

ORIGINS LABORATORY

Eagle Environmental Consulting, LLC

December 30, 2024

Alfred Garraffa

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - WPF III #A18-13A

Project Number - [none]

Attached are your analytical results for Noble - WPF III #A18-13A received by Origins Laboratory November 26, 2024. This project is associated with Origins project number E4K0868-01.

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 - WPF III #A18-13A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@6-7'	E4K0868-01	Soil	November 26, 2024 13:20	11/26/2024 15:19
Background-02@7-8'	E4K0868-02	Soil	November 26, 2024 13:30	11/26/2024 15:19
Background-03@6-7'	E4K0868-03	Soil	November 26, 2024 13:25	11/26/2024 15:19
Background-03@7-8'	E4K0868-04	Soil	November 26, 2024 13:35	11/26/2024 15:19
Background-04@6-7'	E4K0868-05	Soil	November 26, 2024 14:00	11/26/2024 15:19
Background-04@7-8'	E4K0868-06	Soil	November 26, 2024 14:10	11/26/2024 15:19

Origins Laboratory

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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

ORIGINS
LABORATORY

EW0808

Page 1 of 1

Client: Eagle Environmental Consulting

Project Manager: Alfred Garraffa

Key:

Address: 5000 W 44th Ave

Project Name: WPF III #A18-13A

W=Water

Telephone Number: 303-433-2174

Project Number:

GW=Groundwater

Email Address: agarraffa@eagle-ec.com

Collected By: AS

SW=Surface Water

S=soil | SO=soil (0-01) | A=air | G=gas | U=urines | HCl=Hydrochloric | HNO3=Nitric | H2SO4=sulfuric | NaOH=sodium hydroxide

Invoice/Billing Info: Noble - Bill to Dan

L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis				Comments
							EC, SAR, pH	DOC, turbidity	Trace metals - copper	CrVI - TSS/A	
1	Background - 01E6-7	11/14/24	1320	2	S	WPF	X	X	X	X	EC, SAR, pH =
2	Background - 01E7-8		1330								Schedule prep job
3	Background - 03E6-7		1325								
4	Background - 03E7-8		1335								
5	Background - 04E6-7		1400								
6	Background - 04E7-8		1410								
7											
8											
9											
10											

Delivered By: [Signature] Date: 11/16/24 Time: 1519
 Received By: [Signature] Date: 11/20/24 Time: 619
 Turnaround Time: 48 Hr 72 Hr 24 Hr DAV

Origins Laboratory

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

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

Sample Receipt Checklist

Origins Work Order: ELV20808 Client: Eagle
Client Project ID: WPF III

Checklist Completed by: AMN Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 11/20/12 Airbill #: N/A

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

Cooler Number/Temperature: 1 15.9 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 700T

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) AMN

12/2/12
Date/Time Reviewed

Origins Laboratory



Jordan A. Bynon, Project Manager

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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Background-02@6-7'
11/26/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.924		0.100	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	12.8		0.499	meq/L	10	[CALC]	12/02/2024	12/05/2024	
Magnesium	9.88		0.823	"	"	"	"	"	
Sodium	16.0		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.95			pH Units	1	B4L0225	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	4.75		0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.14		0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.27		0.275	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Barium	91.7		9.47	"	"	"	"	"	
Cadmium	0.159		0.0947	"	"	"	"	"	
Copper	ND		9.47	"	"	"	"	"	

Origins Laboratory

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8000 W 44th Ave
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Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

Background-02@6-7'
11/26/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-01 (Soil)

Table 915 metals by EPA 6020B

Lead	8.76		0.947	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Nickel	11.7		0.947	"	"	"	"	"	"
Selenium	ND		0.246	"	"	"	"	"	"
Silver	ND		0.0947	"	"	"	"	"	"
Zinc	39.4		35.0	"	"	"	"	"	"

