Zinc	54.8	8.89	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726887	01/03/2024	01/10/2024
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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 #11-14

WH-SS-02@5'

1/3/2024 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.397	0.0999	mg/L	1	B4A0507	01/05/2024	01/08/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	32.8	25.0	mg/kg	1	B4A0421	01/04/2024	01/06/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.0 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0430	01/04/2024	01/05/2024	U
1,3,5-Trimethylbenzene	0.00324	0.00200	"	"	"	"	"	
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	0.412	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

WH-SS-02@5'

1/3/2024 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.5 %	70-130				B4A04 30	01/04/2024	01/05/2024	
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.12	0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	2.86	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024	
2-Methylnaphthalene	0.003	0.002	"	"	"	"	"	
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
Fluoranthene	ND	0.020	"	"	"	"	"	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 #11-14

WH-SS-02@5'

1/3/2024 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.5 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.34	pH Units	1	B4A0511	01/05/2024	01/06/2024
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SAR by 20B Saturated Paste

SAR	2.46	0.0100	SAR	1	B4A0504	01/05/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.619	0.00500	mmhos/cm	1	B4A0511	01/05/2024	01/06/2024
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Table 915 metals by EPA 6020B

Arsenic	3.66	0.0851	mg/kg	10	B4A0434	01/05/2024	01/08/2024
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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 #11-14

WH-SS-02@5'

1/3/2024 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-02 (Soil)

Table 915 metals by EPA 6020B

Barium	148	8.51	mg/kg	10	B4A0434	01/05/2024	01/08/2024
Cadmium	0.203	0.0851	"	"	"	"	"
Copper	11.7	8.51	"	"	"	"	"
Lead	12.1	0.851	"	"	"	"	"
Nickel	12.6	0.851	"	"	"	"	"
Selenium	0.112	0.0851	"	"	"	"	"
Silver	ND	0.0851	"	"	"	"	"
Zinc	51.6	8.51	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726887	01/03/2024	01/10/2024
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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 #11-14

WH-SS-03@5'

1/3/2024 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.311	0.100	mg/L	1	B4A0507	01/05/2024	01/08/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A0421	01/04/2024	01/06/2024	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	B4A0430	01/04/2024	01/05/2024	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	0.383	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.

Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

WH-SS-03@5'

1/3/2024 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	B4A04 30	01/04/2024	01/05/2024
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.0 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.56	0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.05	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024	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 #11-14

WH-SS-03@5'

1/3/2024 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-03 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.35	pH Units	1	B4A0511	01/05/2024	01/06/2024
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SAR by 20B Saturated Paste

SAR	2.13	0.0100	SAR	1	B4A0504	01/05/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.412	0.00500	mmhos/cm	1	B4A0511	01/05/2024	01/06/2024
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Table 915 metals by EPA 6020B

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 #11-14

WH-SS-03@5'

1/3/2024 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.13	0.0855	mg/kg	10	B4A0434	01/05/2024	01/08/2024
Barium	154	8.55	"	"	"	"	"
Cadmium	0.187	0.0855	"	"	"	"	"
Copper	11.7	8.55	"	"	"	"	"
Lead	10.9	0.855	"	"	"	"	"
Nickel	13.0	0.855	"	"	"	"	"
Selenium	0.100	0.0855	"	"	"	"	"
Silver	ND	0.0855	"	"	"	"	"
Zinc	52.5	8.55	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726887	01/03/2024	01/10/2024
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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 #11-14

WH-SS-04@5'

1/3/2024 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.450	0.101	mg/L	1	B4A0507	01/05/2024	01/08/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	342	25.0	mg/kg	1	B4A0421	01/04/2024	01/06/2024
Residual Range Organics (C28-C40)	322	100	"	"	"	"	"

Surrogate: o-Terphenyl	110 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0430	01/04/2024	01/05/2024	U
1,3,5-Trimethylbenzene	0.0585	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.0525	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.71	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

WH-SS-04@5'

1/3/2024 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %	70-130				B4A04 30	01/04/2024	01/05/2024	
Surrogate: 4-Bromofluorobenzene	86.4 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.07	0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	2.79	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.325	0.002	mg/kg	1	B4A0506	"	01/05/2024	
2-Methylnaphthalene	0.507	0.002	"	"	"	"	"	
Acenaphthene	0.069	0.020	"	"	"	"	"	
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
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	0.051	0.020	"	"	"	"	"	

