



August 09, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Brown USX AA 03-23 Project Number - [none]

Attached are your analytical results for Noble - Brown USX AA 03-23 received by Origins Laboratory, Inc. July 27, 2023. This project is associated with Origins project number Y307619-01.

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



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Brown USX AA 03-23

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@7'	Y307619-01	Soil	July 27, 2023 14:05	07/27/2023 17:45
WH-SS-02@7'	Y307619-02	Soil	July 27, 2023 14:07	07/27/2023 17:45
WH-SS-03@7'	Y307619-03	Soil	July 27, 2023 14:09	07/27/2023 17:45
WH-SS-04@7'	Y307619-04	Soil	July 27, 2023 14:11	07/27/2023 17:45
WH-FS-01@8'	Y307619-05	Soil	July 27, 2023 14:15	07/27/2023 17:45

Origins Laboratory, Inc.



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# ORIGINS

LABORATORY, INC

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y307619

Client: Eagle

Client Project ID: Brown USX AA 03-23

Checklist Completed by: JG/RS

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

Date/time completed: 7/28/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 15.0 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C


Thermometer ID: T604

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"/>		SD
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) <i>(preservation is not confirmed for subcontracted analyses in order to insure sample integrity)</i> (pH > 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+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) [Signature]

Date/Time Reviewed 7/31/23

Origins Laboratory, Inc.  


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Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-01@7'**  
**7/27/2023 2:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.649		0.0980	mg/L	1	B3G2906	07/29/2023	08/01/2023	
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**DRO/ORO by EPA 8015D**


Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G2817	07/28/2023	07/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.3 %		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0222	08/02/2023	08/03/2023	U
1,3,5-Trimethylbenzene	0.00218		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00740		0.00200	"	"	"	"	"	
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.00638		0.00200	"	"	"	"	"	
Xylenes, total	0.0136		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %		70-130	"	"	"	"	"	
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 Project: Noble - Brown USX AA 03-23

WH-SS-01@7'  
 7/27/2023 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.4 %		70-130			B3H02 22	08/02/2023	08/03/2023	
Surrogate: 4-Bromofluorobenzene	95.5 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.81		0.499	meq/L	10	[CALC]	07/29/2023	08/01/2023	
Magnesium	1.12		0.823	"	"	"	"	"	
Sodium	2.80		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695982	08/01/2023	08/01/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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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**7/27/2023 2:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y307619-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695982	08/01/2023	08/01/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.6 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	62.2 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	48.6 %		29-110	"	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.19			pH Units	1	B3G2909	07/29/2023	08/01/2023	
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**SAR by 20B Saturated Paste**

SAR	2.00			SAR	1	B3G2903	07/29/2023	08/01/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.736		0.00500	mmhos/cm	1	B3G2909	07/29/2023	08/01/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	7.79		0.0963	mg/kg	10	B3G2816	07/28/2023	07/31/2023	
Barium	118		9.63	"	"	"	"	"	"

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**WH-SS-01@7'**  
**7/27/2023 2:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-01 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.415		0.0963	mg/kg	10	B3G2816	07/28/2023	07/31/2023	
Copper	12.3		9.63	"	"	"	"	"	
Lead	12.1		9.63	"	"	"	"	"	
Nickel	15.8		9.63	"	"	"	"	"	
Selenium	0.243		0.0963	"	"	"	"	"	
Silver	ND		0.0963	"	"	"	"	"	
Zinc	ND		96.3	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L696251	07/27/2023	08/02/2023	
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**WH-SS-02@7'**  
**7/27/2023 2:07:00PM**

**Origins Laboratory, Inc.**  
**Y307619-02 (Soil)**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.578		0.101	mg/L	1	B3G2906	07/29/2023	08/01/2023	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G2817	07/28/2023	07/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	84.0 %		50-150	"	"	"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0222	08/02/2023	08/03/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00594		0.00200	"	"	"	"	"	
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.00436		0.00200	"	"	"	"	"	
Xylenes, total	0.0107		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	123 %		70-130	"	"	"	"	"	



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-02@7'**  
**7/27/2023 2:07:00PM**

**Origins Laboratory, Inc.**  
**Y307619-02 (Soil)**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.6 %		70-130			B3H02 22	08/02/2023	08/03/2023	
Surrogate: 4-Bromofluorobenzene	95.6 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	27.1		0.499	meq/L	10	[CALC]	07/29/2023	08/01/2023	
Magnesium	8.19		0.823	"	"	"	"	"	
Sodium	6.06		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695982	08/01/2023	08/01/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-02@7'**  
**7/27/2023 2:07:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y307619-02 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695982	08/01/2023	08/01/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.5 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	72.6 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	60.5 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	7.87			pH Units	1	B3G2909	07/29/2023	08/01/2023	
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**SAR by 20B Saturated Paste**