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Alfred Garraffa
 Project Number: [none]
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Background-02@7-8'
11/26/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.938		0.0994	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	20.4		0.499	meq/L	10	[CALC]	12/02/2024	12/05/2024	
Magnesium	14.2		0.823	"	"	"	"	"	
Sodium	23.1		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.95			pH Units	1	B4L0225	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	5.56		0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.59		0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.76		0.249	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Barium	93.3		8.60	"	"	"	"	"	
Cadmium	0.154		0.0860	"	"	"	"	"	
Copper	ND		8.60	"	"	"	"	"	

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Background-02@7-8'
11/26/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-02 (Soil)

Table 915 metals by EPA 6020B

Lead	7.89		0.860	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Nickel	12.8		0.860	"	"	"	"	"	"
Selenium	ND		0.224	"	"	"	"	"	"
Silver	ND		0.0860	"	"	"	"	"	"
Zinc	37.6		31.8	"	"	"	"	"	"

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Alfred Garraffa
 Project Number: [none]
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Background-03@6-7'
11/26/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.582		0.0990	mg/L	1	B4L0211	12/02/2024	12/03/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	6.77		0.499	meq/L	10	[CALC]	12/02/2024	12/05/2024	
Magnesium	5.10		0.823	"	"	"	"	"	
Sodium	11.8		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.07			pH Units	1	B4L0225	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	4.83		0.0100	SAR	1	B4L0218	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.20		0.00500	mmhos/cm	1	B4L0225	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.52		0.258	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Barium	75.1		8.89	"	"	"	"	"	
Cadmium	0.150		0.0889	"	"	"	"	"	
Copper	ND		8.89	"	"	"	"	"	

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8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

Background-03@6-7'
11/26/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-03 (Soil)

Table 915 metals by EPA 6020B

Lead	6.87		0.889	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Nickel	8.45		0.889	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0889	"	"	"	"	"	
Zinc	ND		32.9	"	"	"	"	"	

Total Metals by SW7199

Chromium, Hexavalent	0.22	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Alfred Garraffa
 Project Number: [none]
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Background-03@7-8'
11/26/2024 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.568		0.100	mg/L	1	B4L0212	12/02/2024	12/03/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	7.65		0.499	meq/L	10	[CALC]	12/02/2024	12/03/2024	
Magnesium	5.38		0.823	"	"	"	"	"	
Sodium	16.5		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.07			pH Units	1	B4L0226	12/02/2024	12/03/2024	
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SAR by 20B Saturated Paste

SAR	6.47		0.0100	SAR	1	B4L0219	12/02/2024	12/03/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.74		0.00500	mmhos/cm	1	B4L0226	12/02/2024	12/03/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.65		0.267	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Barium	72.8		9.21	"	"	"	"	"	
Cadmium	0.106		0.0921	"	"	"	"	"	
Copper	ND		9.21	"	"	"	"	"	

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 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Background-03@7-8'
11/26/2024 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-04 (Soil)

Table 915 metals by EPA 6020B

Lead	5.77		0.921	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Nickel	6.63		0.921	"	"	"	"	"	"
Selenium	ND		0.239	"	"	"	"	"	"
Silver	ND		0.0921	"	"	"	"	"	"
Zinc	ND		34.1	"	"	"	"	"	"

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Background-04@6-7'
11/26/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.860		0.102	mg/L	1	B4L0212	12/02/2024	12/03/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	23.5		0.499	meq/L	10	[CALC]	12/02/2024	12/03/2024	
Magnesium	18.7		0.823	"	"	"	"	"	
Sodium	26.5		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.06			pH Units	1	B4L0226	12/02/2024	12/03/2024	
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SAR by 20B Saturated Paste

SAR	5.77		0.0100	SAR	1	B4L0219	12/02/2024	12/03/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.90		0.00500	mmhos/cm	1	B4L0226	12/02/2024	12/03/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.08		0.248	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Barium	120		8.55	"	"	"	"	"	
Cadmium	0.138		0.0855	"	"	"	"	"	
Copper	ND		8.55	"	"	"	"	"	

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Background-04@6-7'
11/26/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-05 (Soil)

Table 915 metals by EPA 6020B

Lead	5.93		0.855	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Nickel	7.56		0.855	"	"	"	"	"	"
Selenium	ND		0.222	"	"	"	"	"	"
Silver	ND		0.0855	"	"	"	"	"	"
Zinc	ND		31.6	"	"	"	"	"	"

