

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 11-25		Date: 1-10-24					Remediation Project #: 31162	
Associated Wells: 05-123-23389		Age of Site: years					Number of Photos Attached: 6	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							40.323300 / -104.522570	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Good condition								
USCS Soil Type: CL					Estimated Depth to Groundwater: ~10-15'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Strong petroleum hydrocarbon odor observed within 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	05-123-23389							
Age	years							
Condition of surface around wellhead	Good - No odor/no staining							
PID Readings	WH-N: 0.8	WH-E: 0.7	WH-S: 0.7	WH-W: 0.9				
Condition of subsurface (staining present)	Strong petroleum hydrocarbon odor observed throughout excavation; no staining observed							
PID Readings	33.4	853.2	953.4	788.5	147.1			
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: 953.4				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

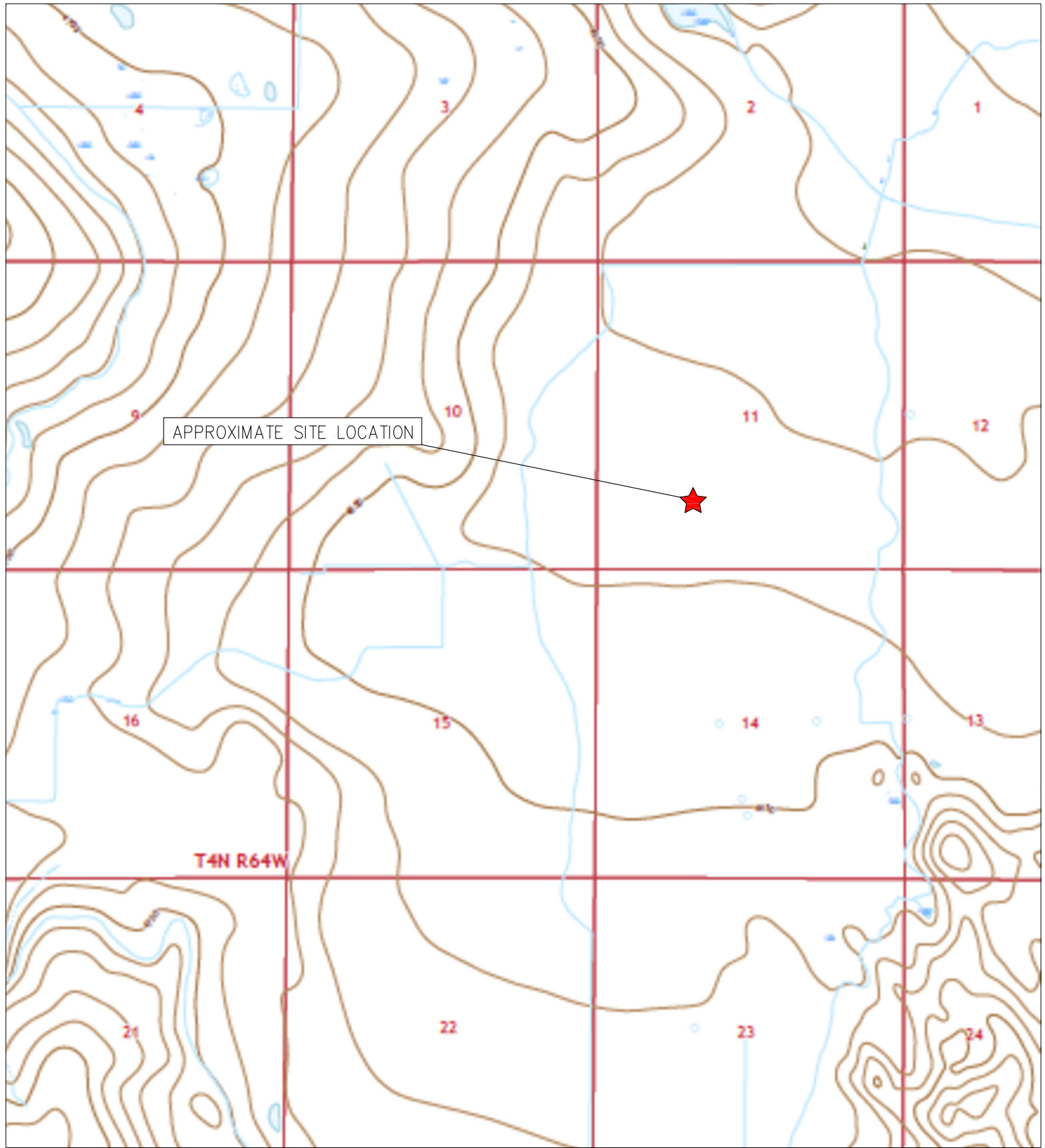
Figure 2: Aerial Site Location Map

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 11-25
CLOSURE ASSESSMENT
40.323300 / -104.522570
SW¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-23389
REMEDATION # 31162

