



May 18, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

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. May 05, 2022. This project is associated with Origins project number Y205141-01.

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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - HSR - Abramson #5-23

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y205141-01	Soil	May 5, 2022 11:22	05/05/2022 13:25
WH-SS-02@5'	Y205141-02	Soil	May 5, 2022 11:24	05/05/2022 13:25
WH-SS-03@5'	Y205141-03	Soil	May 5, 2022 11:26	05/05/2022 13:25
WH-SS-04@5'	Y205141-04	Soil	May 5, 2022 11:28	05/05/2022 13:25
WH-FS-01@6'	Y205141-05	Soil	May 5, 2022 11:30	05/05/2022 13:25

Origins Laboratory, Inc.

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# ORIGINS LABORATORY, INC

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

www.originslab.com  
 page 1 of 1  
**ORIGINS LABORATORY, INC**  
 Project Manager: M. Eckert III  
 Project Name: HSR - Abramson #5-23  
 Project Number:                       
 Samples Collected By:                       
 Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave  
 Telephone Number: 303.433.1522  
 Email Address: m.eckert@originslab.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions	Relinquished By	Date	Time	Received By	Date	Time	Turnaround Time
MP-53-0105	05-05-2025	11:24	7	None	Soil	XXXXXX	See instructions		05-05-2025	11:24		05-05-2025		24 Hr
MP-53-0105	05-05-2025	11:24	1	None	Soil	XXXXXX	See instructions		05-05-2025	11:24		05-05-2025		24 Hr
MP-53-0105	05-05-2025	11:24	1	None	Soil	XXXXXX	See instructions		05-05-2025	11:24		05-05-2025		24 Hr
MP-53-0105	05-05-2025	11:24	1	None	Soil	XXXXXX	See instructions		05-05-2025	11:24		05-05-2025		24 Hr
MP-53-0106	05-05-2025	11:24	1	None	Soil	XXXXXX	See instructions		05-05-2025	11:24		05-05-2025		24 Hr

Date Results Needed: 05/07/2025  
 Temp Received: 1.6  
 Relinquished By:                       
 Date: 05-05-2025  
 Time: 11:24  
 Received By:                       
 Date: 05-05-2025  
 Time: 11:24

Origins Laboratory, Inc.

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# ORIGINS

LABORATORY, INC

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

Martin C Eckert III  
 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: Y205141 Client: Eagle  
 Client Project ID: Abramson 5-23


Checklist Completed by: SG Shipped Via: HD  
 Date/time completed: 5/6/22 (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, 6 °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: TO04

Requirement Description	Yes	No	N/A	Comments (if any)
If samples requiring cooling, was the temperature between 0°C to ± 6°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) (preservation is not confirmed for subcontracted analyses in order to ensure sample integrity) (pH < 2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with Na <sub>2</sub> CO <sub>3</sub> /NaOH, ZnAc <sup>+</sup> /NaOH)			<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.

Reviewed by (Project Manager): AB Date/Time Reviewed: 5/8/22

Origins Laboratory, Inc.  
  
 Jordan A. Bynon For Noelle Doyle Mathis, President

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**WH-SS-01@5'**  
**5/5/2022 11:22:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205141-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.181		0.101	mg/L	1	B2E0907	05/09/2022	05/10/2022	
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**DRO/ORO by EPA 8015D**


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E0909	05/09/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 97.6% 50-150 " " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0626	05/06/2022	05/10/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104% 70-130 " " " "

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WH-SS-01@5'  
 5/5/2022 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205141-01 (Soil)**

**GBTEX+TMBs by 8260D**


Surrogate: Toluene-d8	94.8 %		70-130			B2E06 26	05/06/2022	05/10/2022	
Surrogate: 4-Bromofluorobenzene	97.0 %		70-130			"	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	1.40		0.499	meq/L	10	[CALC]	05/09/2022	05/10/2022	
Magnesium	ND		0.823	"	"	"	"	"	"
Sodium	1.51		0.435	"	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L615168	05/10/2022	05/11/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	"