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 #11-14

WH-SS-04@5'

1/3/2024 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-04 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	77.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.24	pH Units	1	B4A0512	01/05/2024	01/06/2024
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SAR by 20B Saturated Paste

SAR	2.38	0.0100	SAR	1	B4A0505	01/05/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.587	0.00500	mmhos/cm	1	B4A0512	01/05/2024	01/06/2024
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Table 915 metals by EPA 6020B

Arsenic	4.22	0.0978	mg/kg	10	B4A0434	01/05/2024	01/08/2024
Barium	146	9.78	"	"	"	"	"

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 #11-14

WH-SS-04@5'

1/3/2024 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.227	0.0978	mg/kg	10	B4A0434	01/05/2024	01/08/2024
Copper	16.1	9.78	"	"	"	"	"
Lead	16.9	0.978	"	"	"	"	"
Nickel	15.9	0.978	"	"	"	"	"
Selenium	0.126	0.0978	"	"	"	"	"
Silver	ND	0.0978	"	"	"	"	"
Zinc	68.5	9.78	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726887	01/03/2024	01/10/2024
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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 #11-14

WH-FS-01@6'

1/3/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.474	0.101	mg/L	1	B4A0507	01/05/2024	01/08/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	75.1	25.0	mg/kg	1	B4A0421	01/04/2024	01/06/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	106 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0430	01/04/2024	01/05/2024	U
1,3,5-Trimethylbenzene	0.0130	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00262	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.13	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

WH-FS-01@6'

1/3/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130				B4A04 30	01/04/2024	01/05/2024	
Surrogate: 4-Bromofluorobenzene	86.9 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.76	0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	2.54	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.016	0.002	mg/kg	1	B4A0506	"	01/05/2024	
2-Methylnaphthalene	0.009	0.002	"	"	"	"	"	
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
Fluoranthene	ND	0.020	"	"	"	"	"	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 #11-14

WH-FS-01@6'

1/3/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-05 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.42	pH Units	1	B4A0512	01/05/2024	01/06/2024
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SAR by 20B Saturated Paste

SAR	2.42	0.0100	SAR	1	B4A0505	01/05/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.490	0.00500	mmhos/cm	1	B4A0512	01/05/2024	01/06/2024
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Table 915 metals by EPA 6020B

Arsenic	3.69	0.0863	mg/kg	10	B4A0434	01/05/2024	01/08/2024
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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 #11-14

WH-FS-01@6'

1/3/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-05 (Soil)

Table 915 metals by EPA 6020B

Barium	166	8.63	mg/kg	10	B4A0434	01/05/2024	01/08/2024
Cadmium	0.188	0.0863	"	"	"	"	"
Copper	11.8	8.63	"	"	"	"	"
Lead	13.3	0.863	"	"	"	"	"
Nickel	12.6	0.863	"	"	"	"	"
Selenium	0.104	0.0863	"	"	"	"	"
Silver	ND	0.0863	"	"	"	"	"
Zinc	52.6	8.63	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726890	01/03/2024	01/10/2024
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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 #11-14

Background-01@3'
1/3/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.96	0.0991	mg/L	1	B4A0507	01/05/2024	01/08/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.64	0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.24	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.45		pH Units	1	B4A0512	01/05/2024	01/06/2024
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SAR by 20B Saturated Paste

SAR	5.79	0.0100	SAR	1	B4A0505	01/05/2024	01/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.927	0.00500	mmhos/cm	1	B4A0512	01/05/2024	01/06/2024
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Table 915 metals by EPA 6020B

Arsenic	3.86	0.0917	mg/kg	10	B4A0434	01/05/2024	01/08/2024
Barium	129	9.17	"	"	"	"	"
Cadmium	0.313	0.0917	"	"	"	"	"
Copper	13.9	9.17	"	"	"	"	"

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 #11-14

Background-01@3'

1/3/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y401055-06 (Soil)

Table 915 metals by EPA 6020B

Lead	93.8	0.917	mg/kg	10	B4A0434	01/05/2024	01/08/2024
Nickel	12.8	0.917	"	"	"	"	"
Selenium	0.196	0.0917	"	"	"	"	"
Silver	ND	0.0917	"	"	"	"	"
Zinc	70.2	9.17	"	"	"	"	"

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 #11-14

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
Batch B4A0421 - EPA 3550B										
Blank (B4A0421-BLK1)					Prepared: 01/04/2024 Analyzed: 01/06/2024					
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.



