



November 07, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Huntsman G #13-10

Project Number - [none]

Attached are your analytical results for Noble - Huntsman G #13-10 received by Origins Laboratory, Inc. October 17, 2023. This project is associated with Origins project number Y310480-01.

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 - Huntsman G #13-10

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y310480-01	Water	October 17, 2023 11:00	10/17/2023 18:05
MW-02	Y310480-02	Water	October 17, 2023 11:20	10/17/2023 18:05
MW-03	Y310480-03	Water	October 17, 2023 11:40	10/17/2023 18:05
MW-04	Y310480-04	Water	October 17, 2023 12:00	10/17/2023 18:05
MW-05	Y310480-05	Water	October 17, 2023 12:20	10/17/2023 18:05

Origins Laboratory, Inc.

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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 - Huntsman G #13-10

**ORIGINS** LABORATORY, INC

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave  
 Telephone Number: 303-933-9499  
 Email Address: anewberry@eagle-env.com

Project Manager: Andrew Newberry  
 Project Name: Huntsman G #13-10  
 Project Number: [none]  
 Samples Collected By: Bill

of 1 page

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Groundwater	Soil	Air Summa #	
MW-01	10-17-23	11:00	1				X			
MW-02		11:00	1				X			
MW-03		11:00	1				X			
MW-04		12:00	1				X			
MW-05		12:00	1				X			

Reinquisitioned By: Blake Childs  
 Date: 10-17-23

Reinquisitioned By: [blank]  
 Date: [blank]

Received By: [blank]  
 Date: 10/17/23

Received By: [blank]  
 Date: [blank]

Time: 1805  
 Time: [blank]

Time: 1805  
 Time: [blank]

Temp Received: 1.1  
 Date Results Needed: Noble

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 - Huntsman G #13-10

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

**Sample Receipt Checklist**

Origins Work Order: B10180 Client: Eagle  
 Client Project ID: Huntsman G #13-10  
 Checklist Completed by: TJ STEVENS Shipped Via: TW  
 Date/time completed: 10/18/23 (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 / 1.4 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °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 <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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 10/19/23

Origins Laboratory, Inc.  
[Signature]

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Huntsman G #13-10

MW-01

10/17/2023 11:00:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310480-01 (Water)**

**Anions by IC 300.0**

Chloride	754	31.2	mg/L	125	B3J2710	ACC	10/27/2023	11/04/2023	
Sulfate	625	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2650	5.00	"	1	B3J2019	KRM	10/20/2023	10/20/2023	
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Jordan A. Bynon, Project Manager



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Wheat Ridge CO 80033

Andrew Newberry  
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Project: Noble - Huntsman G #13-10

MW-02

10/17/2023 11:20:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310480-02 (Water)

Anions by IC 300.0

Chloride	727	31.2	mg/L	125	B3J2710	ACC	10/27/2023	11/04/2023	
Sulfate	567	31.2	"	"	"	ACC	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2490	5.00	"	1	B3J2019	KRM	10/20/2023	10/20/2023	
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 Wheat Ridge CO 80033

Andrew Newberry  
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 Project: Noble - Huntsman G #13-10

MW-03

10/17/2023 11:40:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y310480-03 (Water)

**Anions by IC 300.0**

Chloride	755	31.2	mg/L	125	B3J2710	ACC	10/27/2023	11/04/2023	
Sulfate	449	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2490	5.00	"	1	B3J2019	KRM	10/20/2023	10/20/2023	
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 Project: Noble - Huntsman G #13-10

**MW-04**

**10/17/2023 12:00:00PM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y310480-04 (Water)**

**Anions by IC 300.0**

Chloride	763	31.2	mg/L	125	B3J2710	ACC	10/27/2023	11/04/2023	
Sulfate	573	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2570	5.00	"	1	B3J2019	KRM	10/20/2023	10/20/2023	
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**MW-05**

**10/17/2023 12:20:00PM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310480-05 (Water)**

**Anions by IC 300.0**

Chloride	639	31.2	mg/L	125	B3J2710	ACC	10/27/2023	11/04/2023	
Sulfate	451	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2120	5.00	"	1	B3J2019	KRM	10/20/2023	10/20/2023	
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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 B3J2019 - NO PREP**

**Blank (B3J2019-BLK1)** Prepared: 10/20/2023 Analyzed: 10/20/2023

Total Dissolved Solids	ND	5.00	mg/L							
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**LCS (B3J2019-BS1)** Prepared: 10/20/2023 Analyzed: 10/20/2023

Total Dissolved Solids	1010	5.00	mg/L	1010		99.6	90-110			
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**Duplicate (B3J2019-DUP1)** Source: Y310480-01 Prepared: 10/20/2023 Analyzed: 10/20/2023

Total Dissolved Solids	2640	5.00	mg/L		2650			0.303	10	
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**Batch B3J2710 - Filter .45um non acidified**

**Blank (B3J2710-BLK1)** Prepared: 10/27/2023 Analyzed: 11/06/2023

Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U

**LCS (B3J2710-BS1)** Prepared: 10/27/2023 Analyzed: 11/03/2023

Chloride	4.40	0.250	mg/L	4.00		110	90-110			
Sulfate	4.36	0.250	"	4.00		109	90-110			

**Matrix Spike (B3J2710-MS1)** Source: Y310505-01 Prepared: 10/27/2023 Analyzed: 11/03/2023

Chloride	834		mg/L	500	311	105	90-110			
Sulfate	621		"	500	87.0	107	90-110			

**Matrix Spike Dup (B3J2710-MSD1)** Source: Y310505-01 Prepared: 10/27/2023 Analyzed: 11/03/2023

Chloride	846		mg/L	500	311	107	90-110	1.37	5	
Sulfate	628		"	500	87.0	108	90-110	1.13	5	

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### Notes and Definitions

- U Sample is Non-Detect.
  - 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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