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**WH-SS-01@5'**  
**5/5/2022 11:22:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205141-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L615168	05/10/2022	05/11/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	67.2%		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	53.5%		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	64.1%		29-110			"	"	"	"

**pH in Soil by 9045D**


pH	8.21			pH Units	1	B2E0903	05/09/2022	05/10/2022	
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**SAR by 20B Saturated Paste**

SAR	1.52			SAR	1	B2E0902	05/09/2022	05/10/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.430		0.00500	mmhos/cm	1	B2E0903	05/09/2022	05/10/2022	
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**WH-SS-02@5'**  
**5/5/2022 11:24:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205141-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.641		0.100	mg/L	1	B2E0907	05/09/2022	05/10/2022	
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**DRO/ORO by EPA 8015D**


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E0909	05/09/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.3 %		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0626	05/06/2022	05/11/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130	"	"	"	"	"	
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**WH-SS-02@5'**  
**5/5/2022 11:24:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205141-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	99.0 %		70-130			B2E06 26	05/06/2022	05/11/2022	
Surrogate: 4-Bromofluorobenzene	95.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.52		0.499	meq/L	10	[CALC]	05/09/2022	05/10/2022	
Magnesium	1.18		0.823	"	"	"	"	"	
Sodium	2.81		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L615168	05/10/2022	05/11/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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**WH-SS-02@5'**  
**5/5/2022 11:24:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205141-02 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L615168	05/10/2022	05/11/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	64.8 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	53.3 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	60.2 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	8.18			pH Units	1	B2E0903	05/09/2022	05/10/2022	
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**SAR by 20B Saturated Paste**

SAR	2.07			SAR	1	B2E0902	05/09/2022	05/10/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.817		0.00500	mmhos/cm	1	B2E0903	05/09/2022	05/10/2022	
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**WH-SS-03@5'**  
**5/5/2022 11:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205141-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.161		0.101	mg/L	1	B2E0907	05/09/2022	05/10/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E0909	05/09/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.9% 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0626	05/06/2022	05/11/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.94		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 107% 70-130 " " "  
 Surrogate: Toluene-d8 99.4% 70-130 " " "

Origins Laboratory, Inc.



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 Project: Noble - HSR - Abramson #5-23

**WH-SS-03@5'**  
**5/5/2022 11:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205141-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	91.5 %		70-130			B2E06 26	05/06/2022	05/11/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.99		0.499	meq/L	10	[CALC]	05/09/2022	05/10/2022	
Magnesium	1.70		0.823	"	"	"	"	"	
Sodium	2.58		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L615314	05/10/2022	05/11/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.0012	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000446	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000791	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0136	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 Project: Noble - HSR - Abramson #5-23

**WH-SS-03@5'**  
**5/5/2022 11:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205141-03 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L615314	05/10/2022	05/11/2022	
Naphthalene	0.000745	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.000923	0.000643	0.00067	"	"	"	"	"	B

Surrogate: 2-Fluorobiphenyl	50.2 %		33-115						
Surrogate: 4-Terphenyl-d14	66.4 %		33-122						
Surrogate: Nitrobenzene-d5	58.3 %		29-110						

**pH in Soil by 9045D**

pH	8.19			pH Units	1	B2E0903	05/09/2022	05/10/2022	
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**SAR by 20B Saturated Paste**

SAR	1.68			SAR	1	B2E0902	05/09/2022	05/10/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.865		0.00500	mmhos/cm	1	B2E0903	05/09/2022	05/10/2022	
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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**WH-SS-04@5'**  
**5/5/2022 11:28:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205141-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.306		0.102	mg/L	1	B2E0907	05/09/2022	05/10/2022	
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**DRO/ORO by EPA 8015D**


Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E0909	05/09/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.4 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0626	05/06/2022	05/11/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.202		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 99.8 % 70-130 " " "  
 Surrogate: Toluene-d8 98.5 % 70-130 " " "

Origins Laboratory, Inc.  