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 #11-14

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
Batch B4A0421 - EPA 3550B										
LCS (B4A0421-BS1)					Prepared: 01/04/2024 Analyzed: 01/06/2024					
Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Residual Range Organics (C28-C40)	775	200	"	1000		77.5	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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 #11-14

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
Batch B4A0421 - EPA 3550B										
Matrix Spike (B4A0421-MS1)		Source: Y401037-01			Prepared: 01/04/2024 Analyzed: 01/06/2024					
Diesel (C10-C28)	2600	50.0	mg/kg	1000	1120	148	70-130			QM-07
Residual Range Organics (C28-C40)	1620	200	"	1000	526	109	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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.

Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

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
Batch B4A0421 - EPA 3550B										
Matrix Spike Dup (B4A0421-MSD1)		Source: Y401037-01			Prepared: 01/04/2024 Analyzed: 01/06/2024					
Diesel (C10-C28)	2390	50.0	mg/kg	1000	1120	126	70-130	8.71	35	
Residual Range Organics (C28-C40)	1540	200	"	1000	526	101	70-130	4.97	35	
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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.

Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

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
Batch B4A0430 - EPA 5030 (soil)										
Blank (B4A0430-BLK1)					Prepared: 01/04/2024 Analyzed: 01/05/2024					
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	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	88.6		70-130			

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 #11-14

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 B4A0430 - EPA 5030 (soil)

LCS (B4A0430-BS1)

Prepared: 01/04/2024 Analyzed: 01/05/2024

1,2,4-Trimethylbenzene	0.0961	0.00200	mg/kg	0.100		96.1	70-130			
1,3,5-Trimethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
Benzene	0.0978	0.00200	"	0.100		97.8	70-130			
Ethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
Naphthalene	0.0885	0.00380	"	0.100		88.5	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.0920	0.00200	"	0.100		92.0	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.8	70-130			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

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
Batch B4A0430 - EPA 5030 (soil)										
Matrix Spike (B4A0430-MS1)		Source: Y401053-01			Prepared: 01/04/2024 Analyzed: 01/05/2024					
1,2,4-Trimethylbenzene	0.0852	0.00200	mg/kg	0.100	ND	85.2	70-130			
1,3,5-Trimethylbenzene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
Benzene	0.0926	0.00200	"	0.100	ND	92.6	70-130			
Ethylbenzene	0.0854	0.00200	"	0.100	ND	85.4	70-130			
Naphthalene	0.0928	0.00380	"	0.100	ND	92.8	70-130			
Toluene	0.0937	0.00200	"	0.100	ND	93.7	70-130			
o-Xylene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
m,p-Xylene	0.172	0.00400	"	0.200	ND	85.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.5	70-130			

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 #11-14

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
Batch B4A0430 - EPA 5030 (soil)										
Matrix Spike Dup (B4A0430-MSD1)			Source: Y401053-01		Prepared: 01/04/2024 Analyzed: 01/05/2024					
1,2,4-Trimethylbenzene	0.0881	0.00200	mg/kg	0.100	ND	88.1	70-130	3.42	20	
1,3,5-Trimethylbenzene	0.0861	0.00200	"	0.100	ND	86.1	70-130	1.10	20	
Benzene	0.0947	0.00200	"	0.100	ND	94.7	70-130	2.28	20	
Ethylbenzene	0.0860	0.00200	"	0.100	ND	86.0	70-130	0.770	20	
Naphthalene	0.0969	0.00380	"	0.100	ND	96.9	70-130	4.32	20	
Toluene	0.0956	0.00200	"	0.100	ND	95.6	70-130	2.09	20	
o-Xylene	0.0851	0.00200	"	0.100	ND	85.1	70-130	1.37	20	
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.5	70-130	0.708	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.9	70-130			

