

Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure	01/09/24		Pit Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: Frico #6-14		Date: 04/01/24						Remediation Project #: 31344		
Associated Wells: 05-123-21522		Age of Site: Years						Number of Photos Attached: 1		
Starting point: (GPS coordinates and descriptions) 40.226858, -104.626611 (At Wellhead)										
End point: (GPS coordinates and descriptions) 40.227789, -104.624437 (At Separator)										
USCS Soil Type: SC					Estimated Depth to Groundwater: Approx. 15-20'					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)										
None 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.										
Flowlines										
Flowline type	O, G, W									
Depth	Approx. 4'									
Age	Years									
Length	Approx. 736'									
Construction Material	Steel									
Were flowlines pulled?	No									
Visual Integrity of lines	Good									
Visual impacts if trenched	None observed.									
PID Readings if trenched	1.8									
Sample taken? Location/Sample ID#	FL-SS-01									
Photo Number(s)	See photolog									
Other observations regarding on location flowlines:										
Flowline was abandoned in place. Pt. B submitted for lab analysis.										
Summary										
Was impacted soil identified?										
<input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards										
Total number of samples field screened: 1					Total number of samples collected: 1					
Highest PID Reading: 1.8					Total number of samples submitted to lab for analysis: 1					
If more than 10 cubic yards of impacted soil were observed:										
Vertical extent:					Estimated spill volume:					
Lateral extent:					Volume of soil removed:					
Is additional investigation required?					N/A					
Was groundwater encountered during the investigation?										
<input checked="" type="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils										
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:					Commencement date of removal:					
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:					
Free product observed? Yes No					Volume of groundwater removed post sampling:					
Total number of samples collected:					Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:										

Wellhead Closure Checklist						
COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form						
Additional attachments (optional): <u> </u>		Pit Closure <u> </u>		Tank Battery Closure <u> </u>		Flowline Closure 04/01/24
Site Name & COGCC Facility Number: Frico #6-14		Date: 01/09/24				Remediation Project #: 31344
Associated Wells: 05-123-21522		Age of Site: Years				Number of Photos Attached: 6
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)					40.226860, -104.626610	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)						
Good condition.						
USCS Soil Type: SC				Estimated Depth to Groundwater: Approx. 15-20'		
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
None 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	05-123-21522					
Age	Years					
Condition of surface around wellhead	Good - Per Crew					
PID Readings	WH-N: 4.3	WH-E: 1.1	WH-S: 5.7	WH-S: 2.3		
Condition of subsurface (staining present)	Good - no staining/no odor					
PID Readings	9.4	11.5	7.7	10.0	6.2	
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01	
Photo Number(s)	See photolog					
Other observations regarding wellheads:						
Well casing cut/capped following assessment.						
Summary						
Was impacted soil identified?						
<input checked="" type="checkbox"/> 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: 11.5				Total number of samples submitted to lab for analysis: 1		
If more than 10 cubic yards of impacted soil were observed:						
Vertical extent:				Estimated spill volume:		
Lateral extent:				Volume of soil removed:		
Is additional investigation required?						
Was groundwater encountered during the investigation?						
<input checked="" type="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils						
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No		
Date Groundwater was encountered:				Commencement date of removal:		
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:		
Free product observed? Yes No				Volume of groundwater removed post sampling:		
Total number of samples collected:				Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:						



FIGURES

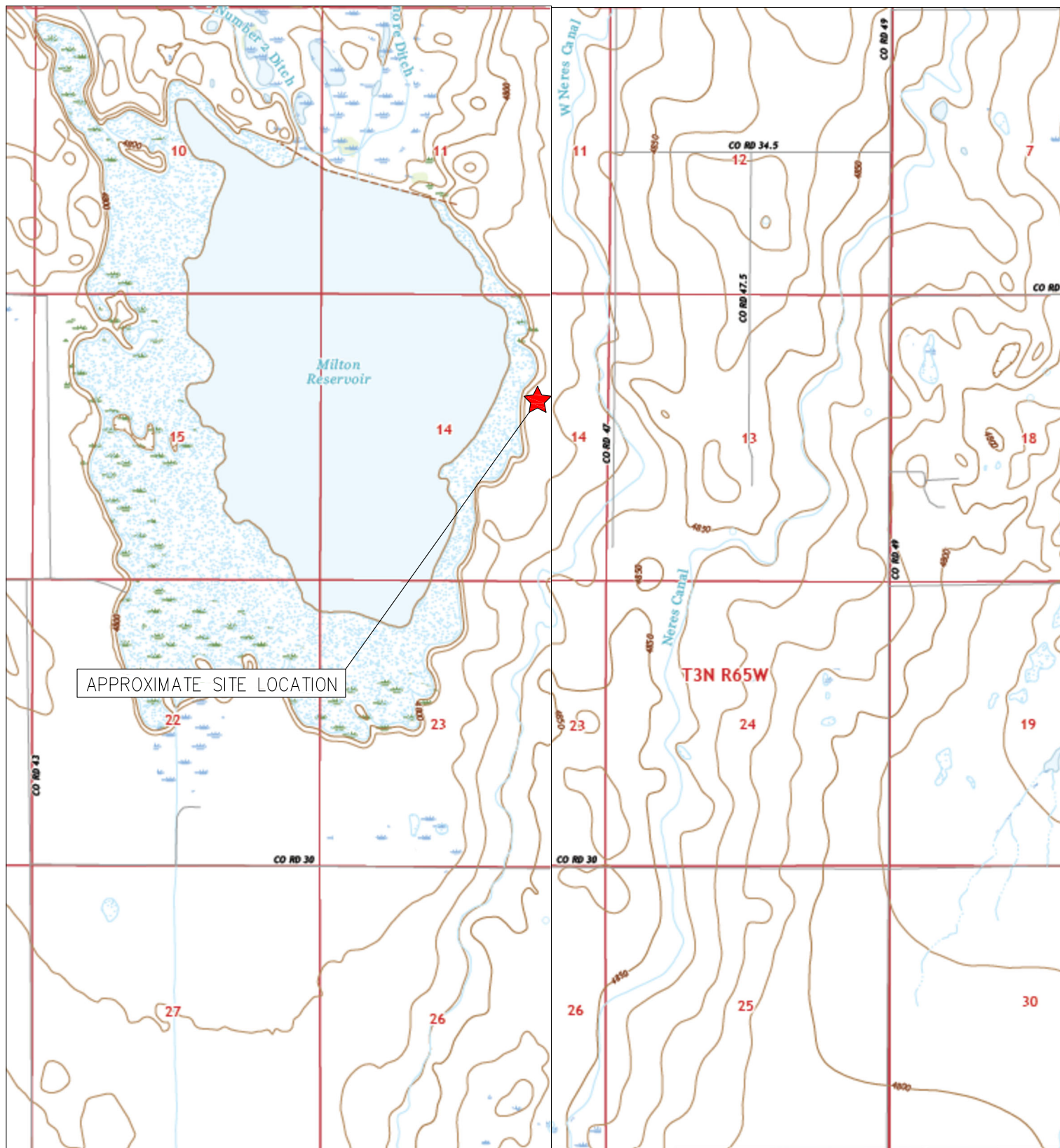
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Sample Location Map

Figure 4: Soil Analytical Map

Figure 5: Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
 FRICO #6-14
 CLOSURE ASSESSMENT
 40.226860 / -104.626610
 SW¼ NE¼ SEC.14 T3N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-21522
 REMEDIATION # 31344

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS,
 KLUG RANCH & MILTON RESERVOIR, CO
 QUADRANGLES 2022

FIGURE NO. 1



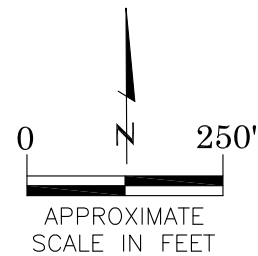
EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



LEGEND

- FORMER FRICO #6-14 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)