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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

WH-SS-04@5'  
 5/5/2022 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205141-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	96.2 %		70-130			B2E06 26	05/06/2022	05/11/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.81		0.499	meq/L	10	[CALC]	05/09/2022	05/10/2022	
Magnesium	0.831		0.823	"	"	"	"	"	
Sodium	2.76		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L615314	05/10/2022	05/11/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000373	0.000286	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**WH-SS-04@5'**  
**5/5/2022 11:28:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205141-04 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L615314	05/10/2022	05/11/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.7 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	73.9 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	60.7 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	8.16			pH Units	1	B2E0903	05/09/2022	05/10/2022	
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**SAR by 20B Saturated Paste**

SAR	2.05			SAR	1	B2E0902	05/09/2022	05/10/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.822		0.00500	mmhos/cm	1	B2E0903	05/09/2022	05/10/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**WH-FS-01@6'**  
**5/5/2022 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205141-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.197		0.0984	mg/L	1	B2E0907	05/09/2022	05/10/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	336		25.0	mg/kg	1	B2E0909	05/09/2022	05/10/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.9%		50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E0626	05/06/2022	05/11/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	27.6		5.00	"	25	"	"	05/11/2022	

Surrogate: 1,2-Dichloroethane-d4	105%		70-130	"	"	"	"	05/11/2022	
Surrogate: Toluene-d8	102%		70-130	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

WH-FS-01@6'  
 5/5/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205141-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	71.8 %		70-130			B2E06 26	05/06/2022	05/11/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.09		0.499	meq/L	10	[CALC]	05/09/2022	05/10/2022	
Magnesium	2.82		0.823	"	"	"	"	"	
Sodium	1.83		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00201	0.000364	0.00067	mg/Kg	1	L615314	05/10/2022	05/11/2022	
2-Methylnaphthalene	0.00371	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.00533	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00293	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00079	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000609	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.005	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000811	0.000394	0.00067	"	"	"	"	"	B
Fluorene	0.0605	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**WH-FS-01@6'**  
**5/5/2022 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205141-05 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.00657	0.000484	0.00067	mg/Kg	1	L615314	05/10/2022	05/11/2022	
Pyrene	0.00364	0.000643	0.00067	"	"	"	"	"	B

Surrogate: 2-Fluorobiphenyl	54.4 %		33-115						
Surrogate: 4-Terphenyl-d14	71.2 %		33-122						
Surrogate: Nitrobenzene-d5	60.1 %		29-110						

**pH in Soil by 9045D**

pH	9.34			pH Units	1	B2E0903	05/09/2022	05/10/2022	
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**SAR by 20B Saturated Paste**

SAR	1.31			SAR	1	B2E0902	05/09/2022	05/10/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.562		0.00500	mmhos/cm	1	B2E0903	05/09/2022	05/10/2022	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**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 B2E0626 - EPA 5030 (soil)

Blank (B2E0626-BLK1)

Prepared: 05/06/2022 Analyzed: 05/10/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.0	70-130			

Origins Laboratory, Inc.

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**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 B2E0626 - EPA 5030 (soil)

LCS (B2E0626-BS1)

Prepared: 05/06/2022 Analyzed: 05/10/2022

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.0998	0.00200	"	0.100		99.8	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0997	0.00200	"	0.100		99.7	70-130			
Naphthalene	0.102	0.0100	"	0.100		102	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.0990	0.00200	"	0.100		99.0	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**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 B2E0626 - EPA 5030 (soil)

Matrix Spike (B2E0626-MS1)

Source: Y205139-01

Prepared: 05/06/2022 Analyzed: 05/10/2022

1,2,4-Trimethylbenzene	0.0849	0.00200	mg/kg	0.100	ND	84.9	70-130			
1,3,5-Trimethylbenzene	0.0847	0.00200	"	0.100	ND	84.7	70-130			
Benzene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
Ethylbenzene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
Naphthalene	0.0853	0.0100	"	0.100	ND	85.3	70-130			
Toluene	0.0972	0.00200	"	0.100	ND	97.2	70-130			
o-Xylene	0.0878	0.00200	"	0.100	ND	87.8	70-130			
m,p-Xylene	0.174	0.00400	"	0.200	ND	87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**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 B2E0626 - EPA 5030 (soil)