SAR	1.44			SAR	1	B3G2903	07/29/2023	08/01/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.06		0.00500	mmhos/cm	1	B3G2909	07/29/2023	08/01/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	5.49		0.0945	mg/kg	10	B3G2816	07/28/2023	07/31/2023	
Barium	104		9.45	"	"	"	"	"	"

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 Project: Noble - Brown USX AA 03-23

**WH-SS-02@7'**  
**7/27/2023 2:07:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-02 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.263		0.0945	mg/kg	10	B3G2816	07/28/2023	07/31/2023	
Copper	11.6		9.45	"	"	"	"	"	
Lead	11.8		9.45	"	"	"	"	"	
Nickel	12.3		9.45	"	"	"	"	"	
Selenium	0.151		0.0945	"	"	"	"	"	
Silver	ND		0.0945	"	"	"	"	"	
Zinc	ND		94.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L696251	07/27/2023	08/02/2023	
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-03@7'**  
**7/27/2023 2:09:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.289		0.100	mg/L	1	B3G2906	07/29/2023	08/01/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G2817	07/28/2023	07/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.2 %		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0222	08/02/2023	08/03/2023	U
1,3,5-Trimethylbenzene	0.00246		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00506		0.00200	"	"	"	"	"	
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00692		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130	"	"	"	"	"	
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-03@7'**  
**7/27/2023 2:09:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.5 %		70-130			B3H02 22	08/02/2023	08/03/2023	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.63		0.499	meq/L	10	[CALC]	07/29/2023	08/01/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.476		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695982	08/01/2023	08/01/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-03@7'**  
**7/27/2023 2:09:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y307619-03 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695982	08/01/2023	08/01/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.3 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	60 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	54.8 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	8.26			pH Units	1	B3G2909	07/29/2023	08/01/2023	
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**SAR by 20B Saturated Paste**

SAR	0.463			SAR	1	B3G2903	07/29/2023	08/01/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.289		0.00500	mmhos/cm	1	B3G2909	07/29/2023	08/01/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	7.25		0.0917	mg/kg	10	B3G2816	07/28/2023	07/31/2023	
Barium	138		9.17	"	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-03@7'**  
**7/27/2023 2:09:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-03 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	1.46		0.0917	mg/kg	10	B3G2816	07/28/2023	07/31/2023	
Copper	13.7		9.17	"	"	"	"	"	
Lead	15.2		9.17	"	"	"	"	"	
Nickel	17.1		9.17	"	"	"	"	"	
Selenium	0.311		0.0917	"	"	"	"	"	
Silver	ND		0.0917	"	"	"	"	"	
Zinc	ND		91.7	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L696251	07/27/2023	08/02/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-04@7'**  
**7/27/2023 2:11:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.315		0.0980	mg/L	1	B3G2906	07/29/2023	08/01/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G2817	07/28/2023	07/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.0 %		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0222	08/02/2023	08/03/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00616		0.00200	"	"	"	"	"	
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.00464		0.00200	"	"	"	"	"	
Xylenes, total	0.0107		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %		70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-04@7'**  
**7/27/2023 2:11:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.8 %		70-130			B3H02 22	08/02/2023	08/03/2023	
Surrogate: 4-Bromofluorobenzene	95.0 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	29.7		0.499	meq/L	10	[CALC]	07/29/2023	08/01/2023	
Magnesium	4.59		0.823	"	"	"	"	"	
Sodium	0.484		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695982	08/01/2023	08/01/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-04@7'**  
**7/27/2023 2:11:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y307619-04 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695982	08/01/2023	08/01/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.77			pH Units	1	B3G2909	07/29/2023	08/01/2023	
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**SAR by 20B Saturated Paste**