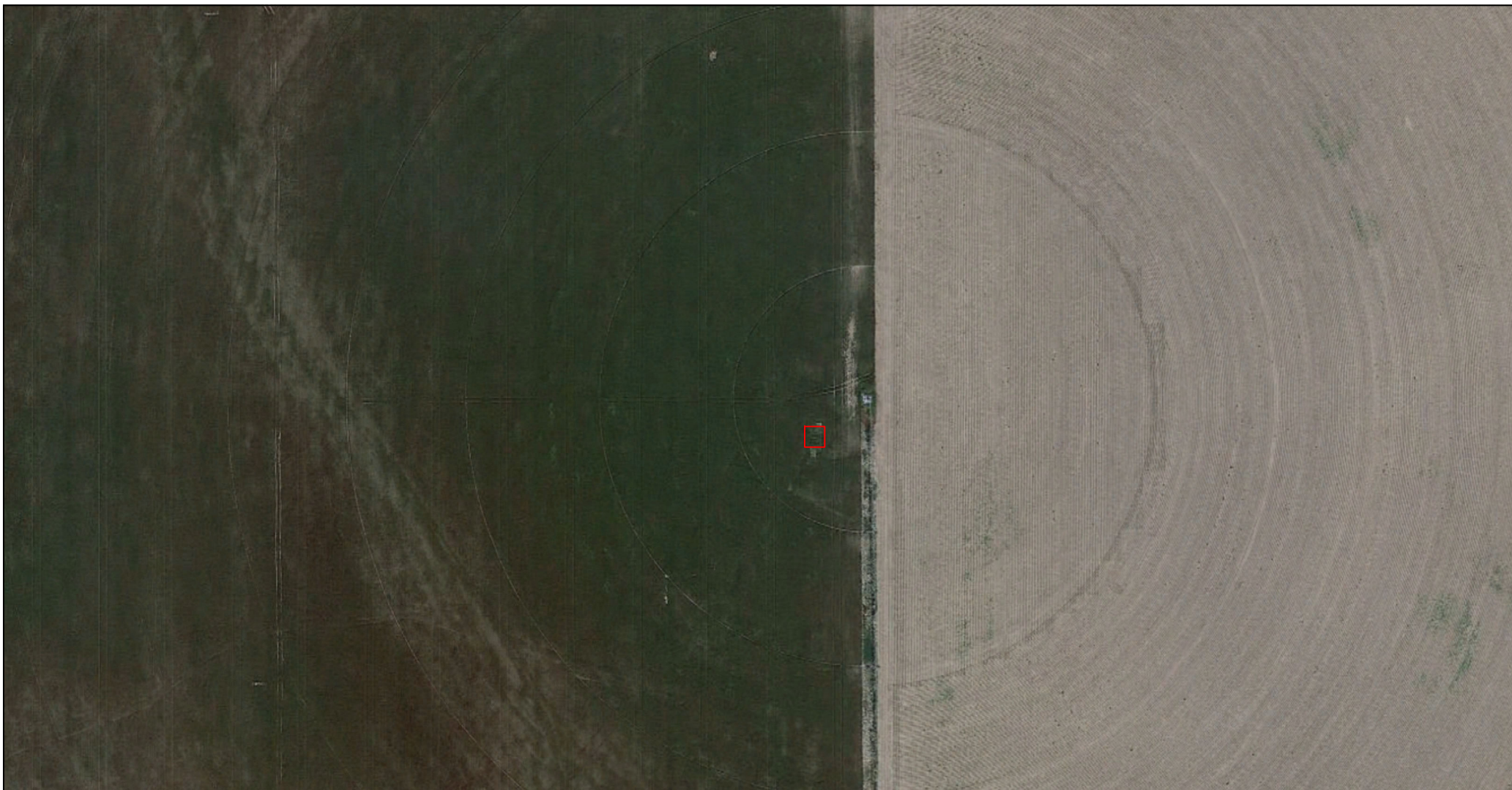


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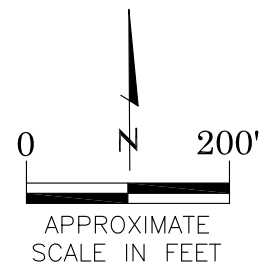
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
KLUG RANCH, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

FORMER FOOS #C 11-25 WELLHEAD (PLUGGED AND ABANDONED)



AERIAL SITE LOCATION MAP

FOOS #C 11-25
CLOSURE ASSESSMENT
40.323300 / -104.522570
SW¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-23389
REMEDATION # 31162

FIGURE NO.

2

DRAWN BY:

SL

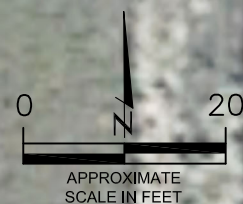
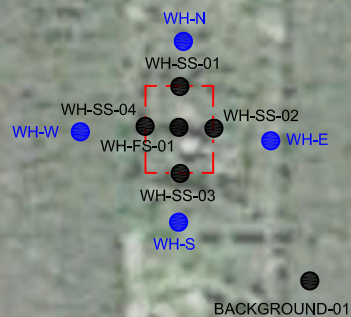


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LEGEND

- 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



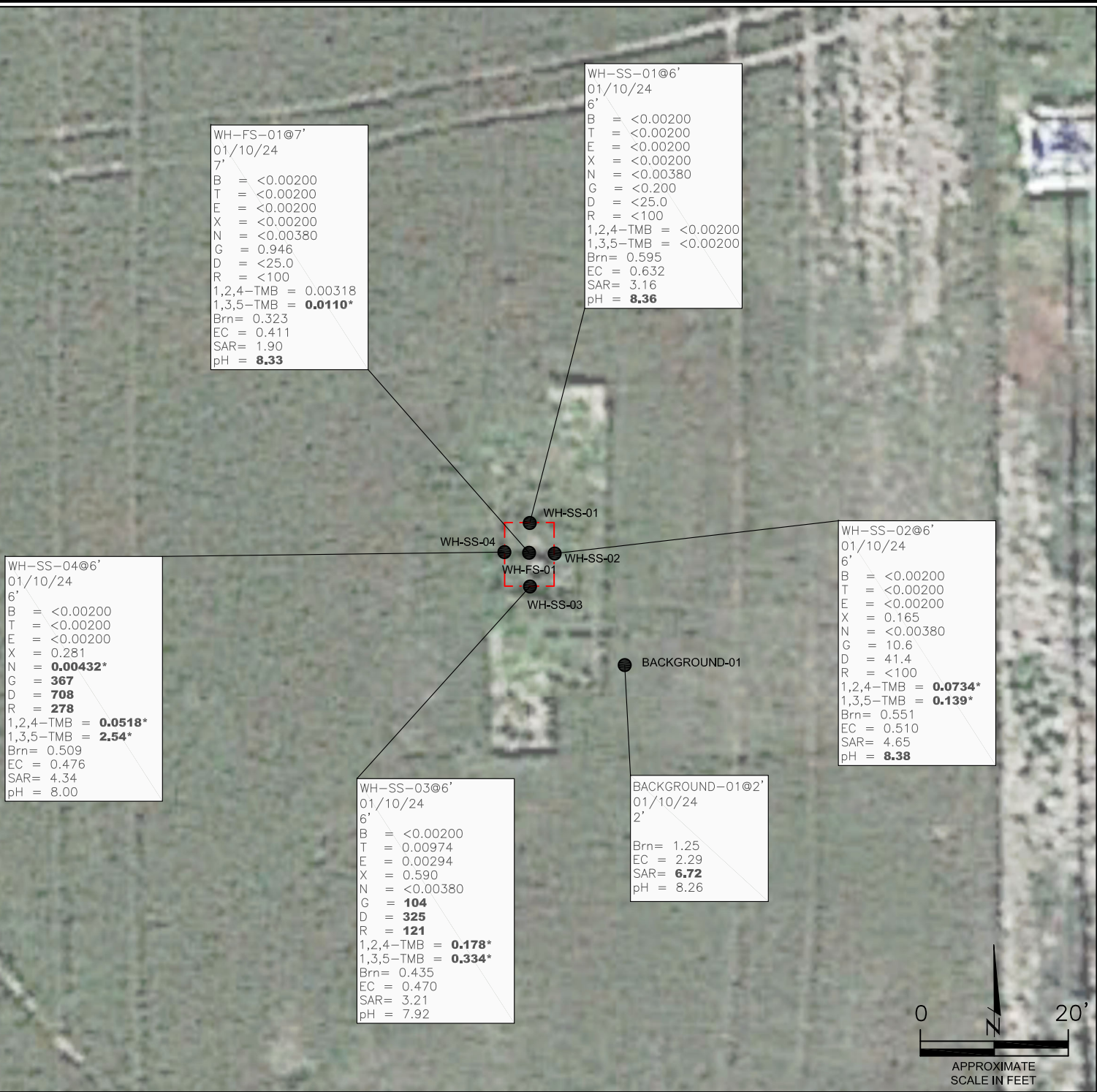
SAMPLE LOCATION MAP
FOOS #C 11-25
CLOSURE ASSESSMENT
40.323300 / -104.522570
SW¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-23389
REMEDATION # 31162

FIGURE NO.
3

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- 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

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 11-25
CLOSURE ASSESSMENT
40.323300 / -104.522570
SW¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-23389
REMEDIAL # 31162

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

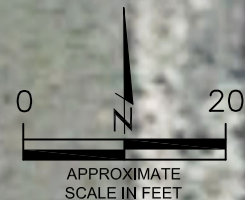
FOOS #C 11-25
CLOSURE ASSESSMENT
40.323300 / -104.522570
SW¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-23389
REMEDIATION # 31162

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.

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

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS AND LOCAL CLEAN-UP LEVELS.