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Background-04@7-8'
11/26/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.719		0.101	mg/L	1	B4L0212	12/02/2024	12/03/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	23.3		0.499	meq/L	10	[CALC]	12/02/2024	12/03/2024	
Magnesium	16.4		0.823	"	"	"	"	"	
Sodium	22.9		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.03			pH Units	1	B4L0226	12/02/2024	12/03/2024	
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SAR by 20B Saturated Paste

SAR	5.15		0.0100	SAR	1	B4L0219	12/02/2024	12/03/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.80		0.00500	mmhos/cm	1	B4L0226	12/02/2024	12/03/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.03		0.271	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Barium	52.8		9.34	"	"	"	"	"	
Cadmium	0.163		0.0934	"	"	"	"	"	
Copper	ND		9.34	"	"	"	"	"	

Origins Laboratory

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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Background-04@7-8'
11/26/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0868-06 (Soil)

Table 915 metals by EPA 6020B

Lead	6.04		0.934	mg/kg	10	B4K2739	11/27/2024	12/06/2024	
Nickel	8.17		0.934	"	"	"	"	"	"
Selenium	ND		0.243	"	"	"	"	"	"
Silver	ND		0.0934	"	"	"	"	"	"
Zinc	ND		34.6	"	"	"	"	"	"

Total Metals by SW7199

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHL0332	12/06/2024	12/11/2024	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 B4K2739 - EPA 3050B

Blank (B4K2739-BLK1)

Prepared: 11/27/2024 Analyzed: 12/06/2024

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 (B4K2739-BS1)

Prepared: 11/27/2024 Analyzed: 12/06/2024

Arsenic	5.75	0.290	mg/kg	5.00		115	80-120			
Barium	552	10.0	"	500		110	80-120			
Cadmium	5.84	0.100	"	5.00		117	80-120			
Copper	58.0	10.0	"	50.0		116	80-120			
Lead	5.96	1.00	"	5.00		119	80-120			
Nickel	5.87	1.00	"	5.00		117	80-120			
Selenium	5.78	0.260	"	5.00		116	80-120			
Silver	5.94	0.100	"	5.00		119	80-120			
Zinc	60.2	37.0	"	50.0		120	80-120			

Matrix Spike (B4K2739-MS1)

Source: E4K0842-06

Prepared: 11/27/2024 Analyzed: 12/06/2024

Arsenic	7.58	0.266	mg/kg	4.59	2.89	102	75-125			
Barium	640	9.18	"	459	111	115	75-125			
Cadmium	5.45	0.0918	"	4.59	0.0942	117	75-125			
Copper	57.1	9.18	"	45.9	3.84	116	75-125			
Lead	10.5	0.918	"	4.59	5.65	106	75-125			

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 B4K2739 - EPA 3050B

Matrix Spike (B4K2739-MS1)

Source: E4K0842-06

Prepared: 11/27/2024 Analyzed: 12/06/2024

Nickel	9.60	0.918	mg/kg	4.59	4.61	109	75-125			
Selenium	5.22	0.239	"	4.59	0.0572	112	75-125			
Silver	5.52	0.0918	"	4.59	0.0219	120	75-125			
Zinc	73.8	34.0	"	45.9	20.9	115	75-125			

Matrix Spike Dup (B4K2739-MSD1)

Source: E4K0842-06

Prepared: 11/27/2024 Analyzed: 12/06/2024

Arsenic	7.36	0.272	mg/kg	4.69	2.89	95.3	75-125	2.94	20	
Barium	622	9.38	"	469	111	109	75-125	2.87	20	
Cadmium	5.38	0.0938	"	4.69	0.0942	113	75-125	1.30	20	
Copper	55.0	9.38	"	46.9	3.84	109	75-125	3.75	20	
Lead	10.2	0.938	"	4.69	5.65	96.8	75-125	3.22	20	
Nickel	9.38	0.938	"	4.69	4.61	102	75-125	2.27	20	
Selenium	4.90	0.244	"	4.69	0.0572	103	75-125	6.24	20	
Silver	5.38	0.0938	"	4.69	0.0219	114	75-125	2.59	20	
Zinc	70.7	34.7	"	46.9	20.9	106	75-125	4.23	20	