SAR	0.117			SAR	1	B3G2903	07/29/2023	08/01/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.51		0.00500	mmhos/cm	1	B3G2909	07/29/2023	08/01/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.55		0.0942	mg/kg	10	B3G2816	07/28/2023	07/31/2023	
Barium	66.3		9.42	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-SS-04@7'**  
**7/27/2023 2:11:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-04 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.159		0.0942	mg/kg	10	B3G2816	07/28/2023	07/31/2023	
Copper	ND		9.42	"	"	"	"	"	"
Lead	ND		9.42	"	"	"	"	"	"
Nickel	ND		9.42	"	"	"	"	"	"
Selenium	0.107		0.0942	"	"	"	"	"	"
Silver	ND		0.0942	"	"	"	"	"	"
Zinc	ND		94.2	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.252	0.518	mg/Kg	1	L696251	07/27/2023	08/02/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-FS-01@8'**  
**7/27/2023 2:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.509		0.100	mg/L	1	B3G2906	07/29/2023	08/01/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G2817	07/28/2023	07/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.1 %		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0222	08/02/2023	08/03/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00734		0.00200	"	"	"	"	"	
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.00620		0.00200	"	"	"	"	"	
Xylenes, total	0.0131		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	125 %		70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

WH-FS-01@8'  
 7/27/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.7 %		70-130			B3H02 22	08/02/2023	08/03/2023	
Surrogate: 4-Bromofluorobenzene	94.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.79		0.499	meq/L	10	[CALC]	07/29/2023	08/01/2023	
Magnesium	0.861		0.823	"	"	"	"	"	
Sodium	1.79		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695982	08/01/2023	08/01/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-FS-01@8'**  
**7/27/2023 2:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y307619-05 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695982	08/01/2023	08/01/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.3 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	77.3 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	60.4 %		29-110	"	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.03			pH Units	1	B3G2909	07/29/2023	08/01/2023	
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**SAR by 20B Saturated Paste**

SAR	1.33			SAR	1	B3G2903	07/29/2023	08/01/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.610		0.00500	mmhos/cm	1	B3G2909	07/29/2023	08/01/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	7.19		0.0870	mg/kg	10	B3G2816	07/28/2023	07/31/2023	
Barium	111		8.70	"	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**WH-FS-01@8'**  
**7/27/2023 2:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307619-05 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.347		0.0870	mg/kg	10	B3G2816	07/28/2023	07/31/2023	
Copper	12.3		8.70	"	"	"	"	"	
Lead	13.2		8.70	"	"	"	"	"	
Nickel	14.7		8.70	"	"	"	"	"	
Selenium	0.335		0.0870	"	"	"	"	"	
Silver	ND		0.0870	"	"	"	"	"	
Zinc	ND		87.0	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L696251	07/27/2023	08/02/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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 B3G2817 - EPA 3550B**

Prepared: 07/28/2023 Analyzed: 07/28/2023

**Blank (B3G2817-BLK1)**

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.8	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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 B3G2817 - EPA 3550B

LCS (B3G2817-BS1)

Prepared: 07/28/2023 Analyzed: 07/28/2023

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	64		"	49.8		128	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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 B3G2817 - EPA 3550B

Matrix Spike (B3G2817-MS1)

Source: Y307568-01

Prepared: 07/28/2023 Analyzed: 07/28/2023

Diesel (C10-C28)	1260	50.0	mg/kg	1000	239	102	70-130			
Residual Range Organics (C28-C40)	1660	200	"	1000	637	102	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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 B3G2817 - EPA 3550B

Matrix Spike Dup (B3G2817-MSD1)

Source: Y307568-01

Prepared: 07/28/2023 Analyzed: 07/28/2023

Diesel (C10-C28)	1100	50.0	mg/kg	1000	239	86.5	70-130	13.4	35	
Residual Range Organics (C28-C40)	1490	200	"	1000	637	85.6	70-130	10.4	35	
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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 B3H0222 - EPA 5030 (soil)

Blank (B3H0222-BLK1)

Prepared: 08/02/2023 Analyzed: 08/03/2023

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	0.00380	"							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		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.9	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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 B3H0222 - EPA 5030 (soil)

LCS (B3H0222-BS1)

Prepared: 08/02/2023 Analyzed: 08/03/2023

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0814	0.00200	"	0.100		81.4	70-130			
Ethylbenzene	0.0960	0.00200	"	0.100		96.0	70-130			
Naphthalene	0.0976	0.00380	"	0.100		97.6	70-130			
Toluene	0.0888	0.00200	"	0.100		88.8	70-130			
o-Xylene	0.0971	0.00200	"	0.100		97.1	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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 B3H0222 - EPA 5030 (soil)

Matrix Spike (B3H0222-MS1)

Source: Y307619-01

Prepared: 08/02/2023 Analyzed: 08/03/2023

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	0.00182	100	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	0.00218	103	70-130			
Benzene	0.0882	0.00200	"	0.100	ND	88.2	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	0.00740	97.8	70-130			
Naphthalene	0.111	0.00380	"	0.100	0.00122	110	70-130			
Toluene	0.100	0.00200	"	0.100	0.00638	93.8	70-130			
o-Xylene	0.107	0.00200	"	0.100	0.00388	104	70-130			
m,p-Xylene	0.220	0.00400	"	0.200	0.00968	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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 B3H0222 - EPA 5030 (soil)