*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.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

METALS IN SOIL MAP

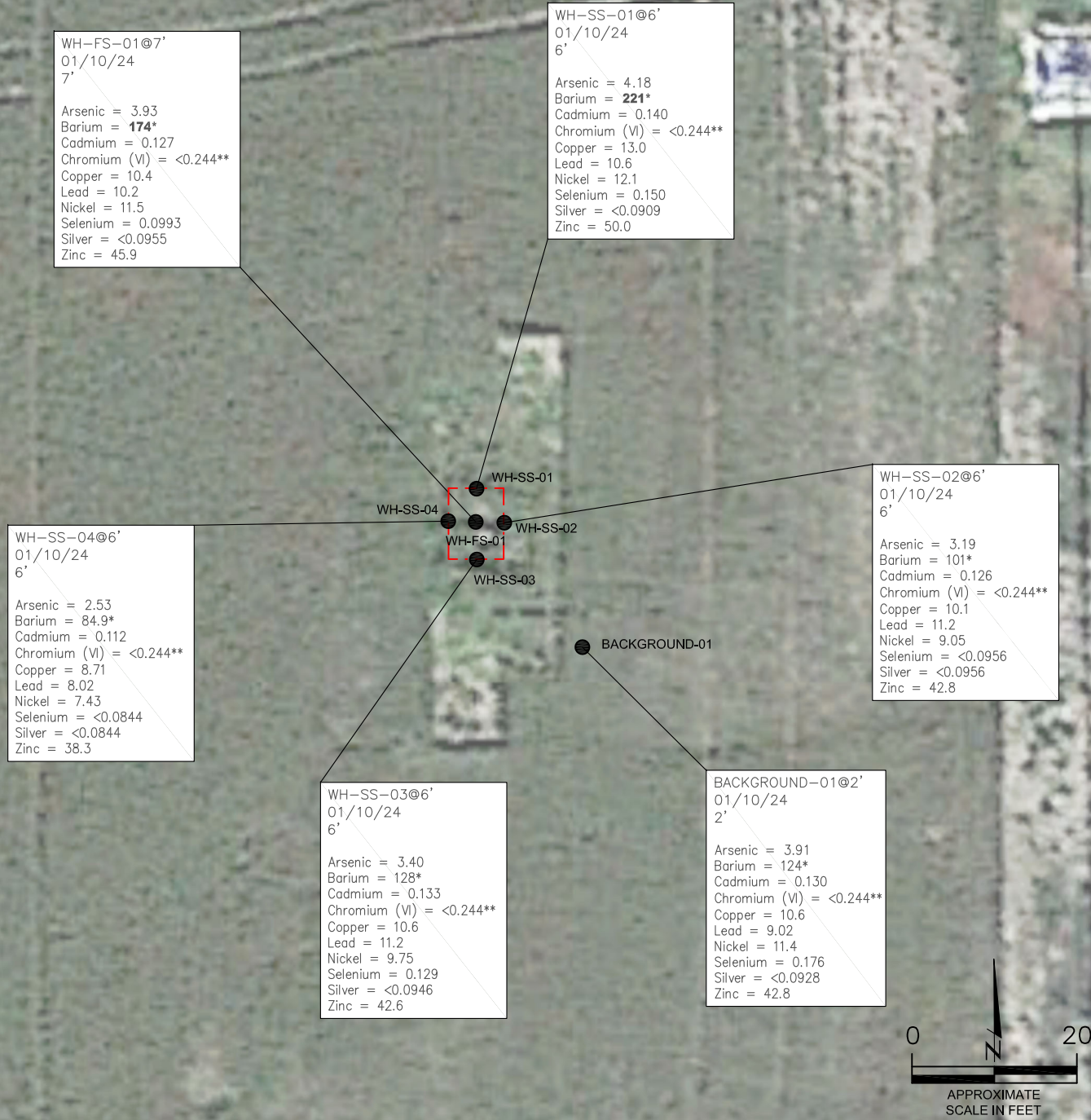
FOOS #C 11-25
CLOSURE ASSESSMENT
40.323300 / -104.522570
SW¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-23389
REMEDIAL # 31162

FIGURE NO.
6

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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATIONFOOS #C 11-25
FOOS #C 11-25
CLOSURE ASSESSMENT
40.323300 / -104.522570
SW¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-23389
REMEDATION # 31162

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 6' (40.323321 / -104.522592)	01/10/24	6	33.4	Y
WH-SS-02 @ 6' (40.323308 / -104.522582)	01/10/24	6	853.2	Y
WH-SS-03 @ 6' (40.323296 / -104.522594)	01/10/24	6	953.4	Y
WH-SS-04 @ 6' (40.323310 / -104.522608)	01/10/24	6	788.5	Y
WH-FS-01 @ 7' (40.323309 / -104.522594)	01/10/24	7	147.1	Y
WH-N @ 0.5' (40.323333 / -104.522593)	01/10/24	0.5	0.8	N
WH-E @ 0.5' (40.323305 / -104.522561)	01/10/24	0.5	0.7	N
WH-S @ 0.5' (40.323284 / -104.522594)	01/10/24	0.5	0.7	N
WH-W @ 0.5' (40.323307 / -104.522627)	01/10/24	0.5	0.9	N
Background-01 @ 2' (40.323267 / -104.522548)	01/10/24	2	1.4	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
FOOS #C 11-25
CLOSURE ASSESSMENT
40.323300 / -104.522570
SW¼ SW¼ SEC.11 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-23389
REMEDATION # 31162

Sample Location (Latitude / Longitude)		WH-SS-01 @ 6'	WH-SS-02 @ 6'	WH-SS-03 @ 6'	WH-SS-04 @ 6'	WH-FS-01 @ 7'	Background-01 @ 2'
		(40.323321 / -104.522592)	(40.323308 / -104.522582)	(40.323296 / -104.522594)	(40.323310 / -104.522608)	(40.323309 / -104.522594)	(40.323267 / -104.522548)
Sample Date		1/10/2024	1/10/2024	1/10/2024	1/10/2024	1/10/2024	1/10/2024
Sample Depth (feet)		6	6	6	6	7	2
PID Reading (ppm-v)		33.4	853.2	953.4	788.5	147.1	1.4
Regulatory Limits							
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level			
VOLATILE ORGANIC COMPOUNDS							
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	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	0.165	<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	0.0734*	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	0.139*	<0.00200
TOTAL PETROLEUM HYDROCARBONS							
TPH-GRO	mg/kg	500	--	--	<20.0	10.6	<20.0
TPH-DRO	mg/kg	500	--	--	<25.0	41.4	<25.0
TPH-RRO	mg/kg	500	--	--	<100	121	<100
POLYCYCLIC AROMATIC HYDROCARBONS							
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	0.031*	<0.002
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	0.009	<0.002
Acenaphthene	mg/kg	360	0.55	--	<0.020	<0.020	<0.020
Anthracene	mg/kg	1800	5.8	--	<0.020	<0.020	<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	0.005	<0.005
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.020	<0.020	<0.020
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.020	<0.020	<0.020
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.020	<0.020	<0.020
Chrysene	mg/kg	110	9	--	<0.020	<0.020	<0.020
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.020	<0.020	<0.020
Fluoranthene	mg/kg	240	8.9	--	<0.020	<0.020	<0.020
Fluorene	mg/kg	240	0.54	--	<0.020	0.038	<0.020
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.020	<0.020	<0.020
Pyrene	mg/kg	180	1.3	--	<0.020	<0.020	<0.020
SOIL SUITABILITY (Inorganics)							
Boron	mg/L	2	--	--	0.595	0.551	0.509
pH	standard unit	6-8.3	--	--	8.36	8.38	8.33
Sodium Adsorption Ratio (SAR)	--	<6	--	--	3.16	4.65	1.90
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.632	0.510	0.476
METALS							
Arsenic	mg/kg	0.68***	0.29***	4.88	4.18	3.19	3.93
Barium	mg/kg	15000	82	155*	221*	101*	174*
Cadmium	mg/kg	71	0.38	--	0.140	0.126	0.127
Copper	mg/kg	3100	46	--	13.0	10.1	10.4
Lead	mg/kg	400	14	--	10.6	11.2	10.2
Nickel	mg/kg	1500	26	--	12.1	9.05	11.5
Selenium	mg/kg	390	0.26	--	0.150	<0.0956	0.0993
Silver	mg/kg	390	0.8	--	<0.0909	<0.0956	<0.0955
Zinc	mg/kg	23000	370	--	50.0	42.8	45.9
Hexavalent Chromium	mg/kg	0.3**	0.00067**	--	<0.244**	<0.244**	<0.244**
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 NA = Not Analyzed Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Elevated metals are naturally occurring in Colorado. Local Clean-up Levels are 1.25*Background concentrations where applicable. Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits and applicable Local Clean-up Levels. 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.							