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Alfred Garraffa
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Classical Chemistry Parameters - 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 B4L0211 - DTPA Sorbitol Preparation

Blank (B4L0211-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

Boron ND 0.100 mg/L

Duplicate (B4L0211-DUP1)

Source: E4K0864-01

Prepared: 12/02/2024 Analyzed: 12/03/2024

Boron 0.525 0.101 mg/L 0.520 0.860 50

Batch B4L0212 - DTPA Sorbitol Preparation

Blank (B4L0212-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

Boron ND 0.100 mg/L

Duplicate (B4L0212-DUP1)

Source: E4K0842-06

Prepared: 12/02/2024 Analyzed: 12/03/2024

Boron 0.106 0.0996 mg/L 0.0929 13.0 50

Batch B4L0218 - Saturated Paste Metals

Blank (B4L0218-BLK1)

Prepared: 12/02/2024 Analyzed: 12/05/2024

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 (B4L0218-DUP1)

Source: E4K0864-01

Prepared: 12/02/2024 Analyzed: 12/05/2024

Calcium PPM 15.2 10.0 mg/L 15.6 2.47 50

SAR ND 0.0100 SAR 4.05 200

Magnesium PPM 4.29 10.0 mg/L 4.50 4.78 50

Sodium PPM 68.7 10.0 " 70.6 2.66 50

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Jordan A. Bynon, Project Manager



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

Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Classical Chemistry Parameters - 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 B4L0219 - Saturated Paste Metals

Blank (B4L0219-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

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 (B4L0219-DUP1)

Source: E4K0842-06

Prepared: 12/02/2024 Analyzed: 12/03/2024

Calcium PPM	13.6	10.0	mg/L		15.0			9.30	50	
SAR	ND	0.0100	SAR		0.0981				200	
Magnesium PPM	13.9	10.0	mg/L		14.7			5.17	50	
Sodium PPM	2.17	10.0	"		2.23			2.73	50	

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Alfred Garraffa
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 B4L0225 - Saturated Paste pH/EC

Blank (B4L0225-BLK1)

Prepared: 12/02/2024 Analyzed: 12/04/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4L0225-DUP1)

Source: E4K0864-01

Prepared: 12/02/2024 Analyzed: 12/04/2024

Specific Conductance (EC)	0.442	0.00500	mmhos/cm	0.448	1.37	25
pH	8.54		pH Units	8.51	0.352	25

Batch B4L0226 - Saturated Paste pH/EC

Blank (B4L0226-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4L0226-DUP1)

Source: E4K0842-06

Prepared: 12/02/2024 Analyzed: 12/03/2024

Specific Conductance (EC)	0.281	0.00500	mmhos/cm	0.268	4.74	25
pH	8.61		pH Units	8.58	0.349	25

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Alfred Garraffa
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Total Metals by SW7199 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHL0332 - No Prep IC-WET										
Blank (BHL0332-BLK1)										
					Prepared: 12/06/2024 Analyzed: 12/10/2024					
Chromium, Hexavalent	ND	0.005	mg/kg							
LCS (BHL0332-BS1)										
					Prepared: 12/06/2024 Analyzed: 12/11/2024					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		102	80-120			
Matrix Spike (BHL0332-MS1)										
					Prepared: 12/06/2024 Analyzed: 12/11/2024					
		Source: 24L0073-01								
Chromium, Hexavalent	2.24	0.20	mg/kg	2.00	ND	112	75-125			
Matrix Spike Dup (BHL0332-MSD1)										
					Prepared: 12/06/2024 Analyzed: 12/11/2024					
		Source: 24L0073-01								
Chromium, Hexavalent	2.33	0.20	mg/kg	2.00	ND	117	75-125	3.85	20	

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

Alfred Garraffa
Project Number: [none]
Project: Noble - WPF III #A18-13A

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.

Origins Laboratory

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Jordan A. Bynon, Project Manager