AERIAL SITE LOCATION MAP

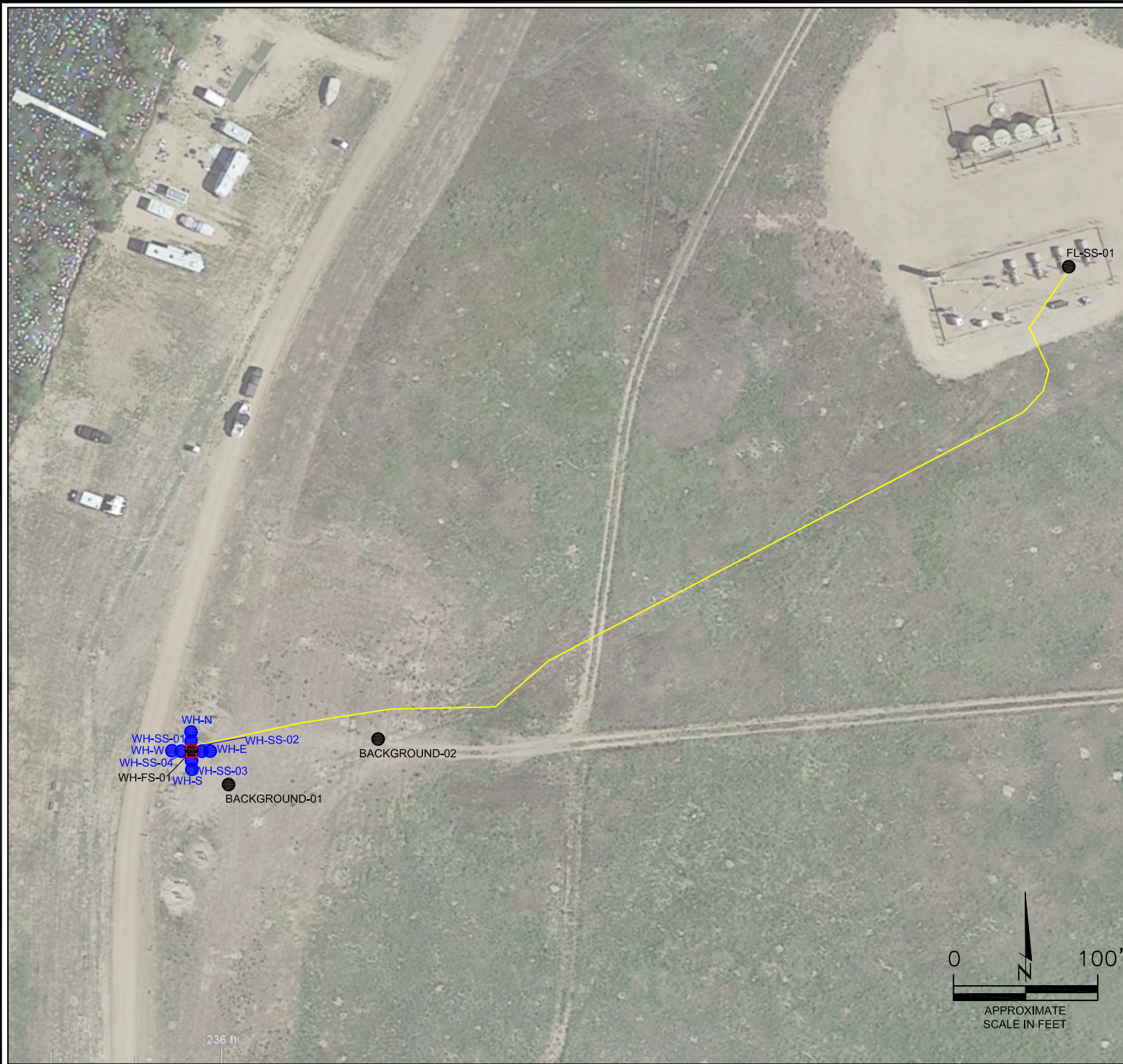
FRICO #6-14
CLOSURE ASSESSMENT
40.226860 / -104.626610
SW¼ NE¼ SEC.14 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-21522
REMEDATION # 31344

FIGURE NO.
2

DRAWN BY:
RS



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LEGEND

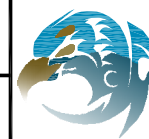
- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE FLOWLINE LOCATION (ABANDONED)

SOIL SAMPLE LOCATION MAP

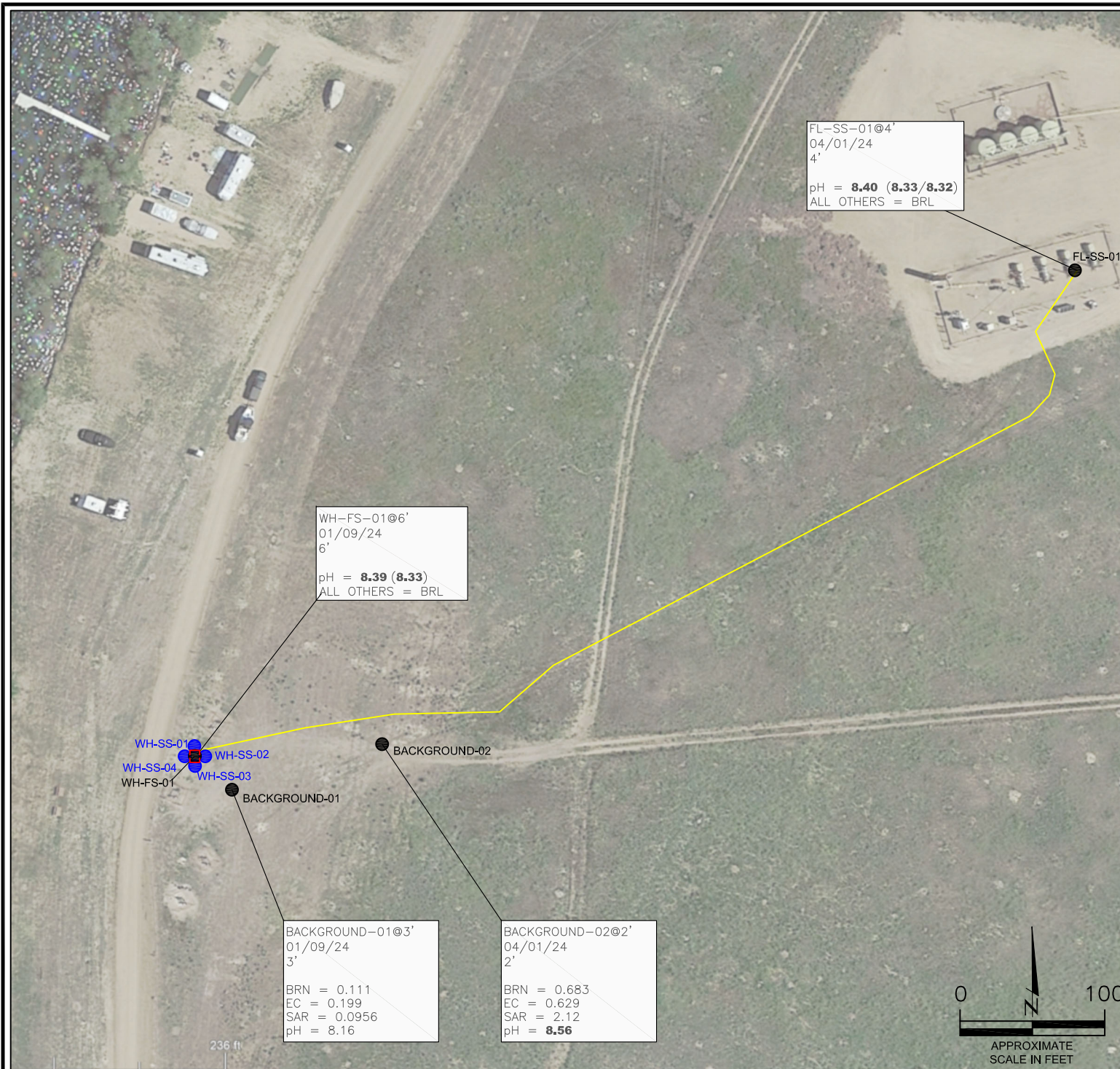
FRICO #6-14
CLOSURE ASSESSMENT
40.226860 / -104.626610
SW¼ NE¼ SEC.14 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-21522
REMEDATION # 31344

FIGURE NO.
3

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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
- APPROXIMATE FLOWLINE LOCATION (ABANDONED)

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)

pH = pH (pH UNITS)

SAR = SODIUM ADSORPTION RATIO

EC = SPECIFIC CONDUCTANCE (mmhos/cm)

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

mg/L = MILLIGRAMS PER LITER

mmhos/cm = MILLIMHOS PER CENTIMETER

BRL = BELOW REGULATORY LIMITS

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:

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP

FRICO #6-14

CLOSURE ASSESSMENT

40.226860 / -104.626610

SW¼ NE¼ SEC.14 T3N R65W 6PM

WELD COUNTY, COLORADO

API # 05-123-21522

REMEDIATION # 31344

FIGURE NO.

4

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LEGEND

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

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 HIGH CONCENTRATIONS WHERE APPLICABLE.

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

FRICO #6-14
CLOSURE ASSESSMENT
40.226860 / -104.626610
SW¼ NE¼ SEC.14 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-21522
REMEDATION # 31344

FIGURE NO.