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 #11-14

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 B4A0434 - EPA 3050B

Blank (B4A0434-BLK1)

Prepared: 01/05/2024 Analyzed: 01/08/2024

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 (B4A0434-BS1)

Prepared: 01/05/2024 Analyzed: 01/08/2024

Arsenic	5.17	0.0100	mg/kg	5.00	103	80-120
Barium	498	1.00	"	500	99.6	80-120
Cadmium	5.08	0.0100	"	5.00	102	80-120
Copper	50.6	1.00	"	50.0	101	80-120
Lead	5.10	0.100	"	5.00	102	80-120
Nickel	5.32	0.100	"	5.00	106	80-120
Selenium	4.77	0.0100	"	5.00	95.3	80-120
Silver	5.14	0.0100	"	5.00	103	80-120
Zinc	50.3	1.00	"	50.0	101	80-120

Matrix Spike (B4A0434-MS1)

Source: Y401053-01

Prepared: 01/05/2024 Analyzed: 01/08/2024

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

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
Batch B4A0434 - EPA 3050B										
Matrix Spike (B4A0434-MS1)		Source: Y401053-01			Prepared: 01/05/2024 Analyzed: 01/08/2024					
Arsenic	7.91	0.0949	mg/kg	4.75	3.43	94.5	75-125			
Barium	595	9.49	"	475	112	102	75-125			
Cadmium	4.99	0.0949	"	4.75	0.160	102	75-125			
Copper	52.2	9.49	"	47.5	9.03	90.9	75-125			
Lead	13.4	0.949	"	4.75	9.09	90.0	75-125			
Nickel	14.5	0.949	"	4.75	11.3	68.2	75-125			QM-07
Selenium	4.70	0.0949	"	4.75	0.0818	97.2	75-125			
Silver	4.97	0.0949	"	4.75	0.0278	104	75-125			
Zinc	86.0	9.49	"	47.5	47.0	82.1	75-125			
Matrix Spike Dup (B4A0434-MSD1)		Source: Y401053-01			Prepared: 01/05/2024 Analyzed: 01/08/2024					
Arsenic	8.35	0.0988	mg/kg	4.94	3.43	99.7	75-125	5.43	20	
Barium	624	9.88	"	494	112	104	75-125	4.72	20	
Cadmium	5.21	0.0988	"	4.94	0.160	102	75-125	4.35	20	
Copper	54.5	9.88	"	49.4	9.03	92.0	75-125	4.28	20	
Lead	13.8	0.988	"	4.94	9.09	95.5	75-125	3.30	20	
Nickel	15.3	0.988	"	4.94	11.3	82.5	75-125	5.61	20	QM-07
Selenium	5.01	0.0988	"	4.94	0.0818	99.8	75-125	6.52	20	
Silver	5.23	0.0988	"	4.94	0.0278	105	75-125	5.07	20	
Zinc	90.4	9.88	"	49.4	47.0	87.7	75-125	4.96	20	

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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 #11-14

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 B4A0506 - EPA 3580

Blank (B4A0506-BLK1)

Prepared: 01/05/2024 Analyzed: 01/05/2024

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		97.5	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

LCS (B4A0506-BS1)

Prepared: 01/05/2024 Analyzed: 01/05/2024

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.5	70-130			
Acenaphthene	0.182	0.020	"	0.200		91.0	70-130			
Anthracene	0.172	0.020	"	0.200		86.0	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

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 B4A0506 - EPA 3580

LCS (B4A0506-BS1)

Prepared: 01/05/2024 Analyzed: 01/05/2024

Benzo (a) anthracene	0.194	0.005	mg/kg	0.200		97.0	70-130
Benzo (a) pyrene	0.231	0.020	"	0.200		116	70-130
Benzo (b) fluoranthene	0.201	0.020	"	0.200		101	70-130
Benzo (g,h,i) perylene	0.212	0.020	"	0.200		106	70-130
Benzo (k) fluoranthene	0.176	0.020	"	0.200		88.1	70-130
Chrysene	0.189	0.020	"	0.200		94.6	70-130
Dibenz (a,h) anthracene	0.203	0.020	"	0.200		101	70-130
Fluoranthene	0.184	0.020	"	0.200		91.8	70-130
Fluorene	0.182	0.020	"	0.200		90.8	70-130
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		91.1	70-130
Naphthalene	0.196	0.002	"	0.200		97.8	70-130
Phenanthrene	0.184	0.020	"	0.200		92.2	70-130
Pyrene	0.193	0.020	"	0.200		96.6	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		97.5	60-130
Surrogate: Anthracene-d10	200		"	200		99.1	60-130
Surrogate: Pyrene-d10	200		"	200		99.2	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

