

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



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

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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  
 Date/time completed: 1/19/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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


Cooler Number/Temperature: 112 °C 1 °C 1 °C (Describe) °C

Thermometer ID: TOCH

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 1/11/24

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**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

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**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

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**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**

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**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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**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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**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	<b>8.44</b>			pH Units	1	B4A3020	01/13/2024	01/31/2024	
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**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	"	"	"	"	"	

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**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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 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)

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			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 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			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 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			

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**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)

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			

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 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
<b>Batch B4A1001 - EPA 3550B</b>										
<b>Blank (B4A1001-BLK1)</b>										
					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			

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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**

**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			

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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**

<b>Matrix Spike (B4A1001-MS1)</b>	<b>Source: Y401159-01</b>			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			

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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
<b>Batch B4A1001 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4A1001-MSD1)</b>					<b>Source: Y401159-01</b>					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			

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 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

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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 B4A1021 - EPA 3050B**

<b>Matrix Spike (B4A1021-MS1)</b>		<b>Source: Y401185-01</b>			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			

<b>Matrix Spike Dup (B4A1021-MSD1)</b>		<b>Source: Y401185-01</b>			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

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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 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			

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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 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			

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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 B4A1125 - EPA 3580**

<b>Matrix Spike (B4A1125-MS1)</b>		<b>Source: Y401185-01</b>			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			

<b>Matrix Spike Dup (B4A1125-MSD1)</b>		<b>Source: Y401185-01</b>			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	

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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 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			

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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 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

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 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
<b>Batch B4A1307 - Saturated Paste pH/EC</b>										
<b>Blank (B4A1307-BLK1)</b>					Prepared: 01/13/2024 Analyzed: 01/15/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4A1307-DUP1)</b>					<b>Source: Y401185-01</b> 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	
<b>Batch B4A3020 - Saturated Paste pH/EC</b>										
<b>Duplicate (B4A3020-DUP1)</b>					<b>Source: Y401695-01</b> Prepared: 01/30/2024 Analyzed: 01/31/2024					
pH	8.41		pH Units		8.42		0.119		25	

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

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.*

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Wheat Ridge CO 80033

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

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### 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.

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