ATTACHMENT A

Photo Log

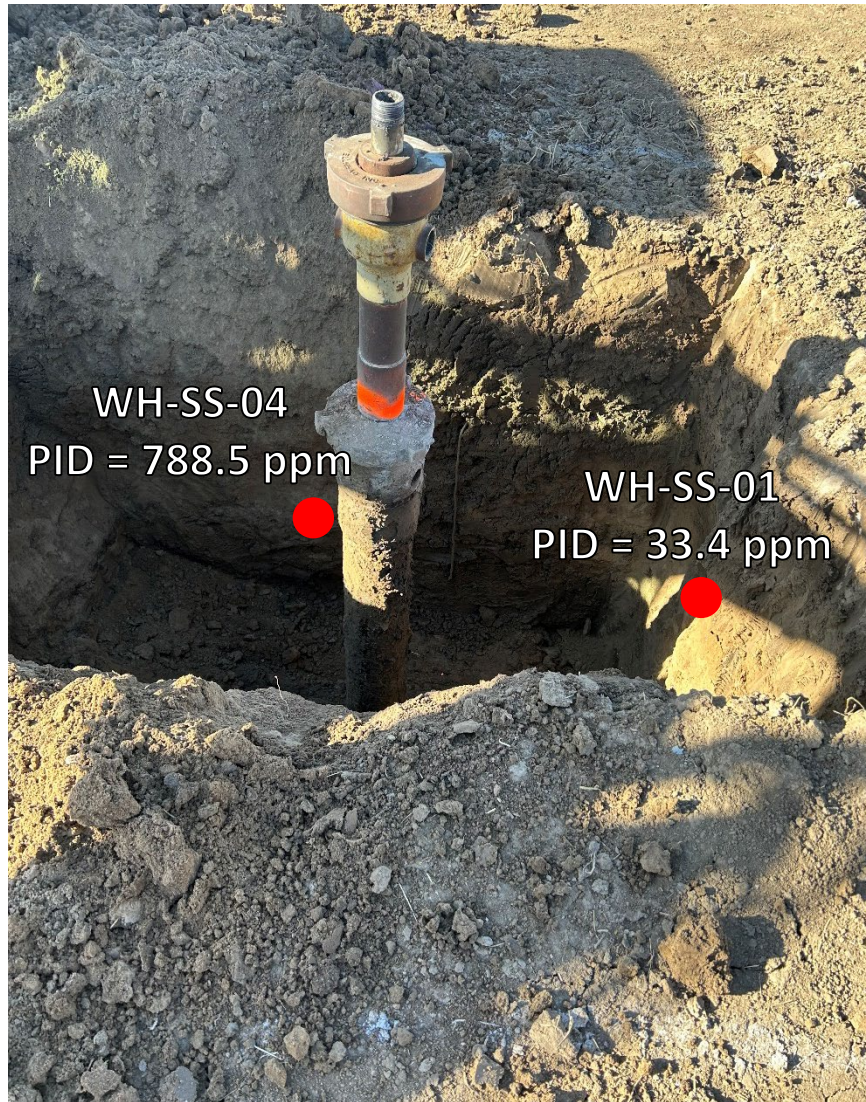
Foos #C 11-25
API # 05-123-23389
Remediation # 31162

Closure Assessment

January 2024

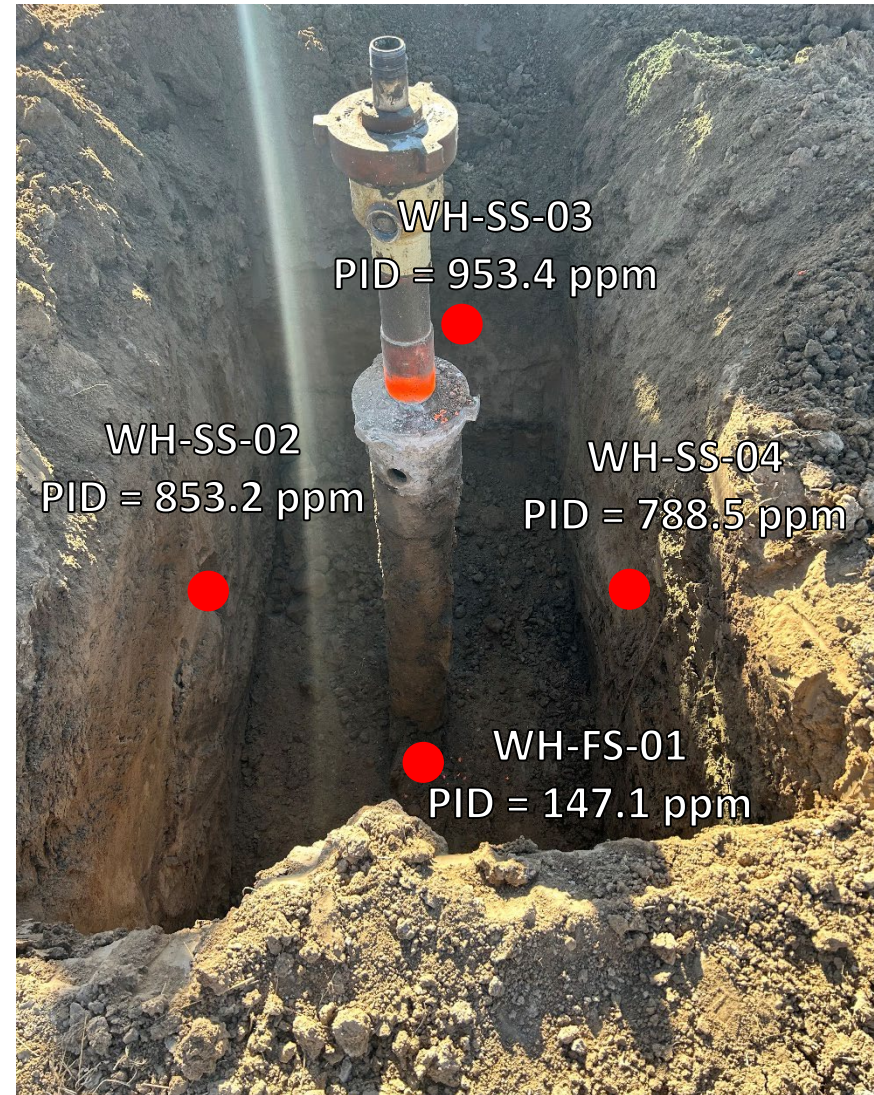


Wellhead Excavation – 01/10/24



Looking west

Strong petroleum hydrocarbon odor observed throughout excavation; no staining observed



Looking south

Strong petroleum hydrocarbon odor observed throughout excavation; no staining observed