Matrix Spike (B4A0506-MS1)

Source: Y401051-01

Prepared: 01/05/2024 Analyzed: 01/05/2024

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	0.0006	104	70-130
2-Methylnaphthalene	0.206	0.002	"	0.200	0.001	103	70-130
Acenaphthene	0.188	0.020	"	0.200	ND	93.8	70-130
Anthracene	0.179	0.020	"	0.200	ND	89.6	70-130
Benzo (a) anthracene	0.199	0.005	"	0.200	0.001	98.8	70-130
Benzo (a) pyrene	0.234	0.020	"	0.200	ND	117	70-130
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.002	106	70-130
Benzo (g,h,i) perylene	0.214	0.020	"	0.200	ND	107	70-130

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 #11-14

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 B4A0506 - EPA 3580

Matrix Spike (B4A0506-MS1)		Source: Y401051-01			Prepared: 01/05/2024 Analyzed: 01/05/2024					
Benzo (k) fluoranthene	0.188	0.020	mg/kg	0.200	ND	94.0	70-130			
Chrysene	0.196	0.020	"	0.200	0.0009	97.7	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	98.2	70-130			
Fluoranthene	0.190	0.020	"	0.200	0.0007	94.8	70-130			
Fluorene	0.188	0.020	"	0.200	ND	93.9	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200	0.002	94.6	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	95.0	70-130			
Pyrene	0.198	0.020	"	0.200	ND	99.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	200		"	200		99.0	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B4A0506-MSD1)		Source: Y401051-01			Prepared: 01/05/2024 Analyzed: 01/05/2024					
1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	0.0006	107	70-130	2.65	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	0.001	105	70-130	2.10	20	
Acenaphthene	0.193	0.020	"	0.200	ND	96.6	70-130	2.92	20	
Anthracene	0.184	0.020	"	0.200	ND	91.8	70-130	2.40	20	
Benzo (a) anthracene	0.206	0.005	"	0.200	0.001	103	70-130	3.72	20	
Benzo (a) pyrene	0.222	0.020	"	0.200	ND	111	70-130	5.16	20	
Benzo (b) fluoranthene	0.209	0.020	"	0.200	0.002	103	70-130	2.36	20	
Benzo (g,h,i) perylene	0.217	0.020	"	0.200	ND	108	70-130	1.23	20	
Benzo (k) fluoranthene	0.209	0.020	"	0.200	ND	105	70-130	10.7	20	
Chrysene	0.201	0.020	"	0.200	0.0009	100	70-130	2.35	20	
Dibenz (a,h) anthracene	0.219	0.020	"	0.200	ND	109	70-130	10.9	20	
Fluoranthene	0.193	0.020	"	0.200	0.0007	96.2	70-130	1.39	20	

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 #11-14

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 B4A0506 - EPA 3580

Matrix Spike Dup (B4A0506-MSD1)		Source: Y401051-01			Prepared: 01/05/2024 Analyzed: 01/05/2024					
Fluorene	0.190	0.020	mg/kg	0.200	ND	94.8	70-130	1.01	20	
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	0.002	93.0	70-130	1.72	20	
Naphthalene	0.207	0.002	"	0.200	ND	104	70-130	2.94	20	
Phenanthrene	0.199	0.020	"	0.200	ND	99.7	70-130	4.85	20	
Pyrene	0.203	0.020	"	0.200	ND	102	70-130	2.53	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.3	60-130			
Surrogate: Anthracene-d10	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

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 B4A0416 - DTPA Sorbitol Preparation

Blank (B4A0416-BLK1)

Prepared: 01/04/2024 Analyzed: 01/05/2024

Boron ND 0.100 mg/L

Duplicate (B4A0416-DUP1)