4

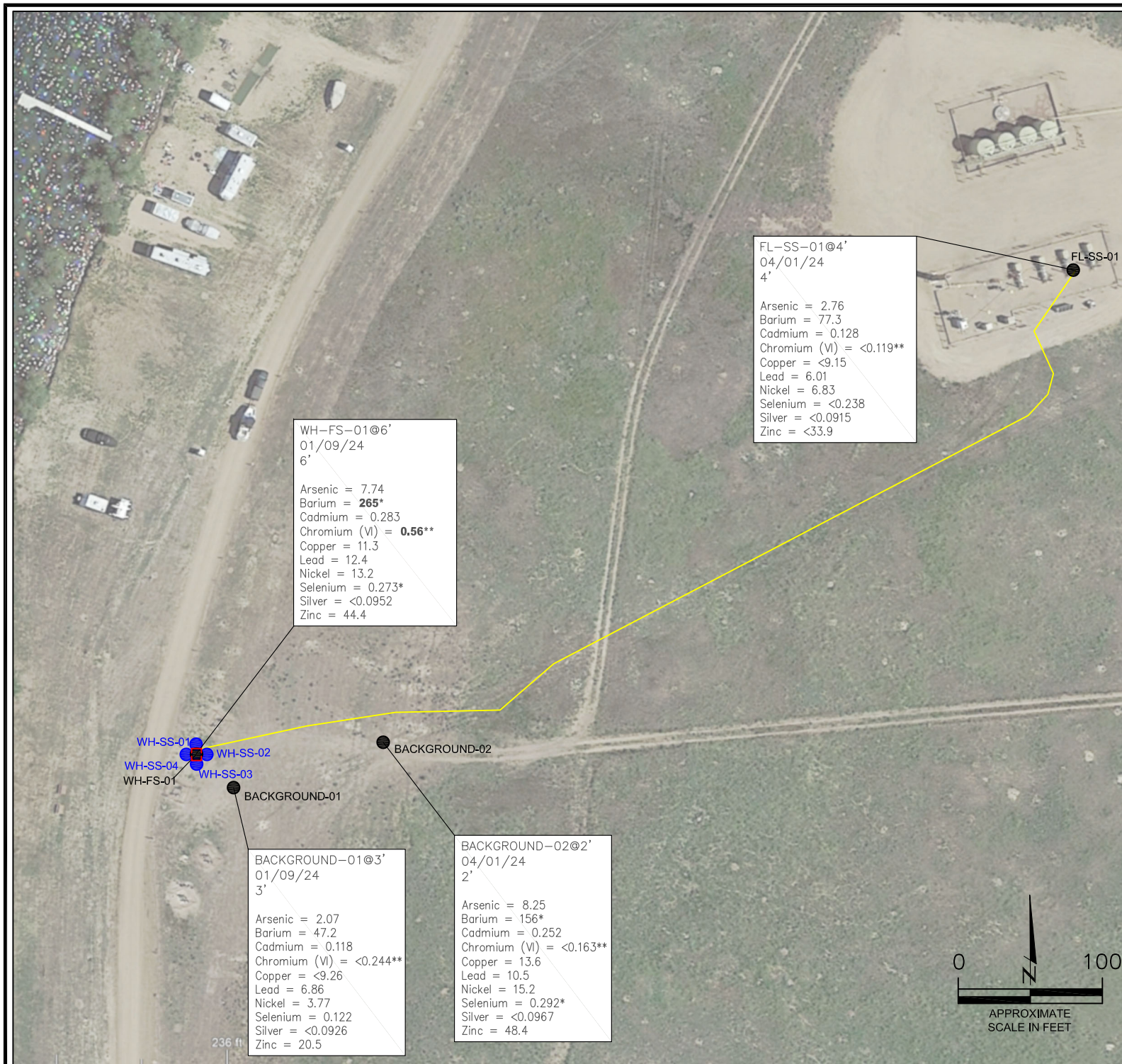
DRAWN BY:

RS



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
FRICO #6-14
CLOSURE ASSESSMENT
40.226860 / -104.626610
SW¼ NE¼ SEC.14 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-21522
REMEDIAL ACTION # 31344

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 6' (40.226871 / -104.626613)	01/09/24	6	6.2	Y
WH-SS-01 @ 5' (40.226887 / -104.626609)	01/09/24	5	9.4	N
WH-SS-02 @ 5' (40.226863 / -104.626596)	01/09/24	5	11.5	N
WH-SS-03 @ 5' (40.226857 / -104.626628)	01/09/24	5	7.7	N
WH-SS-04 @ 5' (40.226878 / -104.626633)	01/09/24	5	10.0	N
WH-N @ 0.5' (40.226900 / -104.626599)	01/09/24	0.5	4.3	N
WH-E @ 0.5' (40.226856 / -104.626579)	01/09/24	0.5	1.1	N
WH-S @ 0.5' (40.226849 / -104.626642)	01/09/24	0.5	5.7	N
WH-W @ 0.5' (40.226891 / -104.626658)	01/09/24	0.5	2.3	N
Background-01 @ 3' (40.226822 / -104.626531)	01/09/24	3	6.5	Y
FL-SS-01 @ 4' (40.227791 / -104.624457)	04/01/24	4	1.8	Y
Background-02 @ 2' (40.226890 / -104.626172)	04/01/24	2	1.2	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
FRICO #6-14
CLOSURE ASSESSMENT
40.226860 / -104.626610
SW¼ NE¼ SEC.14 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-21522
REMEDIATION # 31344

Sample Location (Latitude / Longitude)		WH-FS-01 @ 6'		FL-SS-01 @ 4'		Background-01 @ 3'		Background-02 @ 2'	
Sample Date		1/9/2024		4/1/2024		1/9/2024		4/1/2024	
Sample Depth		6'		4'		3'		2'	
PID Reading (ppm-v)		6.2		1.8		6.5		1.2	
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		NA
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200	NA		NA
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200	NA		NA
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200	NA		NA
Naphthalene	mg/kg	2	0.0038	--	<0.00380	<0.00380	NA		NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200	NA		NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	<0.00200	NA		NA
TOTAL PETROLEUM HYDROCARBONS									
TPH-GRO	mg/kg	500	--	--	<0.200	<0.200	NA		NA
TPH-DRO	mg/kg	500	--	--	<25.0	<25.0	NA		NA
TPH-RRO	mg/kg	500	--	--	<100	<100	NA		NA
POLYCYCLIC AROMATIC HYDROCARBONS									
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	<0.002	NA		NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	<0.002	NA		NA
Acenaphthene	mg/kg	360	0.55	--	<0.020	<0.020	NA		NA
Anthracene	mg/kg	1800	5.8	--	<0.020	<0.020	NA		NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	<0.005	NA		NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.020	<0.020	NA		NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.020	<0.020	NA		NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.020	<0.020	NA		NA
Chrysene	mg/kg	110	9	--	<0.020	<0.020	NA		NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.020	<0.020	NA		NA
Fluoranthene	mg/kg	240	8.9	--	<0.020	<0.020	NA		NA
Fluorene	mg/kg	240	0.54	--	<0.020	<0.020	NA		NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.020	<0.020	NA		NA
Pyrene	mg/kg	180	1.3	--	<0.020	<0.020	NA		NA
SOIL SUITABILITY (Inorganics)									
Boron	mg/L	2	--	--	0.367	<0.101	0.111		0.683
pH	standard unit	6-8.3	--	--	8.39 (8.31)	8.40 (8.33 / 8.32)	8.16		8.56
Sodium Adsorption Ratio (SAR)	--	<6	--	--	1.64	0.0571	0.0956		2.12
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.471	0.225	0.199		0.629
METALS									
Arsenic	mg/kg	0.68	0.29	10.3	7.74	2.76	2.07		8.25
Barium	mg/kg	15000	82	195	265*	77.3	47.2		156
Cadmium	mg/kg	71	0.38	--	0.283	0.128	0.118		0.252
Copper	mg/kg	3100	46	--	11.3	<9.15	<9.26		13.6
Lead	mg/kg	400	14	--	12.4	6.01	6.86		10.5
Nickel	mg/kg	1500	26	--	13.2	6.83	3.77		15.2
Selenium	mg/kg	390	0.26	0.365	0.273*	<0.238	0.122		0.292
Silver	mg/kg	390	0.8	--	<0.0952	<0.0915	<0.0926		<0.0967
Zinc	mg/kg	23000	370	--	44.4	<33.9	20.5		48.4
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	0.56**	<0.119**	<0.244**		<0.163**
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits and applicable clean-up levels. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only. Laboratory reruns were completed on samples with pH values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. Elevated metals are naturally occurring in Colorado. The Local Clean-up Levels are 1.25*Background high concentrations where applicable.									



