



October 24, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Boulter #14-14G

Project Number - [none]

Attached are your analytical results for Noble - Boulter #14-14G received by Origins Laboratory, Inc. October 12, 2023. This project is associated with Origins project number Y310387-01.

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 - Boulder #14-14G

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3	Y310387-01	Soil	September 27, 2023 14:40	10/12/2023 16:35

Chain of Custody Modification Request

On 10/13/2023, Grace Congdon from Eagle Environmental contacted Jennifer Pellegrini via email regarding Y310387 requesting that pH, SAR, and the 6020 915 metals be run on the sample.

Requested modifications to the chain of custody were made by Jennifer Pellegrini on 10/13/2023.

Origins Laboratory, Inc.



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ORIGINS LABORATORY, INC

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

Andrew Newberry
Project Number: [none]
Project: Noble - Boulder #14-14G

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

Sample Receipt Checklist

Origins Work Order: V310387 Client: Eagle
Client Project ID: Bositer #14-14 G
Checklist Completed by: EHS/JG Shipped Via: HO
Date/time completed: 10/12/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
(Describe)
Cooler Number/Temperature: 1 14.2 °C / _____ °C / _____ °C / _____ °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"/>			<u>no analysis used</u>
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 subcooled analytes in order to insure sample integrity)(pH <2 for samples preserved with HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 10/16/23

Origins Laboratory, Inc.

[Signature]

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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 - Boulder #14-14G

Background-01@3'
9/27/2023 2:40:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310387-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.53	0.499	meq/L	10	[CALC]	KAP	10/17/2023	10/18/2023	
Magnesium	5.15	0.823	"	"	"	KAP	"	"	
Sodium	24.1	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.52		pH Units	1	B3J1715	HJD	10/17/2023	10/18/2023	
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SAR by 20B Saturated Paste

SAR	13.2	0.0100	SAR	1	B3J1709	KAP	10/17/2023	10/18/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.19	0.0893	mg/kg	10	B3J1317	CIH	10/13/2023	10/19/2023	
Barium	69.6	8.93	"	"	"	CIH	"	"	
Cadmium	ND	0.0893	"	"	"	CIH	"	"	
Copper	ND	8.93	"	"	"	CIH	"	"	
Lead	ND	8.93	"	"	"	CIH	"	"	
Nickel	ND	8.93	"	"	"	CIH	"	"	
Selenium	0.258	0.0893	"	"	"	CIH	"	"	
Silver	ND	0.0893	"	"	"	CIH	"	"	
Zinc	ND	89.3	"	"	"	CIH	"	"	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Boulder #14-14G

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 B3J1317 - EPA 3050B

Prepared: 10/13/2023 Analyzed: 10/17/2023

Blank (B3J1317-BLK1)

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3J1317-BS1)

Prepared: 10/13/2023 Analyzed: 10/17/2023

Arsenic	0.0460	0.000100	mg/kg	0.0500		91.9	80-120			
Barium	4.88	0.0100	"	5.00		97.7	80-120			
Cadmium	0.0493	0.000100	"	0.0500		98.5	80-120			
Copper	0.494	0.0100	"	0.500		98.7	80-120			
Lead	0.0496	0.0100	"	0.0500		99.3	80-120			
Nickel	0.0491	0.0100	"	0.0500		98.2	80-120			
Selenium	0.0496	0.000100	"	0.0500		99.3	80-120			
Silver	0.0448	0.000100	"	0.0500		89.6	80-120			
Zinc	0.457	0.100	"	0.500		91.4	80-120			

Matrix Spike (B3J1317-MS1)

Source: Y310328-04

Prepared: 10/13/2023 Analyzed: 10/17/2023

Arsenic	6.67	0.0875	mg/kg	4.38	1.82	111	75-125			
Barium	538	8.75	"	438	68.5	107	75-125			
Cadmium	4.87	0.0875	"	4.38	0.0592	110	75-125			
Copper	49.8	8.75	"	43.8	6.02	99.9	75-125			
Lead	10.5	8.75	"	4.38	6.27	95.8	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 B3J1317 - EPA 3050B

Matrix Spike (B3J1317-MS1)

Source: Y310328-04

Prepared: 10/13/2023 Analyzed: 10/17/2023

Nickel	8.84	8.75	mg/kg	4.38	4.65	95.8	75-125			
Selenium	4.81	0.0875	"	4.38	0.0775	108	75-125			
Silver	4.41	0.0875	"	4.38	0.0200	100	75-125			
Zinc	77.4	87.5	"	43.8	27.8	113	75-125			

Matrix Spike Dup (B3J1317-MSD1)

Source: Y310328-04

Prepared: 10/13/2023 Analyzed: 10/17/2023

Arsenic	6.44	0.0898	mg/kg	4.49	1.82	103	75-125	3.54	20	
Barium	554	8.98	"	449	68.5	108	75-125	2.95	20	
Cadmium	4.85	0.0898	"	4.49	0.0592	107	75-125	0.347	20	
Copper	49.1	8.98	"	44.9	6.02	96.1	75-125	1.26	20	
Lead	10.3	8.98	"	4.49	6.27	90.0	75-125	1.45	20	
Nickel	8.69	8.98	"	4.49	4.65	90.1	75-125	1.68	20	
Selenium	4.59	0.0898	"	4.49	0.0775	101	75-125	4.61	20	
Silver	4.43	0.0898	"	4.49	0.0200	98.2	75-125	0.331	20	
Zinc	76.2	89.8	"	44.9	27.8	108	75-125	1.57	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 B3J1709 - Saturated Paste Metals

Blank (B3J1709-BLK1)

Prepared: 10/17/2023 Analyzed: 10/18/2023

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

Duplicate (B3J1709-DUP1)

Source: Y310350-04

Prepared: 10/17/2023 Analyzed: 10/18/2023

Calcium PPM	49.5	10.0	mg/L		44.9			9.85	50	
SAR	ND	0.0100	SAR		2.71				200	
Magnesium PPM	13.5	10.0	mg/L		12.3			9.61	50	
Sodium PPM	70.4	10.0	"		79.5			12.1	50	

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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 B3J1715 - Saturated Paste pH/EC

Duplicate (B3J1715-DUP1)

Source: Y310350-04

Prepared: 10/17/2023 Analyzed: 10/18/2023

pH	8.21		pH Units		8.24			0.365	25	
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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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