



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.



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Jordan A. Bynon, Project Manager

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

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Y404042

page | of |

Client: Eagle Environmental Consulting

Address: 8000 W 14th Ave

West Ridge, CO 80033

Telephone Number: 303-433-0479

Email Address: anewborn@eagle-enviro.com

Project Manager: Andrew Newborn

Project Name: FRCO #6-14

Project Number: RS

Samples Collected By: RS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			Other
Background - 02e2'	4/1/24	1125	2	X							X	X	EC, SAR, pH = 1
FL-55-01e4'	↓	1340	3	X							X	X	1 saturated probe prep 2
													3
													4
													5
													6
													7
													8
													9
													10
Relinquished By: <u>[Signature]</u>	Date: <u>4/1/24</u>	Time: <u>1539</u>	Received By: <u>[Signature]</u>	Date: <u>4/1/24</u>	Time: <u>1539</u>	Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard							
Relinquished By: <u>[Signature]</u>	Date: <u>4/1/24</u>	Time: <u>1539</u>	Received By: <u>[Signature]</u>	Date: <u>4/1/24</u>	Time: <u>1539</u>								

Bill to Wade

Temp Received- 3

Date Results Needed - None

Origins Laboratory, Inc.

Byron

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Eagle Environmental Consulting, LLC
8000 W 44th Ave
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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: DN/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

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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)

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	"	"	"	"	"

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Andrew Newberry
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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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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

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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

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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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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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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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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			

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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			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

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

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Jordan A. Bynon, Project Manager

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Andrew Newberry
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

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

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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
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			

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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			

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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			

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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			

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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

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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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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			

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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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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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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			

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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 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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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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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			

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

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.

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