Wellhead Surface – 01/10/24



Looking at surface area north of wellhead

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



Looking at surface area east of wellhead

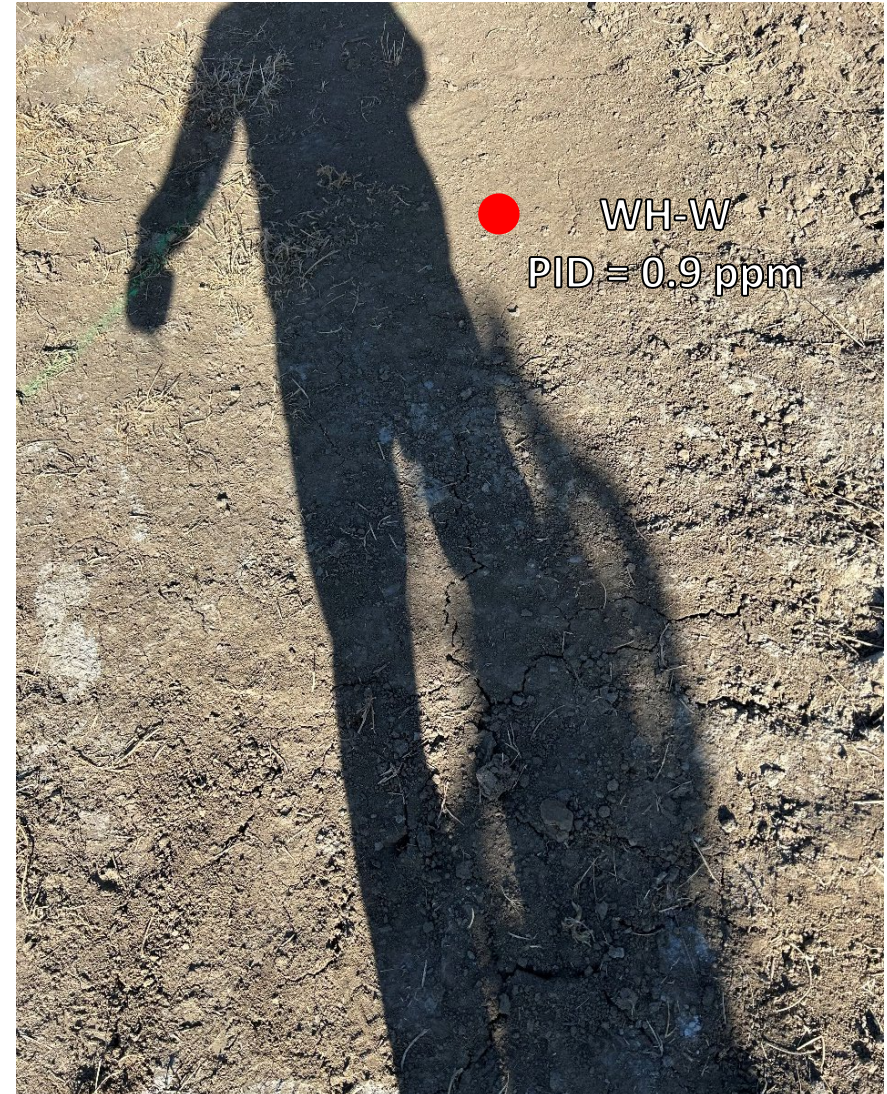
Site in good condition – no petroleum hydrocarbon staining or odor observed on surface around wellhead

Wellhead Surface – 01/10/24



Looking at surface area south of wellhead

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



Looking at surface area west of wellhead

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



ATTACHMENT B

Laboratory Analytical Report



January 29, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Foos C #11-25

Project Number - [none]

Attached are your analytical results for Noble - Foos C #11-25 received by Origins Laboratory, Inc. January 10, 2024. This project is associated with Origins project number Y401243-01.

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 #11-25

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@6'	Y401243-01	Soil	January 10, 2024 11:32	01/10/2024 17:40
WH-SS-02@6'	Y401243-02	Soil	January 10, 2024 11:34	01/10/2024 17:40
WH-SS-03@6'	Y401243-03	Soil	January 10, 2024 11:36	01/10/2024 17:40
WH-SS-04@6'	Y401243-04	Soil	January 10, 2024 11:38	01/10/2024 17:40
WH-FS-01@7'	Y401243-05	Soil	January 10, 2024 11:40	01/10/2024 17:40
Background-01@2'	Y401243-06	Soil	January 10, 2024 11:42	01/10/2024 17:40

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 #11-25

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 440124B

Client: Eagle

Client Project ID: FOOS C #1-25

Checklist Completed by: TSH/CHS

Shipped Via: TUP

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

Date/time completed: 1/11/24

Airbill #: N/A

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1.10 °C

/ °C

/ °C

/ °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 (Project Manager)

Date/Time Reviewed 1/12/24

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 #11-25

WH-SS-01@6'

1/10/2024 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.595	0.0997	mg/L	1	B4A1515	01/15/2024	01/17/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1201	01/12/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.0 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1205	01/12/2024	01/13/2024	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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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 #11-25

WH-SS-01@6'

1/10/2024 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130	B4A1205	01/12/2024	01/13/2024
Surrogate: Toluene-d8	92.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.4 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.54	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.39	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	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 #11-25

WH-SS-01@6'

1/10/2024 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.7 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.36	pH Units	1	B4A1606	01/16/2024	01/16/2024
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SAR by 20B Saturated Paste

SAR	3.16	0.0100	SAR	1	B4A1510	01/15/2024	01/17/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.632	0.00500	mmhos/cm	1	B4A1606	01/16/2024	01/16/2024
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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 #11-25

WH-SS-01@6'

1/10/2024 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.18	0.0909	mg/kg	10	B4A1037	01/10/2024	01/17/2024
Barium	221	9.09	"	"	"	"	"
Cadmium	0.140	0.0909	"	"	"	"	"
Copper	13.0	9.09	"	"	"	"	"
Lead	10.6	0.909	"	"	"	"	"
Nickel	12.1	0.909	"	"	"	"	"
Selenium	0.150	0.0909	"	"	"	"	"
Silver	ND	0.0909	"	"	"	"	"
Zinc	50.0	9.09	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728449	01/10/2024	01/23/2024
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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 #11-25

WH-SS-02@6'

1/10/2024 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.551	0.101	mg/L	1	B4A1515	01/15/2024	01/17/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	41.4	25.0	mg/kg	1	B4A1201	01/12/2024	01/16/2024
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	88.9 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0734	0.00200	mg/kg	1	B4A1205	01/12/2024	01/13/2024
1,3,5-Trimethylbenzene	0.139	0.00200	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	" U
Ethylbenzene	ND	0.00200	"	"	"	"	" U
Naphthalene	ND	0.00380	"	"	"	"	" U
Toluene	ND	0.00200	"	"	"	"	" U
Xylenes, total	0.165	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	10.6	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	120 %	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 #11-25

WH-SS-02@6'

1/10/2024 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	89.2 %	70-130	B4A1205	01/12/2024	01/13/2024
Surrogate: 4-Bromofluorobenzene	87.0 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.973	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.89	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.031	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	
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 #11-25

WH-SS-02@6'

1/10/2024 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y401243-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.38	pH Units	1	B4A1606	01/16/2024	01/16/2024
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SAR by 20B Saturated Paste

SAR	4.65	0.0100	SAR	1	B4A1510	01/15/2024	01/17/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.510	0.00500	mmhos/cm	1	B4A1606	01/16/2024	01/16/2024
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Table 915 metals by EPA 6020B

Arsenic	3.19	0.0956	mg/kg	10	B4A1037	01/10/2024	01/17/2024
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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 #11-25

WH-SS-02@6'

1/10/2024 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-02 (Soil)