Matrix Spike Dup (B2E0626-MSD1)

Source: Y205139-01

Prepared: 05/06/2022 Analyzed: 05/10/2022

1,2,4-Trimethylbenzene	0.0869	0.00200	mg/kg	0.100	ND	86.9	70-130	2.35	20	
1,3,5-Trimethylbenzene	0.0860	0.00200	"	0.100	ND	86.0	70-130	1.57	20	
Benzene	0.0964	0.00200	"	0.100	ND	96.4	70-130	0.855	20	
Ethylbenzene	0.0893	0.00200	"	0.100	ND	89.3	70-130	1.81	20	
Naphthalene	0.0935	0.0100	"	0.100	ND	93.5	70-130	9.24	20	
Toluene	0.0962	0.00200	"	0.100	ND	96.2	70-130	1.03	20	
o-Xylene	0.0891	0.00200	"	0.100	ND	89.1	70-130	1.40	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	88.8	70-130	2.06	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**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 B2E0909 - EPA 3550B

Blank (B2E0909-BLK1)

Prepared: 05/09/2022 Analyzed: 05/09/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		94.8	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**Extractable Petroleum Hydrocarbons by 8015D - 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 B2E0909 - EPA 3550B

LCS (B2E0909-BS1)

Prepared: 05/09/2022 Analyzed: 05/09/2022

Diesel (C10-C28)	882	50.0	mg/kg	1000		88.2	70-130			
Residual Range Organics (C28-C40)	994	200	"	1000		99.4	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.5	50-150			

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**Extractable Petroleum Hydrocarbons by 8015D - 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 B2E0909 - EPA 3550B**

**Matrix Spike (B2E0909-MS1)**

**Source: Y205098-01**

Prepared: 05/09/2022 Analyzed: 05/09/2022

Diesel (C10-C28)	976	50.0	mg/kg	1000	ND	97.6	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.9	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**Extractable Petroleum Hydrocarbons by 8015D - 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 B2E0909 - EPA 3550B

Matrix Spike Dup (B2E0909-MSD1)

Source: Y205098-01

Prepared: 05/09/2022 Analyzed: 05/09/2022

Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130	9.53	35	
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130	2.86	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**Extractable Petroleum Hydrocarbons by 8015D - 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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**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 B2E0903 - NO PREP**

**Blank (B2E0903-BLK1)**

Prepared: 05/09/2022 Analyzed: 05/10/2022

Specific Conductance (EC) 0.00160 0.0300 mmhos/cm  
 pH 0.00 pH Units

**Duplicate (B2E0903-DUP1)**

**Source: Y205136-10**

Prepared: 05/09/2022 Analyzed: 05/10/2022

Specific Conductance (EC) 0.269 0.0300 mmhos/cm 0.242 10.5 25  
 pH 8.45 pH Units 8.52 0.825 25

Origins Laboratory, Inc.