Source: Y401044-01

Prepared: 01/04/2024 Analyzed: 01/05/2024

Boron 0.175 0.0992 mg/L 0.164 6.08 50

Batch B4A0504 - Saturated Paste Metals

Blank (B4A0504-BLK1)

Prepared: 01/05/2024 Analyzed: 01/08/2024

SAR ND 0.0100 SAR
Calcium PPM ND 1.00 mg/L
Magnesium PPM ND 1.00 "
Sodium PPM ND 1.00 "

Duplicate (B4A0504-DUP1)

Source: Y401053-01

Prepared: 01/05/2024 Analyzed: 01/08/2024

SAR ND 0.0100 SAR 2.16 200
Calcium PPM 18.6 10.0 mg/L 19.0 2.02 50
Magnesium PPM 5.15 10.0 " 5.27 2.30 50
Sodium PPM 40.9 10.0 " 41.2 0.829 50

Batch B4A0505 - Saturated Paste Metals

Blank (B4A0505-BLK1)

Prepared: 01/05/2024 Analyzed: 01/08/2024

SAR ND 0.0100 SAR
Calcium PPM ND 1.00 mg/L
Magnesium PPM ND 1.00 "
Sodium PPM ND 1.00 "

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 #11-14

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 B4A0505 - Saturated Paste Metals

Duplicate (B4A0505-DUP1)		Source: Y401055-04			Prepared: 01/05/2024 Analyzed: 01/08/2024					
Calcium PPM	42.6	10.0	mg/L		41.4			2.62	50	
SAR	ND	0.0100	SAR		2.38				200	
Magnesium PPM	8.58	10.0	mg/L		8.12			5.51	50	
Sodium PPM	67.4	10.0	"		64.1			5.04	50	

Batch B4A0507 - DTPA Sorbitol Preparation

Blank (B4A0507-BLK1)					Prepared: 01/05/2024 Analyzed: 01/08/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4A0507-DUP1)		Source: Y401055-02			Prepared: 01/05/2024 Analyzed: 01/08/2024					
Boron	0.474	0.0998	mg/L		0.397			17.7	50	

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 #11-14

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 B4A0511 - Saturated Paste pH/EC

Blank (B4A0511-BLK1)

Prepared: 01/05/2024 Analyzed: 01/06/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4A0511-DUP1)

Source: Y401053-01

Prepared: 01/05/2024 Analyzed: 01/06/2024

Specific Conductance (EC)	0.324	0.00500	mmhos/cm	0.283	13.5	25
pH	8.39		pH Units	8.41	0.238	25

Batch B4A0512 - Saturated Paste pH/EC

Blank (B4A0512-BLK1)

Prepared: 01/05/2024 Analyzed: 01/06/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4A0512-DUP1)

Source: Y401055-04

Prepared: 01/05/2024 Analyzed: 01/06/2024

pH	8.04		pH Units	8.24	2.46	25
Specific Conductance (EC)	0.627	0.00500	mmhos/cm	0.587	6.59	25

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Jordan A. Bynon, Project Manager

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Andrew Newberry
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Project: Noble - Foos C #11-14

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
Batch L726890 -										
DUP (L 86102-DUP)		Source: 86102			Prepared: Analyzed: 01/10/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 86102-MS)		Source: 86102			Prepared: Analyzed: 01/10/2024					
Chromium, Hexavalent	29.7	2.5	mg/Kg	38.8	<1.22	77	75-125			
LCS (LCS)					Prepared: Analyzed: 01/10/2024					
Chromium, Hexavalent	6.11	0.5	mg/Kg	8		76	75-125			
LRB (LRB)					Prepared: Analyzed: 01/10/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

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
Batch L726887 -										
DUP (L 86083-DUP)		Source: 86083			Prepared: Analyzed: 01/10/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 86083-MS)		Source: 86083			Prepared: Analyzed: 01/10/2024					
Chromium, Hexavalent	31	2.5	mg/Kg	39.5	<1.22	78	75-125			
LCS (LCS)					Prepared: Analyzed: 01/10/2024					
Chromium, Hexavalent	6.11	0.5	mg/Kg	8		76	75-125			
LRB (LRB)					Prepared: Analyzed: 01/10/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

Notes and Definitions

U Sample is Non-Detect.

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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