Table 915 metals by EPA 6020B

Barium	101	9.56	mg/kg	10	B4A1037	01/10/2024	01/17/2024
Cadmium	0.126	0.0956	"	"	"	"	"
Copper	10.1	9.56	"	"	"	"	"
Lead	11.2	0.956	"	"	"	"	"
Nickel	9.05	0.956	"	"	"	"	"
Selenium	ND	0.0956	"	"	"	"	"
Silver	ND	0.0956	"	"	"	"	"
Zinc	42.8	9.56	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728449	01/10/2024	01/23/2024
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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 #11-25

WH-SS-03@6'

1/10/2024 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.435	0.100	mg/L	1	B4A1515	01/15/2024	01/17/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	325	25.0	mg/kg	1	B4A1201	01/12/2024	01/16/2024
Residual Range Organics (C28-C40)	121	100	"	"	"	"	"

Surrogate: o-Terphenyl	108 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.178	0.00200	mg/kg	1	B4A1205	01/12/2024	01/13/2024
1,3,5-Trimethylbenzene	0.334	0.00200	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	" U
Ethylbenzene	0.00294	0.00200	"	"	"	"	"
Naphthalene	ND	0.00380	"	"	"	"	" U
Toluene	0.00974	0.00200	"	"	"	"	"
Xylenes, total	0.590	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	104	5.00	"	25	"	"	01/13/2024

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	01/13/2024
Surrogate: Toluene-d8	106 %	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 #11-25

WH-SS-03@6'

1/10/2024 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	91.6 %	70-130	B4A12 05	01/12/2024	01/13/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.75	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.64	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.226	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	
2-Methylnaphthalene	0.093	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.005	0.005	"	"	"	"	"	
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	0.038	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 #11-25

WH-SS-03@6'

1/10/2024 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-03 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	93.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	109 %	60-130	"	"	"
Surrogate: Pyrene-d10	111 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	109 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.92	pH Units	1	B4A1606	01/16/2024	01/16/2024
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SAR by 20B Saturated Paste

SAR	3.21	0.0100	SAR	1	B4A1510	01/15/2024	01/17/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.470	0.00500	mmhos/cm	1	B4A1606	01/16/2024	01/16/2024
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Table 915 metals by EPA 6020B

Arsenic	3.40	0.0946	mg/kg	10	B4A1037	01/10/2024	01/17/2024
Barium	128	9.46	"	"	"	"	"

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 #11-25

WH-SS-03@6'

1/10/2024 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-03 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.133		0.0946	mg/kg	10	B4A1037	01/10/2024	01/17/2024	
Copper	10.6		9.46	"	"	"	"	"	
Lead	11.2		0.946	"	"	"	"	"	
Nickel	9.75		0.946	"	"	"	"	"	
Selenium	0.129		0.0946	"	"	"	"	"	
Silver	ND		0.0946	"	"	"	"	"	
Zinc	42.6		9.46	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728449	01/10/2024	01/23/2024	
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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 #11-25

WH-SS-04@6'

1/10/2024 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.509	0.0991	mg/L	1	B4A1515	01/15/2024	01/17/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	708	25.0	mg/kg	1	B4A1201	01/12/2024	01/16/2024
Residual Range Organics (C28-C40)	278	100	"	"	"	"	"

Surrogate: o-Terphenyl	96.0 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0518	0.00200	mg/kg	1	B4A1205	01/12/2024	01/13/2024
1,3,5-Trimethylbenzene	2.54	0.0500	"	25	"	"	01/13/2024
Benzene	ND	0.00200	"	1	"	"	01/13/2024 U
Ethylbenzene	ND	0.00200	"	"	"	"	" U
Naphthalene	0.00432	0.00380	"	"	"	"	"
Toluene	ND	0.00200	"	"	"	"	" U
Xylenes, total	0.281	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	367	5.00	"	25	"	"	01/13/2024

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130	"	"	01/13/2024
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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 #11-25

WH-SS-04@6'

1/10/2024 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	106 %	70-130	B4A1205	01/12/2024	01/13/2024
Surrogate: 4-Bromofluorobenzene	93.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.19	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.00	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.778	0.002	mg/kg	1	B4A1602	01/16/2024	01/18/2024
2-Methylnaphthalene	0.873	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	U
Benzo (a) anthracene	0.007	0.005	"	"	"	"	"
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	0.105	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 #11-25

WH-SS-04@6'

1/10/2024 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-04 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/18/2024	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	128 %	60-130	"	"	"
Surrogate: Pyrene-d10	113 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	112 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.00	pH Units	1	B4A1606	01/16/2024	01/16/2024
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SAR by 20B Saturated Paste

SAR	4.34	0.0100	SAR	1	B4A1510	01/15/2024	01/17/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.476	0.00500	mmhos/cm	1	B4A1606	01/16/2024	01/16/2024
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Table 915 metals by EPA 6020B

Arsenic	2.53	0.0844	mg/kg	10	B4A1037	01/10/2024	01/17/2024
Barium	84.9	8.44	"	"	"	"	"

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 #11-25

WH-SS-04@6'

1/10/2024 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.112		0.0844	mg/kg	10	B4A1037	01/10/2024	01/17/2024
Copper	8.71		8.44	"	"	"	"	"
Lead	8.02		0.844	"	"	"	"	"
Nickel	7.43		0.844	"	"	"	"	"
Selenium	ND		0.0844	"	"	"	"	"
Silver	ND		0.0844	"	"	"	"	"
Zinc	38.3		8.44	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728449	01/10/2024	01/23/2024
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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 #11-25

WH-FS-01@7'

1/10/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.323	0.0990	mg/L	1	B4A1515	01/15/2024	01/17/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1201	01/12/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.7 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00318	0.00200	mg/kg	1	B4A1205	01/12/2024	01/13/2024	
1,3,5-Trimethylbenzene	0.0110	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	0.946	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %	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 #11-25

WH-FS-01@7'

1/10/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.4 %	70-130				B4A12 05	01/12/2024	01/13/2024	
Surrogate: 4-Bromofluorobenzene	90.0 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.50	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	2.00	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.005	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	
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
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 #11-25

WH-FS-01@7'

1/10/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-05 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.33	pH Units	1	B4A1606	01/16/2024	01/16/2024
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SAR by 20B Saturated Paste

SAR	1.90	0.0100	SAR	1	B4A1510	01/15/2024	01/17/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.411	0.00500	mmhos/cm	1	B4A1606	01/16/2024	01/16/2024
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Table 915 metals by EPA 6020B

Arsenic	3.93	0.0955	mg/kg	10	B4A1037	01/10/2024	01/17/2024
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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 #11-25

WH-FS-01@7'

1/10/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-05 (Soil)

Table 915 metals by EPA 6020B

Barium	174	9.55	mg/kg	10	B4A1037	01/10/2024	01/17/2024
Cadmium	0.127	0.0955	"	"	"	"	"
Copper	10.4	9.55	"	"	"	"	"
Lead	10.2	0.955	"	"	"	"	"
Nickel	11.5	0.955	"	"	"	"	"
Selenium	0.0993	0.0955	"	"	"	"	"
Silver	ND	0.0955	"	"	"	"	"
Zinc	45.9	9.55	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728449	01/10/2024	01/23/2024
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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 #11-25

Background-01@2'
1/10/2024 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.25	0.100	mg/L	1	B4A1515	01/15/2024	01/17/2024
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Metals by Saturated Paste by EPA 6010

Calcium	6.58	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	3.56	0.823	"	"	"	"	"
Sodium	15.1	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.26		pH Units	1	B4A1606	01/16/2024	01/16/2024
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SAR by 20B Saturated Paste