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615314 - 3550B**

**MSD (L 86749-MSD-L615314)**

**Source: 86749**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Fluoranthene	0.118	0.000394	mg/Kg	0.163	<0.000394	72.3	30-130	17.1	30	
Pyrene	0.118	0.000643	"	0.163	<0.000643	72.3	30-130	17.4	30	
Naphthalene	0.107	0.000484	"	0.163	<0.000484	65.6	30-130	20.7	30	
Fluorene	0.113	0.000286	"	0.163	<0.000286	69.3	30-130	16.3	30	
2-Methylnaphthalene	0.104	0.000645	"	0.163	0.000702	63.3	30-130	20.8	30	
Dibenz(a,h)anthracene	0.127	0.000614	"	0.163	<0.000614	77.9	30-130	29.3	30	
Chrysene	0.127	0.000624	"	0.163	<0.000624	77.9	30-130	21.8	30	
Benzo(k)fluoranthene	0.114	0.000437	"	0.163	<0.000437	69.9	30-130	27	30	
1-Methylnaphthalene	0.104	0.000364	"	0.163	0.00039	63.5	30-130	18.8	30	
Benzo(a)pyrene	0.127	0.000468	"	0.163	<0.000468	77.9	30-130	18	30	
Benzo(a)anthracene	0.125	0.000493	"	0.163	<0.000493	76.6	30-130	21.2	30	
Anthracene	0.12	0.000334	"	0.163	<0.000334	73.6	30-130	22.8	30	
Acenaphthene	0.109	0.000304	"	0.163	<0.000304	66.8	30-130	18.5	30	
Benzo(b)fluoranthene	0.0794	0.000585	"	0.163	<0.000585	48.7	30-130	9	30	
Indeno(1,2,3-cd)pyrene	0.102	0.000627	"	0.163	<0.000627	62.5	30-130	32	30	
Surrogate: Nitrobenzene-d5	65.9		"	0.326	210	65.9	29-110			
Surrogate: 2-Fluorobiphenyl	60.7		"	0.326	195	60.7	33-115			
Surrogate: 4-Terphenyl-d14	76.6		"	0.326	248	76.6	33-122			

**MS (L 86749-MS-L615314)**

**Source: 86749**

Prepared: 05/10/2022 Analyzed: 05/11/2022

2-Methylnaphthalene	0.0844	0.000645	mg/Kg	0.166	0.000702	50.4	30-130			
Dibenz(a,h)anthracene	0.0945	0.000614	"	0.166	<0.000614	56.9	30-130			
Chrysene	0.102	0.000624	"	0.166	<0.000624	61.4	30-130			
Benzo(k)fluoranthene	0.0868	0.000437	"	0.166	<0.000437	52.2	30-130			
Benzo(b)fluoranthene	0.0725	0.000585	"	0.166	<0.000585	43.6	30-130			
Benzo(a)pyrene	0.106	0.000468	"	0.166	<0.000468	63.8	30-130			
Benzo(a)anthracene	0.101	0.000493	"	0.166	<0.000493	60.8	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615314 - 3550B**

**MS (L 86749-MS-L615314)**

**Source: 86749**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Anthracene	0.0954	0.000334	mg/Kg	0.166	<0.000334	57.4	30-130			
Acenaphthene	0.0905	0.000304	"	0.166	<0.000304	54.5	30-130			
Fluoranthene	0.0994	0.000394	"	0.166	<0.000394	59.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0738	0.000627	"	0.166	<0.000627	44.4	30-130			
Naphthalene	0.0869	0.000484	"	0.166	<0.000484	52.3	30-130			
Pyrene	0.0991	0.000643	"	0.166	<0.000643	59.6	30-130			
1-Methylnaphthalene	0.0861	0.000364	"	0.166	0.00039	51.6	30-130			
Fluorene	0.0959	0.000286	"	0.166	<0.000286	57.7	30-130			
Surrogate: 2-Fluorobiphenyl	53.1		"	0.331	195	53.1	33-115			
Surrogate: 4-Terphenyl-d14	67.3		"	0.331	248	67.3	33-122			
Surrogate: Nitrobenzene-d5	59.5		"	0.331	210	59.5	29-110			

**LCS (LCS-L615314)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Fluoranthene	0.108	0.000394	mg/Kg	0.167		64.6	30-130			
1-Methylnaphthalene	0.0927	0.000364	"	0.167		55.5	30-130			
Anthracene	0.103	0.000334	"	0.167		61.6	30-130			
Benzo(a)anthracene	0.111	0.000493	"	0.167		66.4	30-130			
Benzo(a)pyrene	0.117	0.000468	"	0.167		70	30-130			
Naphthalene	0.0945	0.000484	"	0.167		56.5	30-130			
Pyrene	0.108	0.000643	"	0.167		64.6	30-130			
Fluorene	0.0995	0.000286	"	0.167		59.5	30-130			
2-Methylnaphthalene	0.0927	0.000645	"	0.167		55.5	30-130			
Dibenz(a,h)anthracene	0.112	0.000614	"	0.167		67	30-130			
Chrysene	0.114	0.000624	"	0.167		68.2	30-130			
Benzo(b)fluoranthene	0.0838	0.000585	"	0.167		50.1	30-130			
Benzo(k)fluoranthene	0.0989	0.000437	"	0.167		59.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0879	0.000627	"	0.167		52.6	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615314 - 3550B**