ATTACHMENT A

Photo Log

Frico #6-14
API # 05-123-21522
Remediation # 31344

Closure Assessment

January - April 2024



Wellhead Excavation – 01/09/24



Looking west

No petroleum hydrocarbon staining or odor observed



Looking south

No petroleum hydrocarbon staining or odor observed

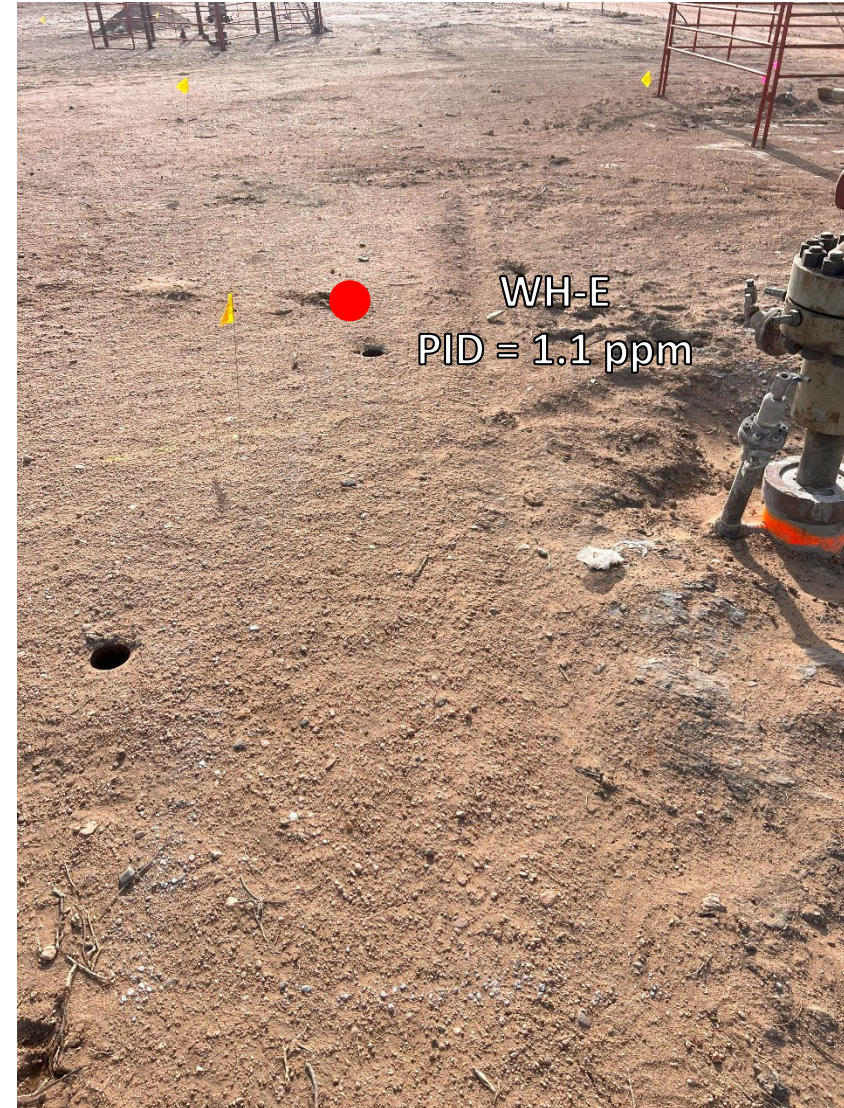
Wellhead Surface – 01/09/24



WH-N
PID = 4.3 ppm

Looking north

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



WH-E
PID = 1.1 ppm

Looking east

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

Wellhead Surface – 01/09/24



WH-S
PID = 5.7 ppm

Looking south

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



WH-W
PID = 2.3 ppm

Looking west

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

Flowline Abandonment Assessment – 04/01/24



Looking north at flowline Pt B/terminus at separator

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



February 21, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Frico #6-14

Project Number - [none]

Attached are your analytical results for Noble - Frico #6-14 received by Origins Laboratory, Inc. January 09, 2024. This project is associated with Origins project number Y401187-01.

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 - Frico #6-14

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y401187-01	Soil	January 9, 2024 13:05	01/09/2024 15:58
Background-01@3'	Y401187-02	Soil	January 9, 2024 12:45	01/09/2024 15:58

Chain of Custody Modification Request

On 1/26/2024, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y401187 requesting that Chrome VI be added to Background-01@3'. Requested modifications to the chain of custody were made by Jordan Bynon on 1/26/2024.

A pH rerun was requested for WH-FS-01@6' per Grace's email on 01/26/2024. No errors were found in the original data, all results are reported. JAB

Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

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4401107

page 1 of 1

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: andrewnewberry@eagleenviro.com

Project Manager: Andrew Newberry
Project Name: Frico #6-14
Project Number:
Samples Collected By: JJA

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Soil	Air Summa		
10W-FS-0106	1/9/24	1305	3	X				X		X	EC 1502/1011
Background-0103	1/9/24	1245	2	X				X		X	Sealed probe prep
											4000s needed
Relinquished By: <i>John W. [Signature]</i>	Date: 1/9/24	Time: 1550						Received By: <i>[Signature]</i>	Date: 1/9/24	Time: 1559	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard
Relinquished By:	Date:	Time:						Received By:	Date:	Time:	

Temp Received: 2 Date Results Needed: Noble

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 - Frico #6-14

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 440197 Client: Eagle
Client Project ID: Frico 6-14

Checklist Completed by: EHS Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 1/19/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 112 °C 1 °C 1 °C (Describe) _____ °C
Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for sub-contracted 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)			<input checked="" type="checkbox"/>	
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) [Signature] Date/Time Reviewed 1/11/24

Origins Laboratory, Inc.

[Signature]

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

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

WH-FS-01@6'

1/9/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401187-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.367	0.0994	mg/L	1	B4A1217	01/12/2024	01/15/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1001	01/10/2024	01/10/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0917	01/09/2024	01/10/2024	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 - Frico #6-14

WH-FS-01@6'

1/9/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401187-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	91.0 %	70-130	B4A09 17	01/09/2024	01/10/2024
Surrogate: Toluene-d8	94.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.45	0.499	meq/L	10	[CALC]	01/13/2024	01/15/2024
Magnesium	1.38	0.823	"	"	"	"	"
Sodium	1.95	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1125	01/11/2024	01/11/2024	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 - Frico #6-14

WH-FS-01@6'

1/9/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401187-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A1125	01/11/2024	01/11/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	108 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.2 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.39	pH Units	1	B4A1307	01/13/2024	01/15/2024
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SAR by 20B Saturated Paste

SAR	1.64	0.0100	SAR	1	B4A1303	01/13/2024	01/15/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.471	0.00500	mmhos/cm	1	B4A1307	01/13/2024	01/15/2024
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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 - Frico #6-14

WH-FS-01@6'

1/9/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401187-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.74	0.0952	mg/kg	10	B4A1021	01/10/2024	01/12/2024
Barium	265	9.52	"	"	"	"	"
Cadmium	0.283	0.0952	"	"	"	"	"
Copper	11.3	9.52	"	"	"	"	"
Lead	12.4	0.952	"	"	"	"	"
Nickel	13.2	0.952	"	"	"	"	"
Selenium	0.273	0.0952	"	"	"	"	"
Silver	ND	0.0952	"	"	"	"	"
Zinc	44.4	9.52	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	0.56	0.244	0.5	mg/Kg	1	L727679	01/09/2024	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 - Frico #6-14

WH-FS-01@6'

1/9/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401187-01RE1 (Soil)

pH in Soil by 9045D

pH	8.31			pH Units	1	B4A3020	01/13/2024	01/31/2024	
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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 - Frico #6-14

WH-FS-01@6'

1/9/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401187-01RE2 (Soil)

pH in Soil by 9045D

pH	8.44			pH Units	1	B4A3020	01/13/2024	01/31/2024	
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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 - Frico #6-14

Background-01@3'
1/9/2024 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401187-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.111	0.100	mg/L	1	B4A1217	01/12/2024	01/15/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.23	0.499	meq/L	10	[CALC]	01/13/2024	01/15/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.16	pH Units	1	B4A1307	01/13/2024	01/15/2024
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SAR by 20B Saturated Paste

SAR	0.0956	0.0100	SAR	1	B4A1303	01/13/2024	01/15/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.199	0.00500	mmhos/cm	1	B4A1307	01/13/2024	01/15/2024
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Table 915 metals by EPA 6020B

Arsenic	2.07	0.0926	mg/kg	10	B4A1021	01/10/2024	01/12/2024
Barium	47.2	9.26	"	"	"	"	"
Cadmium	0.118	0.0926	"	"	"	"	"
Copper	ND	9.26	"	"	"	"	"

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 - Frico #6-14

Background-01@3'
1/9/2024 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401187-02 (Soil)