SAR	6.72	0.0100	SAR	1	B4A1510	01/15/2024	01/17/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.29	0.00500	mmhos/cm	1	B4A1606	01/16/2024	01/16/2024
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Table 915 metals by EPA 6020B

Arsenic	3.91	0.0928	mg/kg	10	B4A1037	01/10/2024	01/17/2024
Barium	124	9.28	"	"	"	"	"
Cadmium	0.130	0.0928	"	"	"	"	"
Copper	10.6	9.28	"	"	"	"	"

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 #11-25

Background-01@2'
1/10/2024 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401243-06 (Soil)

Table 915 metals by EPA 6020B

Lead	9.02	0.928	mg/kg	10	B4A1037	01/10/2024	01/17/2024
Nickel	11.4	0.928	"	"	"	"	"
Selenium	0.176	0.0928	"	"	"	"	"
Silver	ND	0.0928	"	"	"	"	"
Zinc	42.8	9.28	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728449	01/10/2024	01/23/2024
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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 #11-25

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 B4A1201 - EPA 3550B										
Blank (B4A1201-BLK1)					Prepared: 01/12/2024 Analyzed: 01/16/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.1	50-150			

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-25

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 B4A1201 - EPA 3550B										
LCS (B4A1201-BS1)					Prepared: 01/12/2024 Analyzed: 01/16/2024					
Diesel (C10-C28)	941	50.0	mg/kg	1000		94.1	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.9	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 #11-25

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 B4A1201 - EPA 3550B

Matrix Spike (B4A1201-MS1)		Source: Y401236-01			Prepared: 01/12/2024 Analyzed: 01/16/2024					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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 #11-25

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 B4A1201 - EPA 3550B										
Matrix Spike Dup (B4A1201-MSD1)		Source: Y401236-01			Prepared: 01/12/2024 Analyzed: 01/16/2024					
Diesel (C10-C28)	911	50.0	mg/kg	1000	ND	91.1	70-130	16.2	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	12.2	35	
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-25

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 B4A1205 - EPA 5030 (soil)										
Blank (B4A1205-BLK1)					Prepared: 01/12/2024 Analyzed: 01/12/2024					
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	0.14		"	0.125	110		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	93.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	89.7		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 #11-25

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 B4A1205 - EPA 5030 (soil)										
LCS (B4A1205-BS1)					Prepared: 01/12/2024 Analyzed: 01/12/2024					
1,2,4-Trimethylbenzene	0.0954	0.00200	mg/kg	0.100		95.4	70-130			
1,3,5-Trimethylbenzene	0.0967	0.00200	"	0.100		96.7	70-130			
Benzene	0.113	0.00200	"	0.100		113	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0909	0.00380	"	0.100		90.9	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.0929	0.00200	"	0.100		92.9	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.9	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 #11-25

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 B4A1205 - EPA 5030 (soil)										
Matrix Spike (B4A1205-MS1)		Source: Y401228-01			Prepared: 01/12/2024 Analyzed: 01/12/2024					
1,2,4-Trimethylbenzene	0.0824	0.00200	mg/kg	0.100	ND	82.4	70-130			
1,3,5-Trimethylbenzene	0.0811	0.00200	"	0.100	ND	81.1	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.0845	0.00200	"	0.100	ND	84.5	70-130			
Naphthalene	0.0952	0.00380	"	0.100	ND	95.2	70-130			
Toluene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
o-Xylene	0.0831	0.00200	"	0.100	ND	83.1	70-130			
m,p-Xylene	0.169	0.00400	"	0.200	ND	84.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.6	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 #11-25

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 B4A1205 - EPA 5030 (soil)										
Matrix Spike Dup (B4A1205-MSD1)		Source: Y401228-01			Prepared: 01/12/2024 Analyzed: 01/12/2024					
1,2,4-Trimethylbenzene	0.0504	0.00200	mg/kg	0.100	ND	50.4	70-130	48.2	20	QM-07
1,3,5-Trimethylbenzene	0.0492	0.00200	"	0.100	ND	49.2	70-130	49.0	20	QM-07
Benzene	0.0685	0.00200	"	0.100	ND	68.5	70-130	40.0	20	QM-07
Ethylbenzene	0.0519	0.00200	"	0.100	ND	51.9	70-130	47.9	20	QM-07
Naphthalene	0.0588	0.00380	"	0.100	ND	58.8	70-130	47.3	20	QM-07
Toluene	0.0640	0.00200	"	0.100	ND	64.0	70-130	38.1	20	QM-07
o-Xylene	0.0520	0.00200	"	0.100	ND	52.0	70-130	46.0	20	QM-07
m,p-Xylene	0.107	0.00400	"	0.200	ND	53.4	70-130	45.4	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.0	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 #11-25

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 B4A1037 - EPA 3050B

Blank (B4A1037-BLK1)

Prepared: 01/10/2024 Analyzed: 01/17/2024

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 (B4A1037-BS1)

Prepared: 01/10/2024 Analyzed: 01/17/2024

Arsenic	5.66	0.0100	mg/kg	5.00	113	80-120
Barium	514	1.00	"	500	103	80-120
Cadmium	5.37	0.0100	"	5.00	107	80-120
Copper	56.9	1.00	"	50.0	114	80-120
Lead	5.02	0.100	"	5.00	100	80-120
Nickel	5.38	0.100	"	5.00	108	80-120
Selenium	4.43	0.0100	"	5.00	88.6	80-120
Silver	5.32	0.0100	"	5.00	106	80-120
Zinc	52.3	1.00	"	50.0	105	80-120

Matrix Spike (B4A1037-MS1)

Source: Y401230-02

Prepared: 01/10/2024 Analyzed: 01/17/2024

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-25

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 B4A1037 - EPA 3050B										
Matrix Spike (B4A1037-MS1)		Source: Y401230-02			Prepared: 01/10/2024 Analyzed: 01/17/2024					
Arsenic	11.9	0.0939	mg/kg	4.69	7.57	91.7	75-125			
Barium	673	9.39	"	469	197	101	75-125			
Cadmium	5.51	0.0939	"	4.69	0.369	110	75-125			
Copper	65.9	9.39	"	46.9	19.2	99.7	75-125			
Lead	18.8	0.939	"	4.69	14.3	94.7	75-125			
Nickel	25.1	0.939	"	4.69	22.6	53.3	75-125			QM-07
Selenium	5.14	0.0939	"	4.69	0.605	96.7	75-125			
Silver	5.12	0.0939	"	4.69	0.0762	107	75-125			
Zinc	115	9.39	"	46.9	73.7	88.4	75-125			
Matrix Spike Dup (B4A1037-MSD1)		Source: Y401230-02			Prepared: 01/10/2024 Analyzed: 01/17/2024					
Arsenic	12.1	0.0856	mg/kg	4.28	7.57	107	75-125	2.20	20	
Barium	647	8.56	"	428	197	105	75-125	3.90	20	
Cadmium	5.24	0.0856	"	4.28	0.369	114	75-125	5.01	20	
Copper	61.8	8.56	"	42.8	19.2	99.7	75-125	6.42	20	
Lead	17.9	0.856	"	4.28	14.3	82.2	75-125	5.04	20	
Nickel	24.6	0.856	"	4.28	22.6	47.8	75-125	1.84	20	QM-07
Selenium	5.02	0.0856	"	4.28	0.605	103	75-125	2.37	20	
Silver	4.88	0.0856	"	4.28	0.0762	112	75-125	4.90	20	
Zinc	110	8.56	"	42.8	73.7	85.4	75-125	4.38	20	

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-25

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 B4A1602 - EPA 3580

Blank (B4A1602-BLK1)