**LCS (LCS-L615314)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Acenaphthene	0.0952	0.000304	mg/Kg	0.167	57	30-130				
Surrogate: 2-Fluorobiphenyl	57.9		"	0.333	57.9	33-115				
Surrogate: 4-Terphenyl-d14	73.5		"	0.333	73.5	33-122				
Surrogate: Nitrobenzene-d5	66		"	0.333	66	29-110				

**LRB (LRB-L615314)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Benzo(k)fluoranthene	0.00049	0.00067	mg/Kg							J
Indeno(1,2,3-cd)pyrene	ND	0.00067	"							
Naphthalene	ND	0.00067	"							
1-Methylnaphthalene	ND	0.00067	"							
Fluoranthene	0.00108	0.00067	"							*
Dibenz(a,h)anthracene	ND	0.00067	"							
Chrysene	ND	0.00067	"							
Fluorene	ND	0.00067	"							
Benzo(b)fluoranthene	ND	0.00067	"							
Benzo(a)pyrene	ND	0.00067	"							
Benzo(a)anthracene	ND	0.00067	"							
Anthracene	ND	0.00067	"							
Acenaphthene	ND	0.00067	"							
2-Methylnaphthalene	ND	0.00067	"							
Pyrene	0.00123	0.00067	"							*
Surrogate: Nitrobenzene-d5	72.9		"	0.333	72.9	29-110				
Surrogate: 4-Terphenyl-d14	81		"	0.333	81	33-122				
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333	61.2	33-115				

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615168 - 3550B**

**MSD (L 85975-MSD-L615168)**

**Source: 85975**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Benzo(b)fluoranthene	0.12	0.000585	mg/Kg	0.165	<0.000585	72.7	30-130	0.8	30	
Fluoranthene	0.158	0.000394	"	0.165	<0.000394	95.7	30-130	0.6	30	
Chrysene	0.123	0.000624	"	0.165	<0.000624	74.5	30-130	0	30	
Benzo(k)fluoranthene	0.102	0.000437	"	0.165	<0.000437	61.8	30-130	3.8	30	
Benzo(a)pyrene	0.133	0.000468	"	0.165	<0.000468	80.6	30-130	0.7	30	
Benzo(a)anthracene	0.136	0.000493	"	0.165	<0.000493	82.4	30-130	0.7	30	
Anthracene	0.148	0.000334	"	0.165	<0.000334	89.6	30-130	1.3	30	
Acenaphthene	0.134	0.000304	"	0.165	<0.000304	81.2	30-130	2.9	30	
2-Methylnaphthalene	0.106	0.000645	"	0.165	<0.000645	64.2	30-130	1.8	30	
1-Methylnaphthalene	0.105	0.000364	"	0.165	<0.000364	63.6	30-130	2.8	30	
Fluorene	0.127	0.000286	"	0.165	<0.000286	76.9	30-130	1.5	30	
Naphthalene	0.103	0.000484	"	0.165	<0.000484	62.4	30-130	1.9	30	
Pyrene	0.155	0.000643	"	0.165	<0.000643	93.9	30-130	0	30	
Dibenz(a,h)anthracene	0.136	0.000614	"	0.165	<0.000614	82.4	30-130	13.6	30	
Indeno(1,2,3-cd)pyrene	0.144	0.000627	"	0.165	<0.000627	87.2	30-130	11.1	30	
Surrogate: 4-Terphenyl-d14	53.9		"	0.33	168	53.9	33-122			
Surrogate: 2-Fluorobiphenyl	60.9		"	0.33	192	60.9	33-115			
Surrogate: Nitrobenzene-d5	55.1		"	0.33	187	55.1	29-110			