Table 915 metals by EPA 6020B

Lead	6.86	0.926	mg/kg	10	B4A1021	01/10/2024	01/12/2024
Nickel	3.77	0.926	"	"	"	"	"
Selenium	0.122	0.0926	"	"	"	"	"
Silver	ND	0.0926	"	"	"	"	"
Zinc	20.5	9.26	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730910	01/09/2024	02/05/2024
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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 - Frico #6-14

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 B4A0917 - EPA 5030 (soil)										
Blank (B4A0917-BLK1)					Prepared: 01/09/2024 Analyzed: 01/10/2024					
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		100	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.4	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 - Frico #6-14

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 B4A0917 - EPA 5030 (soil)

LCS (B4A0917-BS1)

Prepared: 01/09/2024 Analyzed: 01/10/2024

1,2,4-Trimethylbenzene	0.0888	0.00200	mg/kg	0.100		88.8	70-130			
1,3,5-Trimethylbenzene	0.0889	0.00200	"	0.100		88.9	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.0966	0.00200	"	0.100		96.6	70-130			
Naphthalene	0.0921	0.00380	"	0.100		92.1	70-130			
Toluene	0.0964	0.00200	"	0.100		96.4	70-130			
o-Xylene	0.0902	0.00200	"	0.100		90.2	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.3	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 - Frico #6-14

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 B4A0917 - EPA 5030 (soil)										
Matrix Spike (B4A0917-MS1)		Source: Y401159-01			Prepared: 01/09/2024 Analyzed: 01/10/2024					
1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100	ND	91.6	70-130			
1,3,5-Trimethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Benzene	0.111	0.00200	"	0.100	ND	111	70-130			
Ethylbenzene	0.0997	0.00200	"	0.100	ND	99.7	70-130			
Naphthalene	0.0945	0.00380	"	0.100	0.00158	92.9	70-130			
Toluene	0.0975	0.00200	"	0.100	ND	97.5	70-130			
o-Xylene	0.0918	0.00200	"	0.100	ND	91.8	70-130			
m,p-Xylene	0.182	0.00400	"	0.200	ND	90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.4	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.3	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 - Frico #6-14

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 B4A0917 - EPA 5030 (soil)										
Matrix Spike Dup (B4A0917-MSD1)			Source: Y401159-01		Prepared: 01/09/2024 Analyzed: 01/10/2024					
1,2,4-Trimethylbenzene	0.0856	0.00200	mg/kg	0.100	ND	85.6	70-130	6.79	20	
1,3,5-Trimethylbenzene	0.0852	0.00200	"	0.100	ND	85.2	70-130	6.03	20	
Benzene	0.106	0.00200	"	0.100	ND	106	70-130	4.47	20	
Ethylbenzene	0.0943	0.00200	"	0.100	ND	94.3	70-130	5.59	20	
Naphthalene	0.0924	0.00380	"	0.100	0.00158	90.8	70-130	2.20	20	
Toluene	0.0943	0.00200	"	0.100	ND	94.3	70-130	3.27	20	
o-Xylene	0.0867	0.00200	"	0.100	ND	86.7	70-130	5.80	20	
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.7	70-130	4.75	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.2	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 - Frico #6-14

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 B4A1001 - EPA 3550B										
Blank (B4A1001-BLK1)					Prepared: 01/10/2024 Analyzed: 01/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		90.8	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 - Frico #6-14

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 B4A1001 - EPA 3550B										
LCS (B4A1001-BS1)					Prepared: 01/10/2024 Analyzed: 01/10/2024					
Diesel (C10-C28)	825	50.0	mg/kg	1000		82.5	70-130			
Residual Range Organics (C28-C40)	943	200	"	1000		94.3	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	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 - Frico #6-14

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
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Batch B4A1001 - EPA 3550B

Matrix Spike (B4A1001-MS1)		Source: Y401159-01			Prepared: 01/10/2024 Analyzed: 01/10/2024					
Diesel (C10-C28)	876	50.0	mg/kg	1000	ND	87.6	70-130			
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.6	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 - Frico #6-14

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 B4A1001 - EPA 3550B										
Matrix Spike Dup (B4A1001-MSD1)		Source: Y401159-01			Prepared: 01/10/2024 Analyzed: 01/10/2024					
Diesel (C10-C28)	846	50.0	mg/kg	1000	ND	84.6	70-130	3.43	35	
Residual Range Organics (C28-C40)	924	200	"	1000	ND	92.4	70-130	4.40	35	
Surrogate: o-Terphenyl	42		"	49.8		83.7	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 - Frico #6-14

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
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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 B4A1021 - EPA 3050B

Blank (B4A1021-BLK1)

Prepared: 01/10/2024 Analyzed: 01/12/2024

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

LCS (B4A1021-BS1)

Prepared: 01/10/2024 Analyzed: 01/12/2024

Arsenic	5.51	0.0100	mg/kg	5.00	110	80-120
Barium	508	1.00	"	500	102	80-120
Cadmium	5.28	0.0100	"	5.00	106	80-120
Copper	54.9	1.00	"	50.0	110	80-120
Lead	5.14	0.100	"	5.00	103	80-120
Nickel	5.46	0.100	"	5.00	109	80-120
Selenium	4.44	0.0100	"	5.00	88.9	80-120
Silver	5.70	0.0100	"	5.00	114	80-120
Zinc	55.4	1.00	"	50.0	111	80-120

Matrix Spike (B4A1021-MS1)

Source: Y401185-01

Prepared: 01/10/2024 Analyzed: 01/12/2024

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

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 B4A1021 - EPA 3050B										
Matrix Spike (B4A1021-MS1)			Source: Y401185-01		Prepared: 01/10/2024 Analyzed: 01/12/2024					
Arsenic	6.84	0.0979	mg/kg	4.90	1.66	106	75-125			
Barium	566	9.79	"	490	42.8	107	75-125			
Cadmium	5.56	0.0979	"	4.90	0.0542	112	75-125			
Copper	58.7	9.79	"	49.0	2.87	114	75-125			
Lead	10.7	0.979	"	4.90	5.62	104	75-125			QM-07
Nickel	8.34	0.979	"	4.90	3.12	107	75-125			QM-07
Selenium	5.13	0.0979	"	4.90	ND	105	75-125			
Silver	5.87	0.0979	"	4.90	0.0165	119	75-125			
Zinc	74.0	9.79	"	49.0	18.9	113	75-125			
Matrix Spike Dup (B4A1021-MSD1)			Source: Y401185-01		Prepared: 01/10/2024 Analyzed: 01/12/2024					
Arsenic	7.21	0.0882	mg/kg	4.41	1.66	126	75-125	5.29	20	QM-07
Barium	579	8.82	"	441	42.8	122	75-125	2.41	20	
Cadmium	5.62	0.0882	"	4.41	0.0542	126	75-125	1.03	20	QM-07
Copper	57.0	8.82	"	44.1	2.87	123	75-125	2.90	20	
Lead	12.3	0.882	"	4.41	5.62	152	75-125	14.3	20	QM-07
Nickel	9.11	0.882	"	4.41	3.12	136	75-125	8.79	20	QM-07
Selenium	4.75	0.0882	"	4.41	ND	108	75-125	7.70	20	
Silver	5.87	0.0882	"	4.41	0.0165	133	75-125	0.0451	20	QM-07, QM-13
Zinc	77.0	8.82	"	44.1	18.9	132	75-125	3.90	20	QM-07

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 - Frico #6-14

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 B4A1125 - EPA 3580

Blank (B4A1125-BLK1)

Prepared: 01/11/2024 Analyzed: 01/11/2024

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		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.9	60-130			

LCS (B4A1125-BS1)

Prepared: 01/11/2024 Analyzed: 01/11/2024

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200		98.2	70-130			
2-Methylnaphthalene	0.206	0.002	"	0.200		103	70-130			
Acenaphthene	0.205	0.020	"	0.200		103	70-130			
Anthracene	0.177	0.020	"	0.200		88.7	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 - Frico #6-14

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 B4A1125 - EPA 3580

LCS (B4A1125-BS1)

Prepared: 01/11/2024 Analyzed: 01/11/2024

Benzo (a) anthracene	0.192	0.005	mg/kg	0.200		95.9	70-130
Benzo (a) pyrene	0.206	0.020	"	0.200		103	70-130
Benzo (b) fluoranthene	0.203	0.020	"	0.200		102	70-130
Benzo (g,h,i) perylene	0.194	0.020	"	0.200		97.2	70-130
Benzo (k) fluoranthene	0.194	0.020	"	0.200		97.2	70-130
Chrysene	0.204	0.020	"	0.200		102	70-130
Dibenz (a,h) anthracene	0.201	0.020	"	0.200		101	70-130
Fluoranthene	0.190	0.020	"	0.200		94.9	70-130
Fluorene	0.198	0.020	"	0.200		98.8	70-130
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200		93.4	70-130
Naphthalene	0.205	0.002	"	0.200		102	70-130
Phenanthrene	0.202	0.020	"	0.200		101	70-130
Pyrene	0.200	0.020	"	0.200		99.9	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130
Surrogate: Anthracene-d10	180		"	200		90.5	60-130
Surrogate: Pyrene-d10	180		"	200		91.0	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130