Prepared: 01/16/2024 Analyzed: 01/18/2024

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		99.8	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

LCS (B4A1602-BS1)

Prepared: 01/16/2024 Analyzed: 01/17/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200		98.8	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200		95.5	70-130			
Acenaphthene	0.186	0.020	"	0.200		92.9	70-130			
Anthracene	0.194	0.020	"	0.200		97.0	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-25

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 B4A1602 - EPA 3580

LCS (B4A1602-BS1)

Prepared: 01/16/2024 Analyzed: 01/17/2024

Benzo (a) anthracene	0.218	0.005	mg/kg	0.200		109	70-130
Benzo (a) pyrene	0.195	0.020	"	0.200		97.3	70-130
Benzo (b) fluoranthene	0.247	0.020	"	0.200		124	70-130
Benzo (g,h,i) perylene	0.218	0.020	"	0.200		109	70-130
Benzo (k) fluoranthene	0.205	0.020	"	0.200		103	70-130
Chrysene	0.207	0.020	"	0.200		103	70-130
Dibenz (a,h) anthracene	0.208	0.020	"	0.200		104	70-130
Fluoranthene	0.199	0.020	"	0.200		99.6	70-130
Fluorene	0.182	0.020	"	0.200		90.8	70-130
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200		105	70-130
Naphthalene	0.194	0.002	"	0.200		97.0	70-130
Phenanthrene	0.190	0.020	"	0.200		95.0	70-130
Pyrene	0.245	0.020	"	0.200		123	70-130
Surrogate: Fluorene-d10	190		ug/kg	200		96.8	60-130
Surrogate: Anthracene-d10	200		"	200		100	60-130
Surrogate: Pyrene-d10	200		"	200		102	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130

Matrix Spike (B4A1602-MS1)

Source: Y401200-01

Prepared: 01/16/2024 Analyzed: 01/17/2024

1-Methylnaphthalene	0.297	0.002	mg/kg	0.200	0.066	115	70-130
2-Methylnaphthalene	0.366	0.002	"	0.200	0.159	103	70-130
Acenaphthene	0.186	0.020	"	0.200	ND	92.9	70-130
Anthracene	0.209	0.020	"	0.200	0.004	103	70-130
Benzo (a) anthracene	0.208	0.005	"	0.200	0.003	102	70-130
Benzo (a) pyrene	0.227	0.020	"	0.200	0.001	113	70-130
Benzo (b) fluoranthene	0.233	0.020	"	0.200	0.002	116	70-130
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	0.002	102	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 #11-25

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 B4A1602 - EPA 3580

Matrix Spike (B4A1602-MS1)		Source: Y401200-01			Prepared: 01/16/2024 Analyzed: 01/17/2024					
Benzo (k) fluoranthene	0.224	0.020	mg/kg	0.200	0.003	111	70-130			
Chrysene	0.219	0.020	"	0.200	0.0008	109	70-130			
Dibenz (a,h) anthracene	0.241	0.020	"	0.200	ND	120	70-130			
Fluoranthene	0.237	0.020	"	0.200	0.004	117	70-130			
Fluorene	0.201	0.020	"	0.200	0.018	91.5	70-130			
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	0.001	115	70-130			
Naphthalene	0.217	0.002	"	0.200	0.008	105	70-130			
Phenanthrene	0.249	0.020	"	0.200	0.040	105	70-130			
Pyrene	0.257	0.020	"	0.200	0.003	127	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	240		"	200		121	60-130			

Matrix Spike Dup (B4A1602-MSD1)		Source: Y401200-01			Prepared: 01/16/2024 Analyzed: 01/17/2024					
1-Methylnaphthalene	0.264	0.002	mg/kg	0.200	0.066	98.9	70-130	11.8	20	
2-Methylnaphthalene	0.362	0.002	"	0.200	0.159	102	70-130	1.10	20	
Acenaphthene	0.194	0.020	"	0.200	ND	96.9	70-130	4.25	20	
Anthracene	0.200	0.020	"	0.200	0.004	98.1	70-130	4.60	20	
Benzo (a) anthracene	0.204	0.005	"	0.200	0.003	100	70-130	1.79	20	
Benzo (a) pyrene	0.221	0.020	"	0.200	0.001	110	70-130	2.57	20	
Benzo (b) fluoranthene	0.268	0.020	"	0.200	0.002	133	70-130	13.8	20	QM-07
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	0.002	102	70-130	0.238	20	
Benzo (k) fluoranthene	0.259	0.020	"	0.200	0.003	128	70-130	14.6	20	
Chrysene	0.218	0.020	"	0.200	0.0008	109	70-130	0.567	20	
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	ND	113	70-130	6.22	20	
Fluoranthene	0.212	0.020	"	0.200	0.004	104	70-130	11.2	20	

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-25

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 B4A1602 - EPA 3580

Matrix Spike Dup (B4A1602-MSD1)		Source: Y401200-01			Prepared: 01/16/2024 Analyzed: 01/17/2024					
Fluorene	0.194	0.020	mg/kg	0.200	0.018	87.7	70-130	3.77	20	
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	0.001	101	70-130	13.5	20	
Naphthalene	0.208	0.002	"	0.200	0.008	100	70-130	4.08	20	
Phenanthrene	0.240	0.020	"	0.200	0.040	100	70-130	3.74	20	
Pyrene	0.218	0.020	"	0.200	0.003	108	70-130	16.4	20	
Surrogate: Fluorene-d10	180		ug/kg	200		87.8	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	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 #11-25

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 B4A1510 - Saturated Paste Metals

Blank (B4A1510-BLK1)

Prepared: 01/15/2024 Analyzed: 01/17/2024

Calcium PPM	ND	1.00	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	1.00	"

Duplicate (B4A1510-DUP1)

Source: Y401240-02

Prepared: 01/15/2024 Analyzed: 01/17/2024

SAR	ND	0.0100	SAR	5.39			200
Calcium PPM	67.3	10.0	mg/L	88.1		26.7	50
Magnesium PPM	19.8	10.0	"	27.7		33.2	50
Sodium PPM	207	10.0	"	226		9.05	50

Batch B4A1515 - DTPA Sorbitol Preparation

Blank (B4A1515-BLK1)

Prepared: 01/15/2024 Analyzed: 01/17/2024

Boron	ND	0.100	mg/L
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Duplicate (B4A1515-DUP1)

Source: Y401242-02

Prepared: 01/15/2024 Analyzed: 01/17/2024

Boron	0.321	0.101	mg/L	0.417		26.0	50
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Jordan A. Bynon, Project Manager

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-25

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1606 - Saturated Paste pH/EC										
Blank (B4A1606-BLK1)					Prepared: 01/16/2024 Analyzed: 01/16/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A1606-DUP1)					Source: Y401240-02 Prepared: 01/16/2024 Analyzed: 01/16/2024					
pH	8.35		pH Units		8.42			0.835	25	
Specific Conductance (EC)	1.37	0.00500	mmhos/cm		1.74			23.7	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 #11-25

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 L728449 -										
DUP (L 81263-DUP)		Source: 81263			Prepared: Analyzed: 01/23/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 81263-MS)		Source: 81263			Prepared: Analyzed: 01/23/2024					
Chromium, Hexavalent	34.1	2.5	mg/Kg	39.6	< 0.244	86	75-125			
LCS (LCS)					Prepared: Analyzed: 01/23/2024					
Chromium, Hexavalent	6.42	0.5	mg/Kg	8		80	75-125			
LRB (LRB)					Prepared: Analyzed: 01/23/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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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 #11-25

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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Jordan A. Bynon, Project Manager