**MS (L 85975-MS-L615168)**

**Source: 85975**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Pyrene	0.155	0.000643	mg/Kg	0.167	<0.000643	92.8	30-130			
Naphthalene	0.105	0.000484	"	0.167	<0.000484	62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.161	0.000627	"	0.167	<0.000627	96.4	30-130			
Fluorene	0.129	0.000286	"	0.167	<0.000286	77.2	30-130			
Fluoranthene	0.159	0.000394	"	0.167	<0.000394	95.2	30-130			
Dibenz(a,h)anthracene	0.156	0.000614	"	0.167	<0.000614	93.4	30-130			
Chrysene	0.123	0.000624	"	0.167	<0.000624	73.6	30-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615168 - 3550B**

**MS (L 85975-MS-L615168)**

**Source: 85975**

Prepared: 05/10/2022 Analyzed: 05/11/2022

2-Methylnaphthalene	0.108	0.000645	mg/Kg	0.167	<0.000645	64.6	30-130			
Benzo(b)fluoranthene	0.119	0.000585	"	0.167	<0.000585	71.2	30-130			
Benzo(a)pyrene	0.132	0.000468	"	0.167	<0.000468	79	30-130			
Benzo(a)anthracene	0.135	0.000493	"	0.167	<0.000493	80.8	30-130			
Anthracene	0.15	0.000334	"	0.167	<0.000334	89.8	30-130			
Acenaphthene	0.138	0.000304	"	0.167	<0.000304	82.6	30-130			
1-Methylnaphthalene	0.108	0.000364	"	0.167	<0.000364	64.6	30-130			
Benzo(k)fluoranthene	0.106	0.000437	"	0.167	<0.000437	63.4	30-130			
Surrogate: Nitrobenzene-d5	56.4		"	0.333	187	56.4	29-110			
Surrogate: 4-Terphenyl-d14	54.3		"	0.333	168	54.3	33-122			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333	192	62.7	33-115			

**LCS (LCS-L615168)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Benzo(b)fluoranthene	0.108	0.000585	mg/Kg	0.167		64.6	30-130			
Benzo(k)fluoranthene	0.0858	0.000437	"	0.167		51.3	30-130			
Chrysene	0.109	0.000624	"	0.167		65.2	30-130			
Dibenz(a,h)anthracene	0.128	0.000614	"	0.167		76.6	30-130			
Fluoranthene	0.135	0.000394	"	0.167		80.8	30-130			
Benzo(a)pyrene	0.118	0.000468	"	0.167		70.6	30-130			
Indeno(1,2,3-cd)pyrene	0.136	0.000627	"	0.167		81.4	30-130			
Naphthalene	0.0915	0.000484	"	0.167		54.7	30-130			
Fluorene	0.11	0.000286	"	0.167		65.8	30-130			
Benzo(a)anthracene	0.118	0.000493	"	0.167		70.6	30-130			
Anthracene	0.126	0.000334	"	0.167		75.4	30-130			
Pyrene	0.133	0.000643	"	0.167		79.6	30-130			
2-Methylnaphthalene	0.0946	0.000645	"	0.167		56.6	30-130			
1-Methylnaphthalene	0.0945	0.000364	"	0.167		56.5	30-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L615168 - 3550B**

**LCS (LCS-L615168)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Acenaphthene	0.119	0.000304	mg/Kg	0.167		71.2	30-130			
Surrogate: 4-Terphenyl-d14	54.9		"	0.333		54.9	33-122			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333		69.9	33-115			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			

**LRB (LRB-L615168)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

Anthracene	ND	0.00067	mg/Kg				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	68.7		"	0.333		68.7	33-115			
Surrogate: 4-Terphenyl-d14	54.6		"	0.333		54.6	33-122			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - HSR - Abramson #5-23

### Notes and Definitions

- U Sample is Non-Detect.
  - J Estimated Value. Analyte below reported quantitation limit.
  - B Analyte detected in associated method blank.
  - \* QC Failure
  - 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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