Matrix Spike (B4A1125-MS1)

Source: Y401185-01

Prepared: 01/11/2024 Analyzed: 01/11/2024

1-Methylnaphthalene	0.222	0.002	mg/kg	0.200	0.002	110	70-130
2-Methylnaphthalene	0.229	0.002	"	0.200	0.0009	114	70-130
Acenaphthene	0.212	0.020	"	0.200	0.001	105	70-130
Anthracene	0.215	0.020	"	0.200	ND	108	70-130
Benzo (a) anthracene	0.203	0.005	"	0.200	0.0009	101	70-130
Benzo (a) pyrene	0.212	0.020	"	0.200	ND	106	70-130
Benzo (b) fluoranthene	0.240	0.020	"	0.200	0.0005	120	70-130
Benzo (g,h,i) perylene	0.212	0.020	"	0.200	0.0007	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 - Frico #6-14

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 B4A1125 - EPA 3580

Matrix Spike (B4A1125-MS1)		Source: Y401185-01			Prepared: 01/11/2024 Analyzed: 01/11/2024					
Benzo (k) fluoranthene	0.210	0.020	mg/kg	0.200	0.0007	105	70-130			
Chrysene	0.220	0.020	"	0.200	0.0007	110	70-130			
Dibenz (a,h) anthracene	0.213	0.020	"	0.200	ND	106	70-130			
Fluoranthene	0.205	0.020	"	0.200	0.0006	102	70-130			
Fluorene	0.210	0.020	"	0.200	0.002	104	70-130			
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200	ND	104	70-130			
Naphthalene	0.209	0.002	"	0.200	ND	105	70-130			
Phenanthrene	0.210	0.020	"	0.200	0.002	104	70-130			
Pyrene	0.217	0.020	"	0.200	ND	108	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

Matrix Spike Dup (B4A1125-MSD1)		Source: Y401185-01			Prepared: 01/11/2024 Analyzed: 01/11/2024					
1-Methylnaphthalene	0.227	0.002	mg/kg	0.200	0.002	113	70-130	2.41	20	
2-Methylnaphthalene	0.227	0.002	"	0.200	0.0009	113	70-130	0.894	20	
Acenaphthene	0.198	0.020	"	0.200	0.001	98.3	70-130	6.96	20	
Anthracene	0.213	0.020	"	0.200	ND	106	70-130	1.21	20	
Benzo (a) anthracene	0.197	0.005	"	0.200	0.0009	98.0	70-130	2.94	20	
Benzo (a) pyrene	0.215	0.020	"	0.200	ND	108	70-130	1.83	20	
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.0005	105	70-130	13.4	20	
Benzo (g,h,i) perylene	0.179	0.020	"	0.200	0.0007	89.4	70-130	16.8	20	
Benzo (k) fluoranthene	0.194	0.020	"	0.200	0.0007	96.4	70-130	8.23	20	
Chrysene	0.225	0.020	"	0.200	0.0007	112	70-130	2.25	20	
Dibenz (a,h) anthracene	0.227	0.020	"	0.200	ND	113	70-130	6.33	20	
Fluoranthene	0.215	0.020	"	0.200	0.0006	107	70-130	4.64	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 - Frico #6-14

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
Batch B4A1125 - EPA 3580										
Matrix Spike Dup (B4A1125-MSD1)			Source: Y401185-01		Prepared: 01/11/2024 Analyzed: 01/11/2024					
Fluorene	0.213	0.020	mg/kg	0.200	0.002	106	70-130	1.42	20	
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200	ND	109	70-130	4.49	20	
Naphthalene	0.205	0.002	"	0.200	ND	102	70-130	2.23	20	
Phenanthrene	0.218	0.020	"	0.200	0.002	108	70-130	3.49	20	
Pyrene	0.213	0.020	"	0.200	ND	107	70-130	1.56	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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 - Frico #6-14

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1217 - DTPA Sorbitol Preparation										
Blank (B4A1217-BLK1)					Prepared: 01/12/2024 Analyzed: 01/15/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4A1217-DUP1)					Source: Y401185-01 Prepared: 01/12/2024 Analyzed: 01/15/2024					
Boron	0.0508	0.101	mg/L		0.0513			0.872	50	
Batch B4A1303 - Saturated Paste Metals										
Blank (B4A1303-BLK1)					Prepared: 01/13/2024 Analyzed: 01/15/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	1.00	mg/L							
Magnesium PPM	ND	1.00	"							
Sodium PPM	ND	1.00	"							
Duplicate (B4A1303-DUP1)					Source: Y401185-01 Prepared: 01/13/2024 Analyzed: 01/15/2024					
Calcium PPM	20.0	10.0	mg/L		18.6			7.51	50	
SAR	ND	0.0100	SAR		ND				200	
Magnesium PPM	3.95	10.0	mg/L		3.48			12.7	50	
Sodium PPM	12.3	10.0	"		12.5			1.13	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 - Frico #6-14

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1307 - Saturated Paste pH/EC										
Blank (B4A1307-BLK1)					Prepared: 01/13/2024 Analyzed: 01/15/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A1307-DUP1)					Source: Y401185-01 Prepared: 01/13/2024 Analyzed: 01/15/2024					
Specific Conductance (EC)	0.368	0.00500	mmhos/cm		0.357			2.90	25	
pH	8.22		pH Units		8.10			1.47	25	
Batch B4A3020 - Saturated Paste pH/EC										
Duplicate (B4A3020-DUP1)					Source: Y401695-01 Prepared: 01/30/2024 Analyzed: 01/31/2024					
pH	8.41		pH Units		8.42			0.119	25	

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 - Frico #6-14

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 L727679 -										
DUP (L 99397-DUP)		Source: 99397			Prepared: Analyzed: 01/13/2024					
Chromium, Hexavalent	ND	0.503	mg/Kg		<0.503		-	0.5	20	
MS (L 99397-MS)		Source: 99397			Prepared: Analyzed: 01/13/2024					
Chromium, Hexavalent	32.9	2.51	mg/Kg	40.1	<1.22	82	75-125			
Batch L730910 -										
DUP (L 92058-DUP)		Source: 92058			Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 92058-MS)		Source: 92058			Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	32.1	2.5	mg/Kg	39	< 0.244	82	75-125			
LCS (LCS)					Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	6.13	0.5	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

Notes and Definitions

U Sample is Non-Detect.

QM-13 Spike recovery is outside acceptance limits for LCS, however the control limits for the LCS are more restrictive than our second source verification limits.

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.



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.



May 14, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Frico #6-14

Project Number - [none]

Attached are your analytical results for Noble - Frico #6-14 received by Origins Laboratory, Inc. April 01, 2024. This project is associated with Origins project number Y404042-01.

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 - Frico #6-14

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@2'	Y404042-01	Soil	April 1, 2024 11:25	04/01/2024 15:39
FL-SS-01@4'	Y404042-02	Soil	April 1, 2024 13:40	04/01/2024 15:39

A pH rerun was requested for FL-SS_01@4' per Grace's email on 04/16/2024. No errors were found in the original data, all results are reported. JAB

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y404042

Client: Eagle

Client Project ID: FW #6-14

Checklist Completed by: BN/SA

Shipped Via: TD

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

Date/time completed: 4/10/2014

Airbill #: N/A

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

Cooler Number/Temperature: 113 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 7004

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

Date/Time Reviewed 4/13/24

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 - Frico #6-14

Background-02@2'
4/1/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404042-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.683	0.0998	mg/L	1	B4D0513	04/05/2024	04/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.80	0.499	meq/L	10	[CALC]	04/03/2024	04/04/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.36	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.56		pH Units	1	B4D0315	04/03/2024	04/04/2024
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SAR by 20B Saturated Paste

SAR	2.12	0.0100	SAR	1	B4D0305	04/03/2024	04/04/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.629	0.00500	mmhos/cm	1	B4D0315	04/03/2024	04/04/2024
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Table 915 metals by EPA 6020B

Arsenic	8.25	0.280	mg/kg	10	B4D0229	04/02/2024	04/04/2024
Barium	156	9.67	"	"	"	"	"
Cadmium	0.252	0.0967	"	"	"	"	"
Copper	13.6	9.67	"	"	"	"	"

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 - Frico #6-14

Background-02@2'
4/1/2024 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404042-01 (Soil)

