



January 02, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Abramson #5-23 Project Number - [none]

Attached are your analytical results for Noble - HSR - Abramson #5-23 received by Origins Laboratory, Inc. December 14, 2023. This project is associated with Origins project number Y312469-01.

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 - HSR - Abramson #5-23

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y312469-01	Water	December 14, 2023 14:08	12/14/2023 16:16
MW-02	Y312469-02	Water	December 14, 2023 14:22	12/14/2023 16:16
MW-03	Y312469-03	Water	December 14, 2023 14:36	12/14/2023 16:16
MW-04	Y312469-04	Water	December 14, 2023 14:48	12/14/2023 16:16
MW-05	Y312469-05	Water	December 14, 2023 15:00	12/14/2023 16:16

Origins Laboratory, Inc.

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

www.originslaboratory.com  
 page 1 of 1  
 Project Manager: Andrew Newberry  
 Project Name: HSR - Abramson #5-23  
 Project Number: [blank]  
 Samples Collected By: GK  
 Client: Eagle Environmental Consulting, LLC  
 Address: 8000 W 44th Ave  
 Wheat Ridge, CO 80033  
 Telephone Number: 303-443-0479  
 Email Address: andrew@originslab.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analyst	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air/Surface	Other			Grease
MW-01	12/11/23	1408	3	X				X				X	X	MDLs noted
MW-02		1413												
MW-03		1436												
MW-04		1448												
MW-05		1500												

  

Relinquished By: <i>[Signature]</i>	Date: 12/11/23	Time: 1616	Received By: <i>[Signature]</i>	Date: 12/11/23	Time: 1110
Relinquished By: <i>[Signature]</i>	Date: 12/11/23	Time: 1616	Received By: <i>[Signature]</i>	Date: 12/11/23	Time: 1110

Temp Received: *[Signature]*  
 Date Results Needed: *[Signature]*

Origins Laboratory, Inc.  
*[Signature]*

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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 - HSR - Abramson #5-23

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: V312469

Client: Eagle  
Client Project ID: HSR Abramson 5-23

Checklist Completed by: JG/EHS

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

Date/time completed: 12/15/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 60 °C / 1 °C / 1 °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 (> 1/2 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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> (10% v/v) or 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>NC</u>
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: 12/18/23

Origins Laboratory, Inc.

[Signature]

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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
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Andrew Newberry  
Project Number: [none]  
Project: Noble - HSR - Abramson #5-23

MW-01

12/14/2023 2:08:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y312469-01 (Water)

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L1607	JSM	12/16/2023	12/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.2 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	98.4 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.1 %		70-130		"	"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President



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**MW-02**

**12/14/2023 2:22:00PM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312469-02 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L1607	JSM	12/16/2023	12/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.4 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	97.6 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.2 %		70-130		"	"	"	"	

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 Project: Noble - HSR - Abramson #5-23

MW-03

12/14/2023 2:36:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y312469-03 (Water)

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L1607	JSM	12/16/2023	12/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130	"	"	"	"	"	"	"
Surrogate: Toluene-d8	98.5 %	70-130	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	91.4 %	70-130	"	"	"	"	"	"	"

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 Project: Noble - HSR - Abramson #5-23

MW-04

12/14/2023 2:48:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y312469-04 (Water)

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L1607	JSM	12/16/2023	12/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.3 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	97.6 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.8 %		70-130		"	"	"	"	

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**MW-05**

**12/14/2023 3:00:00PM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312469-05 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L1607	JSM	12/16/2023	12/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130	"	"	"	"	"	"	"
Surrogate: Toluene-d8	97.9 %	70-130	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	90.8 %	70-130	"	"	"	"	"	"	"

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3L1607 - EPA 5030B (Water)**

**Blank (B3L1607-BLK1)**

Prepared: 12/16/2023 Analyzed: 12/20/2023

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.8	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3L1607 - EPA 5030B (Water)**

**LCS (B3L1607-BS1)**

Prepared: 12/16/2023 Analyzed: 12/20/2023

1,2,4-Trimethylbenzene	52.1	2.00	ug/L	50.0	104	70-130				
1,3,5-Trimethylbenzene	51.7	2.00	"	50.0	103	70-130				
Benzene	50.9	1.00	"	50.0	102	70-130				
Ethylbenzene	48.6	1.00	"	50.0	97.2	70-130				
m,p-Xylene	103	2.00	"	100	103	70-130				
Naphthalene	54.7	2.00	"	50.0	109	70-130				
o-Xylene	49.9	1.00	"	50.0	99.9	70-130				
Toluene	49.1	1.00	"	50.0	98.2	70-130				
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5	89.5	70-130				
Surrogate: Toluene-d8	60		"	62.5	95.8	70-130				
Surrogate: 4-Bromofluorobenzene	60		"	62.5	95.3	70-130				

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3L1607 - EPA 5030B (Water)

Matrix Spike (B3L1607-MS1)

Source: Y312468-01

Prepared: 12/16/2023 Analyzed: 12/20/2023

1,2,4-Trimethylbenzene	51.2	2.00	ug/L	50.0	ND	102	70-130			
1,3,5-Trimethylbenzene	51.1	2.00	"	50.0	ND	102	70-130			
Benzene	56.1	1.00	"	50.0	ND	112	70-130			
Ethylbenzene	48.4	1.00	"	50.0	ND	96.8	70-130			
m,p-Xylene	98.0	2.00	"	100	ND	98.0	70-130			
Naphthalene	51.4	2.00	"	50.0	ND	103	70-130			
o-Xylene	45.2	1.00	"	50.0	ND	90.4	70-130			
Toluene	50.6	1.00	"	50.0	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.2	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3L1607 - EPA 5030B (Water)

Matrix Spike Dup (B3L1607-MSD1)

Source: Y312468-01

Prepared: 12/16/2023 Analyzed: 12/20/2023

1,2,4-Trimethylbenzene	50.7	2.00	ug/L	50.0	ND	101	70-130	1.02	20	
1,3,5-Trimethylbenzene	50.4	2.00	"	50.0	ND	101	70-130	1.34	20	
Benzene	55.0	1.00	"	50.0	ND	110	70-130	1.91	20	
Ethylbenzene	48.3	1.00	"	50.0	ND	96.5	70-130	0.310	20	
m,p-Xylene	97.9	2.00	"	100	ND	97.9	70-130	0.184	20	
Naphthalene	52.4	2.00	"	50.0	ND	105	70-130	2.04	20	
o-Xylene	45.0	1.00	"	50.0	ND	90.0	70-130	0.444	20	
Toluene	49.7	1.00	"	50.0	ND	99.5	70-130	1.69	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.0	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	70-130			

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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.

Origins Laboratory, Inc.

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