



Eagle Environmental Consulting, LLC  
Alfred Garraffa  
8000 W 44th Ave

October 01, 2024

Wheat Ridge CO 80033

Project Name - Noble - State #36-614

Project Number - [none]

Attached are your analytical results for Noble - State #36-614 received by Origins Laboratory September 17, 2024. This project is associated with Origins project number E409487-01.

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  
303.433.1322  
projectmanager@originslab.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

Alfred Garraffa  
Project Number: [none]  
Project: Noble - State #36-614

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-SS-24-01@7'	E409487-01	Soil	September 17, 2024 13:57	09/17/2024 15:32
EX-SS-25-01@7'	E409487-02	Soil	September 17, 2024 14:07	09/17/2024 15:32

Origins Laboratory



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# ORIGINS

LABORATORY INC

ORIGINS WORK ORDER #

**E400487**

Page 1 of 1

Client: Eagle Environmental Consulting

Project Manager: Alfred Garraffa

Key:

Address: 8000 W 44th Ave

Project Name: State #36-614

W=Water

Telephone Number: 303-433-0499

Project Number: 66

GW=Groundwater

Email Address: algarraffa@eagle-environmental.com

Collected By: EG

SW=Surface Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=sulfuric | NaOH=sodium Hydroxide

Invoice/Billing Info: Noble / Bill to Don

WW=Waste Water

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis				Comments
1	ES-55-24-01-01	9/17/24	1357	2	S	UNP	X	X	X		MDLs Met
2	ES-55-25-01-01	9/17/24	1407	2	S	UNP	X	X	X		MDLs Met
3											
4											
5											
6											
7											
8											
9											
10											


Relinquished By: [Signature] Date: 9/17/24 Time: 1532

Received By: [Signature] Date: 9/19/24 Time: 1532

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received - 24 Received On Ice?  Yes  No

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Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: EU09487

Client: Eagle

Checklist Completed by: AD/WS

Client Project ID: ST 350-014

Date/time completed: 9/17/12

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Cooler Number/Temperature: 1 12.4 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1005

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"/>	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<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.

SHD  
 Reviewed by (Project Manager)

9/17/12  
 Date/Time Reviewed

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**EX-SS-24-01@7'**

**9/17/2024 1:57:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409487-01 (Soil)**

**pH in Soil by 9045D**

pH	8.48			pH Units	1	B412415	09/24/2024	09/26/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.81		0.287	mg/kg	10	B411740	09/17/2024	09/18/2024	
Barium	84.0		9.88	"	"	"	"	"	

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**EX-SS-25-01@7'**

**9/17/2024 2:07:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409487-02 (Soil)**

**pH in Soil by 9045D**

pH	8.49			pH Units	1	B412415	09/24/2024	09/26/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	9.58		0.272	mg/kg	10	B411740	09/17/2024	09/18/2024	
Barium	76.7		9.39	"	"	"	"	"	

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411740 - EPA 3050B**

**Blank (B411740-BLK1)**

Prepared: 09/17/2024 Analyzed: 09/18/2024

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 (B411740-BS1)**

Prepared: 09/17/2024 Analyzed: 09/18/2024

Arsenic	5.05	0.290	mg/kg	5.00	101	80-120
Barium	502	10.0	"	500	100	80-120
Cadmium	5.13	0.100	"	5.00	103	80-120
Copper	52.3	10.0	"	50.0	105	80-120
Lead	4.86	1.00	"	5.00	97.2	80-120
Nickel	5.21	1.00	"	5.00	104	80-120
Selenium	5.06	0.260	"	5.00	101	80-120
Silver	5.45	0.100	"	5.00	109	80-120
Zinc	50.6	37.0	"	50.0	101	80-120

**Matrix Spike (B411740-MS1)**

**Source: E409486-01**

Prepared: 09/17/2024 Analyzed: 09/18/2024

Arsenic	7.28	0.277	mg/kg	4.78	3.03	89.0	75-125
Barium	590	9.55	"	478	98.7	103	75-125
Cadmium	4.91	0.0955	"	4.78	0.0918	101	75-125
Copper	52.4	9.55	"	47.8	3.75	102	75-125
Lead	8.28	0.955	"	4.78	3.59	98.3	75-125

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411740 - EPA 3050B**

**Matrix Spike (B411740-MS1)**

**Source: E409486-01**

Prepared: 09/17/2024 Analyzed: 09/18/2024

Nickel	8.38	0.955	mg/kg	4.78	3.63	99.6	75-125			
Selenium	4.64	0.248	"	4.78	0.0491	96.2	75-125			
Silver	5.04	0.0955	"	4.78	0.0554	104	75-125			
Zinc	62.0	35.3	"	47.8	15.2	98.1	75-125			

**Matrix Spike Dup (B411740-MSD1)**

**Source: E409486-01**

Prepared: 09/17/2024 Analyzed: 09/18/2024

Arsenic	7.25	0.257	mg/kg	4.44	3.03	95.3	75-125	0.307	20	
Barium	566	8.87	"	444	98.7	105	75-125	4.12	20	
Cadmium	4.63	0.0887	"	4.44	0.0918	102	75-125	5.89	20	
Copper	49.9	8.87	"	44.4	3.75	104	75-125	4.93	20	
Lead	7.91	0.887	"	4.44	3.59	97.4	75-125	4.56	20	
Nickel	8.11	0.887	"	4.44	3.63	101	75-125	3.36	20	
Selenium	4.57	0.231	"	4.44	0.0491	102	75-125	1.47	20	
Silver	4.78	0.0887	"	4.44	0.0554	106	75-125	5.36	20	
Zinc	59.0	32.8	"	44.4	15.2	98.7	75-125	5.06	20	

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**Saturated Paste - Quality Control  
 Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4I2415 - Saturated Paste pH/EC**

**Duplicate (B4I2415-DUP1)**

**Source: E409451-06**

Prepared: 09/24/2024 Analyzed: 09/26/2024

pH	8.46		pH Units		8.49			0.354	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 on a wet weight basis.

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