Table 915 metals by EPA 6020B

Lead	10.5	0.967	mg/kg	10	B4D0229	04/02/2024	04/04/2024
Nickel	15.2	0.967	"	"	"	"	"
Selenium	0.292	0.251	"	"	"	"	"
Silver	ND	0.0967	"	"	"	"	"
Zinc	48.4	35.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.163	0.408	mg/kg dry	1	2592346	04/04/2024	04/08/2024	U
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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 - Frico #6-14

FL-SS-01@4'

4/1/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404042-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4D0514	04/05/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4D0221	04/02/2024	04/09/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	105 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D0454	04/04/2024	04/07/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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 - Frico #6-14

FL-SS-01@4'

4/1/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404042-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	B4D04 54	04/04/2024	04/07/2024
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.22	0.499	meq/L	10	[CALC]	04/03/2024	04/04/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D0532	04/05/2024	04/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua

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 - Frico #6-14

FL-SS-01@4'

4/1/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404042-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4D0532	04/05/2024	04/09/2024	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	90.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.5 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.40	pH Units	1	B4D0315	04/03/2024	04/04/2024
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SAR by 20B Saturated Paste

SAR	0.0571	0.0100	SAR	1	B4D0305	04/03/2024	04/04/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.225	0.00500	mmhos/cm	1	B4D0315	04/03/2024	04/04/2024
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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 - Frico #6-14

FL-SS-01@4'

4/1/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404042-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.76	0.265	mg/kg	10	B4D0229	04/02/2024	04/04/2024
Barium	77.3	9.15	"	"	"	"	"
Cadmium	0.128	0.0915	"	"	"	"	"
Copper	ND	9.15	"	"	"	"	"
Lead	6.01	0.915	"	"	"	"	"
Nickel	6.83	0.915	"	"	"	"	"
Selenium	ND	0.238	"	"	"	"	"
Silver	ND	0.0915	"	"	"	"	"
Zinc	ND	33.9	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.119	0.296	mg/kg dry	1	2592346	04/04/2024	04/08/2024	U
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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 - Frico #6-14

FL-SS-01@4'

4/1/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404042-02RE1 (Soil)

pH in Soil by 9045D

pH	8.33		pH Units	1	B4D1710	04/03/2024	04/18/2024
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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 - Frico #6-14

FL-SS-01@4'

4/1/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404042-02RE2 (Soil)

pH in Soil by 9045D

pH	8.32			pH Units	1	B4D1710	04/03/2024	04/18/2024	
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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 - Frico #6-14

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 B4D0221 - EPA 3550B										
Blank (B4D0221-BLK1)					Prepared: 04/02/2024 Analyzed: 04/09/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	27		"	24.9		108	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 - Frico #6-14

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 B4D0221 - EPA 3550B										
LCS (B4D0221-BS1)					Prepared: 04/02/2024 Analyzed: 04/09/2024					
Diesel (C10-C28)	922	50.0	mg/kg	1000		92.2	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
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 - Frico #6-14

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
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Batch B4D0221 - EPA 3550B

Matrix Spike (B4D0221-MS1)		Source: Y404041-01			Prepared: 04/02/2024 Analyzed: 04/09/2024					
Diesel (C10-C28)	970	50.0	mg/kg	1000	ND	97.0	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	66		"	49.8		133	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 - Frico #6-14

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 B4D0221 - EPA 3550B										
Matrix Spike Dup (B4D0221-MSD1)		Source: Y404041-01			Prepared: 04/02/2024 Analyzed: 04/09/2024					
Diesel (C10-C28)	906	50.0	mg/kg	1000	ND	90.6	70-130	6.89	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	7.90	35	
Surrogate: o-Terphenyl	52		"	49.8		104	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 - Frico #6-14

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 B4D0454 - EPA 5030 (soil)										
Blank (B4D0454-BLK1)					Prepared: 04/04/2024 Analyzed: 04/06/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 - Frico #6-14

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 B4D0454 - EPA 5030 (soil)										
LCS (B4D0454-BS1)					Prepared: 04/04/2024 Analyzed: 04/06/2024					
1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100		115	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.0966	0.00380	"	0.100		96.6	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	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 - Frico #6-14

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 B4D0454 - EPA 5030 (soil)										
Matrix Spike (B4D0454-MS1)		Source: Y404038-01			Prepared: 04/04/2024 Analyzed: 04/06/2024					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.0977	0.00200	"	0.100	ND	97.7	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Naphthalene	0.0826	0.00380	"	0.100	ND	82.6	70-130			
Toluene	0.100	0.00200	"	0.100	ND	100	70-130			
o-Xylene	0.0964	0.00200	"	0.100	ND	96.4	70-130			
m,p-Xylene	0.205	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 - Frico #6-14

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 B4D0454 - EPA 5030 (soil)										
Matrix Spike Dup (B4D0454-MSD1)			Source: Y404038-01		Prepared: 04/04/2024 Analyzed: 04/06/2024					
1,2,4-Trimethylbenzene	0.0948	0.00200	mg/kg	0.100	ND	94.8	70-130	9.18	20	
1,3,5-Trimethylbenzene	0.0929	0.00200	"	0.100	ND	92.9	70-130	9.50	20	
Benzene	0.0968	0.00200	"	0.100	ND	96.8	70-130	0.946	20	
Ethylbenzene	0.0971	0.00200	"	0.100	ND	97.1	70-130	8.28	20	
Naphthalene	0.0818	0.00380	"	0.100	ND	81.8	70-130	0.997	20	
Toluene	0.0965	0.00200	"	0.100	ND	96.5	70-130	3.92	20	
o-Xylene	0.0890	0.00200	"	0.100	ND	89.0	70-130	8.00	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	94.8	70-130	7.76	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 - Frico #6-14

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 B4D0229 - EPA 3050B

Blank (B4D0229-BLK1)

Prepared: 04/02/2024 Analyzed: 04/04/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4D0229-BS1)

Prepared: 04/02/2024 Analyzed: 04/04/2024

Arsenic	5.95	0.290	mg/kg	5.00	119	80-120
Barium	541	10.0	"	500	108	80-120
Cadmium	5.76	0.100	"	5.00	115	80-120
Copper	59.3	10.0	"	50.0	119	80-120
Lead	5.76	1.00	"	5.00	115	80-120
Nickel	5.92	1.00	"	5.00	118	80-120
Selenium	10.7	0.260	"	9.50	112	80-120
Silver	5.93	0.100	"	5.00	119	80-120
Zinc	56.9	37.0	"	50.0	114	80-120

Matrix Spike (B4D0229-MS1)

Source: Y404038-04

Prepared: 04/02/2024 Analyzed: 04/04/2024

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

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
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Batch B4D0229 - EPA 3050B

Matrix Spike (B4D0229-MS1)		Source: Y404038-04			Prepared: 04/02/2024 Analyzed: 04/04/2024					
Arsenic	7.43	0.276	mg/kg	4.75	2.17	111	75-125			
Barium	554	9.50	"	475	47.6	107	75-125			
Cadmium	5.68	0.0950	"	4.75	0.0620	118	75-125			
Copper	58.5	9.50	"	47.5	3.99	115	75-125			
Lead	10.5	0.950	"	4.75	5.15	114	75-125			
Nickel	10.7	0.950	"	4.75	5.07	120	75-125			
Selenium	9.78	0.247	"	9.03	0.0620	108	75-125			
Silver	5.40	0.0950	"	4.75	0.0171	113	75-125			
Zinc	71.9	35.2	"	47.5	18.6	112	75-125			
Matrix Spike Dup (B4D0229-MSD1)		Source: Y404038-04			Prepared: 04/02/2024 Analyzed: 04/04/2024					
Arsenic	6.77	0.243	mg/kg	4.20	2.17	110	75-125	9.33	20	
Barium	485	8.39	"	420	47.6	104	75-125	13.3	20	
Cadmium	5.01	0.0839	"	4.20	0.0620	118	75-125	12.6	20	
Copper	52.1	8.39	"	42.0	3.99	115	75-125	11.7	20	
Lead	9.15	0.839	"	4.20	5.15	95.4	75-125	14.1	20	
Nickel	9.99	0.839	"	4.20	5.07	117	75-125	7.28	20	
Selenium	9.11	0.218	"	7.97	0.0620	113	75-125	7.08	20	
Silver	4.75	0.0839	"	4.20	0.0171	113	75-125	12.9	20	
Zinc	65.9	31.1	"	42.0	18.6	113	75-125	8.70	20	

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

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 B4D0532 - EPA 3580

Blank (B4D0532-BLK1)

Prepared: 04/05/2024 Analyzed: 04/09/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		97.9	60-130			
Surrogate: Anthracene-d10	190		"	200		95.5	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

LCS (B4D0532-BS1)

Prepared: 04/05/2024 Analyzed: 04/09/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200		97.5	70-130			
2-Methylnaphthalene	0.193	0.002	"	0.200		96.4	70-130			
Acenaphthene	0.199	0.020	"	0.200		99.6	70-130			
Anthracene	0.201	0.020	"	0.200		101	70-130			

Origins Laboratory, Inc.



