



January 30, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Frico #20-15

Project Number - [none]

Attached are your analytical results for Noble - Frico #20-15 received by Origins Laboratory, Inc. January 18, 2024. This project is associated with Origins project number Y401435-01.

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 #20-15

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2	Y401435-01	Soil	January 18, 2024 15:05	01/18/2024 15:15

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

ORIGINS LABORATORY, INC

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

Andrew Newberry
Project Number: [none]
Project: Noble - Frico #20-15

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

Sample Receipt Checklist

Origins Work Order: 4401435 Client: Eagle
Client Project ID: Frico 2015

Checklist Completed by: ENS Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 1/18/24 Airbill #: N/A

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

Cooler Number/Temperature: 113 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: T004

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 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 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 1/18/24

Origins Laboratory, Inc.
[Signature]

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Frico #20-15

Background-01@2'
1/18/2024 3:05:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401435-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.141	0.0999	mg/L	1	B4A2210	ACC	01/22/2024	01/23/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.973	0.499	meq/L	10	[CALC]	ACC	01/20/2024	01/22/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	ND	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.13		pH Units	1	B4A2007	EAL	01/20/2024	01/22/2024	
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SAR by 20B Saturated Paste

SAR	0.247	0.0100	SAR	1	B4A2003	ACC	01/20/2024	01/22/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.266	0.00500	mmhos/cm	1	B4A2007	EAL	01/20/2024	01/22/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.36	0.0977	mg/kg	10	B4A1840	JAH	01/18/2024	01/23/2024	
Barium	56.9	9.77	"	"	"	JAH	"	"	
Cadmium	ND	0.0977	"	"	"	JAH	"	"	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Frico #20-15


Background-01@2'
1/18/2024 3:05:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401435-01 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.77	mg/kg	10	B4A1840	JAH	01/18/2024	01/23/2024	
Lead	5.54	0.977	"	"	"	JAH	"	"	
Nickel	6.07	0.977	"	"	"	JAH	"	"	
Selenium	0.117	0.0977	"	"	"	JAH	"	"	
Silver	ND	0.0977	"	"	"	JAH	"	"	
Zinc	26.7	9.77	"	"	"	JAH	"	"	

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 Project Number: [none]
 Project: Noble - Frico #20-15

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 B4A1840 - EPA 3050B

Prepared: 01/18/2024 Analyzed: 01/25/2024

Blank (B4A1840-BLK1)

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 (B4A1840-BS1)

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	4.52	0.0100	mg/kg	5.00		90.5	80-120			
Barium	433	1.00	"	500		86.6	80-120			
Cadmium	4.79	0.0100	"	5.00		95.7	80-120			
Copper	48.1	1.00	"	50.0		96.2	80-120			
Lead	4.93	0.100	"	5.00		98.7	80-120			
Nickel	4.78	0.100	"	5.00		95.6	80-120			
Selenium	4.59	0.0100	"	5.00		91.8	80-120			
Silver	4.72	0.0100	"	5.00		94.3	80-120			
Zinc	47.8	1.00	"	50.0		95.6	80-120			

Matrix Spike (B4A1840-MS1)

Source: Y401430-01

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	5.41	0.0888	mg/kg	4.44	1.85	80.2	75-125			
Barium	455	8.88	"	444	53.9	90.3	75-125			
Cadmium	4.47	0.0888	"	4.44	0.0817	98.9	75-125			
Copper	47.1	8.88	"	44.4	5.11	94.5	75-125			
Lead	9.25	0.888	"	4.44	5.10	93.4	75-125			

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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 B4A1840 - EPA 3050B

Matrix Spike (B4A1840-MS1)

Source: Y401430-01

Prepared: 01/18/2024 Analyzed: 01/23/2024

Nickel	8.02	0.888	mg/kg	4.44	4.22	85.6	75-125			
Selenium	4.17	0.0888	"	4.44	0.0845	91.9	75-125			
Silver	4.07	0.0888	"	4.44	0.0186	91.3	75-125			
Zinc	61.6	8.88	"	44.4	20.2	93.1	75-125			

Matrix Spike Dup (B4A1840-MSD1)

Source: Y401430-01

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	5.64	0.0983	mg/kg	4.91	1.85	77.2	75-125	4.16	20	
Barium	476	9.83	"	491	53.9	86.0	75-125	4.62	20	
Cadmium	4.65	0.0983	"	4.91	0.0817	92.9	75-125	3.79	20	
Copper	48.3	9.83	"	49.1	5.11	88.0	75-125	2.64	20	
Lead	9.43	0.983	"	4.91	5.10	88.2	75-125	1.96	20	
Nickel	7.98	0.983	"	4.91	4.22	76.4	75-125	0.592	20	
Selenium	4.35	0.0983	"	4.91	0.0845	86.8	75-125	4.31	20	
Silver	4.25	0.0983	"	4.91	0.0186	86.1	75-125	4.22	20	
Zinc	62.7	9.83	"	49.1	20.2	86.5	75-125	1.86	20	

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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 B4A2003 - Saturated Paste Metals

Blank (B4A2003-BLK1)

Prepared: 01/20/2024 Analyzed: 01/22/2024

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

Duplicate (B4A2003-DUP1)

Source: Y401404-01

Prepared: 01/20/2024 Analyzed: 01/22/2024

Calcium PPM	25.7	10.0	mg/L		27.4			6.40	50	
SAR	ND	0.0100	SAR		1.91				200	
Magnesium PPM	8.88	10.0	mg/L		8.94			0.673	50	
Sodium PPM	48.4	10.0	"		45.1			7.02	50	

Batch B4A2210 - DTPA Sorbitol Preparation

Blank (B4A2210-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4A2210-DUP1)

Source: Y401404-01

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	0.370	0.0990	mg/L		0.383			3.63	50	
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Project: Noble - Frico #20-15

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2007 - Saturated Paste pH/EC

Blank (B4A2007-BLK1)

Prepared: 01/20/2024 Analyzed: 01/22/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4A2007-DUP1) Source: Y401404-01

Prepared: 01/20/2024 Analyzed: 01/22/2024

pH 8.47 pH Units 8.48 0.118 25

Specific Conductance (EC) 0.458 0.00500 mmhos/cm 0.461 0.697 25

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Project Number: [none]
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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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