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Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

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 B4D0532 - EPA 3580

LCS (B4D0532-BS1)

Prepared: 04/05/2024 Analyzed: 04/09/2024

Benzo (a) anthracene	0.208	0.005	mg/kg	0.200		104	70-130
Benzo (a) pyrene	0.196	0.020	"	0.200		98.1	70-130
Benzo (b) fluoranthene	0.194	0.020	"	0.200		97.0	70-130
Benzo (g,h,i) perylene	0.202	0.020	"	0.200		101	70-130
Benzo (k) fluoranthene	0.186	0.020	"	0.200		93.2	70-130
Chrysene	0.193	0.020	"	0.200		96.7	70-130
Dibenz (a,h) anthracene	0.195	0.020	"	0.200		97.6	70-130
Fluoranthene	0.215	0.020	"	0.200		107	70-130
Fluorene	0.199	0.020	"	0.200		99.6	70-130
Indeno (1,2,3-cd) pyrene	0.225	0.020	"	0.200		112	70-130
Naphthalene	0.210	0.002	"	0.200		105	70-130
Phenanthrene	0.206	0.020	"	0.200		103	70-130
Pyrene	0.189	0.020	"	0.200		94.5	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130
Surrogate: Anthracene-d10	210		"	200		106	60-130
Surrogate: Pyrene-d10	190		"	200		92.7	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.5	60-130

Matrix Spike (B4D0532-MS1)

Source: Y403835-01

Prepared: 04/05/2024 Analyzed: 04/09/2024

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	ND	99.3	70-130
2-Methylnaphthalene	0.195	0.002	"	0.200	ND	97.7	70-130
Acenaphthene	0.194	0.020	"	0.200	ND	97.0	70-130
Anthracene	0.189	0.020	"	0.200	ND	94.5	70-130
Benzo (a) anthracene	0.195	0.005	"	0.200	ND	97.7	70-130
Benzo (a) pyrene	0.192	0.020	"	0.200	ND	96.2	70-130
Benzo (b) fluoranthene	0.190	0.020	"	0.200	ND	95.1	70-130
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	ND	97.0	70-130

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

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 B4D0532 - EPA 3580

Matrix Spike (B4D0532-MS1)		Source: Y403835-01			Prepared: 04/05/2024 Analyzed: 04/09/2024					
Benzo (k) fluoranthene	0.185	0.020	mg/kg	0.200	ND	92.4	70-130			
Chrysene	0.192	0.020	"	0.200	ND	96.1	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200	ND	97.0	70-130			
Fluoranthene	0.217	0.020	"	0.200	ND	109	70-130			
Fluorene	0.198	0.020	"	0.200	ND	99.0	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	ND	98.3	70-130			
Naphthalene	0.196	0.002	"	0.200	0.0009	97.7	70-130			
Phenanthrene	0.197	0.020	"	0.200	ND	98.7	70-130			
Pyrene	0.173	0.020	"	0.200	ND	86.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	180		"	200		91.2	60-130			
Surrogate: Pyrene-d10	170		"	200		86.9	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.6	60-130			

Matrix Spike Dup (B4D0532-MSD1)		Source: Y403835-01			Prepared: 04/05/2024 Analyzed: 04/09/2024					
1-Methylnaphthalene	0.163	0.002	mg/kg	0.200	ND	81.5	70-130	19.8	20	
2-Methylnaphthalene	0.164	0.002	"	0.200	ND	81.9	70-130	17.5	20	
Acenaphthene	0.163	0.020	"	0.200	ND	81.3	70-130	17.7	20	
Anthracene	0.166	0.020	"	0.200	ND	83.0	70-130	13.0	20	
Benzo (a) anthracene	0.170	0.005	"	0.200	ND	84.8	70-130	14.1	20	
Benzo (a) pyrene	0.166	0.020	"	0.200	ND	83.1	70-130	14.6	20	
Benzo (b) fluoranthene	0.158	0.020	"	0.200	ND	78.8	70-130	18.6	20	
Benzo (g,h,i) perylene	0.165	0.020	"	0.200	ND	82.3	70-130	16.4	20	
Benzo (k) fluoranthene	0.169	0.020	"	0.200	ND	84.3	70-130	9.16	20	
Chrysene	0.171	0.020	"	0.200	ND	85.4	70-130	11.8	20	
Dibenz (a,h) anthracene	0.158	0.020	"	0.200	ND	79.2	70-130	20.1	20	QR-02
Fluoranthene	0.187	0.020	"	0.200	ND	93.5	70-130	14.9	20	

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

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

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
Batch B4D0532 - EPA 3580										
Matrix Spike Dup (B4D0532-MSD1)			Source: Y403835-01		Prepared: 04/05/2024 Analyzed: 04/09/2024					
Fluorene	0.174	0.020	mg/kg	0.200	ND	86.9	70-130	13.1	20	
Indeno (1,2,3-cd) pyrene	0.161	0.020	"	0.200	ND	80.3	70-130	20.1	20	QR-02
Naphthalene	0.163	0.002	"	0.200	0.0009	80.8	70-130	18.8	20	
Phenanthrene	0.164	0.020	"	0.200	ND	82.0	70-130	18.5	20	
Pyrene	0.146	0.020	"	0.200	ND	72.8	70-130	17.4	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		88.8	60-130			
Surrogate: Pyrene-d10	180		"	200		88.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.6	60-130			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

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 B4D0305 - Saturated Paste Metals

Blank (B4D0305-BLK1)

Prepared: 04/03/2024 Analyzed: 04/04/2024

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

Duplicate (B4D0305-DUP1)

Source: Y404042-01

Prepared: 04/03/2024 Analyzed: 04/04/2024

SAR	ND	0.0100	SAR	2.12		200
Calcium PPM	32.9	10.0	mg/L	36.2	9.44	50
Magnesium PPM	7.29	10.0	"	8.03	9.66	50
Sodium PPM	49.7	10.0	"	54.2	8.53	50

Batch B4D0513 - DTPA Sorbitol Preparation

Blank (B4D0513-BLK1)

Prepared: 04/05/2024 Analyzed: 04/09/2024

Boron	ND	0.100	mg/L
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Duplicate (B4D0513-DUP1)

Source: Y404038-01

Prepared: 04/05/2024 Analyzed: 04/09/2024

Boron	0.0744	0.0995	mg/L	0.0740	0.536	50
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Batch B4D0514 - DTPA Sorbitol Preparation

Blank (B4D0514-BLK1)

Prepared: 04/05/2024 Analyzed: 04/09/2024

Boron	ND	0.100	mg/L
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Duplicate (B4D0514-DUP1)

Source: Y404042-02

Prepared: 04/05/2024 Analyzed: 04/09/2024

Boron	0.0724	0.101	mg/L	0.0567	24.3	50
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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 - Frico #6-14

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0315 - Saturated Paste pH/EC										
Blank (B4D0315-BLK1)					Prepared: 04/03/2024 Analyzed: 04/04/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4D0315-DUP1)					Source: Y404042-01 Prepared: 04/03/2024 Analyzed: 04/04/2024					
pH	8.52		pH Units		8.56			0.468	25	
Specific Conductance (EC)	0.500	0.00500	mmhos/cm		0.629			22.8	25	
Batch B4D1710 - Saturated Paste pH/EC										
Duplicate (B4D1710-DUP1)					Source: Y404435-01 Prepared: 04/17/2024 Analyzed: 04/18/2024					
pH	8.30		pH Units		8.26			0.483	25	

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2592346 - SW846 3060A										
BLANK (1205694776-BLK)					Prepared: 04/04/2024 Analyzed: 04/08/2024					
Hexavalent Chromium	ND	0.302	mg/kg				-			U
LCS (1205694777-BKS)					Prepared: 04/04/2024 Analyzed: 04/08/2024					
Hexavalent Chromium	3.04	0.299	mg/kg	2.99		102	80-120			
DUP (1205694778 D)					Prepared: 04/04/2024 Analyzed: 04/08/2024					
Source: 661089001										
Hexavalent Chromium	ND	0.369	mg/kg dry		<0.148		0-50	N/A	50	U
MS (1205694779 S)					Prepared: 04/04/2024 Analyzed: 04/08/2024					
Source: 661089001										
Hexavalent Chromium	3.38	0.369	mg/kg dry	3.69	<0.148	90.6	75-125			
ILCS (1205694780-ILCS)					Prepared: 04/04/2024 Analyzed: 04/08/2024					
Hexavalent Chromium	6.61	0.320	mg/kg	6.39		103	80-120			

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

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #6-14

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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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