Matrix Spike Dup (B3H0222-MSD1)

Source: Y307619-01

Prepared: 08/02/2023 Analyzed: 08/03/2023

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	0.00182	103	70-130	2.34	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	0.00218	104	70-130	1.25	20	
Benzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	3.26	20	
Ethylbenzene	0.109	0.00200	"	0.100	0.00740	102	70-130	3.64	20	
Naphthalene	0.131	0.00380	"	0.100	0.00122	130	70-130	16.8	20	
Toluene	0.0977	0.00200	"	0.100	0.00638	91.3	70-130	2.51	20	
o-Xylene	0.111	0.00200	"	0.100	0.00388	107	70-130	3.22	20	
m,p-Xylene	0.231	0.00400	"	0.200	0.00968	111	70-130	5.24	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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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**Metals by EPA 6000/7000 Series Methods - 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 B3G2816 - EPA 3050B**

**Blank (B3G2816-BLK1)**

Prepared: 07/28/2023 Analyzed: 07/31/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B3G2816-BS1)**

Prepared: 07/28/2023 Analyzed: 07/31/2023

Arsenic	4.72	0.00916	mg/kg	4.58		103	80-120			
Barium	470	0.916	"	458		103	80-120			
Cadmium	4.78	0.00916	"	4.58		104	80-120			
Copper	51.0	0.916	"	45.8		111	80-120			
Lead	4.74	0.916	"	4.58		103	80-120			
Nickel	4.84	0.916	"	4.58		106	80-120			
Selenium	4.31	0.00916	"	4.58		94.1	80-120			
Silver	4.76	0.00916	"	4.58		104	80-120			
Zinc	47.4	9.16	"	45.8		103	80-120			

**Matrix Spike (B3G2816-MS1)**

Source: Y307601-01

Prepared: 07/28/2023 Analyzed: 07/31/2023

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Metals by EPA 6000/7000 Series Methods - 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 B3G2816 - EPA 3050B**

**Matrix Spike (B3G2816-MS1)**

**Source: Y307601-01**

Prepared: 07/28/2023 Analyzed: 07/31/2023

Arsenic	9.19	0.0958	mg/kg	4.79	6.66	52.9	75-125			QM-07
Barium	699	9.58	"	479	125	120	75-125			
Cadmium	5.22	0.0958	"	4.79	0.141	106	75-125			
Copper	56.1	9.58	"	47.9	4.73	107	75-125			
Lead	10.1	9.58	"	4.79	5.46	97.4	75-125			
Nickel	10.1	9.58	"	4.79	4.82	111	75-125			
Selenium	4.47	0.0958	"	4.79	0.137	90.5	75-125			
Silver	5.08	0.0958	"	4.79	0.0195	106	75-125			
Zinc	69.4	95.8	"	47.9	20.6	102	75-125			

**Matrix Spike Dup (B3G2816-MSD1)**

**Source: Y307601-01**

Prepared: 07/28/2023 Analyzed: 07/31/2023

Arsenic	9.06	0.0939	mg/kg	4.70	6.66	51.2	75-125	1.44	20	QM-07
Barium	599	9.39	"	470	125	101	75-125	15.4	20	
Cadmium	5.05	0.0939	"	4.70	0.141	105	75-125	3.27	20	
Copper	54.8	9.39	"	47.0	4.73	107	75-125	2.40	20	
Lead	9.15	9.39	"	4.70	5.46	78.7	75-125	10.1	20	
Nickel	9.47	9.39	"	4.70	4.82	99.1	75-125	6.72	20	
Selenium	4.43	0.0939	"	4.70	0.137	91.4	75-125	0.948	20	
Silver	4.91	0.0939	"	4.70	0.0195	104	75-125	3.32	20	
Zinc	68.2	93.9	"	47.0	20.6	101	75-125	1.68	20	

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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 B3G2903 - Saturated Paste Metals**

**Blank (B3G2903-BLK1)**

Prepared: 07/29/2023 Analyzed: 08/01/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B3G2903-DUP1)**

Source: Y307616-09

Prepared: 07/29/2023 Analyzed: 08/01/2023

Calcium PPM	10.8	10.0	mg/L		11.7			8.63	50	
SAR	0.00		SAR		0.939			200	200	
Magnesium PPM	1.46	10.0	mg/L		1.76			18.6	50	
Sodium PPM	10.8	10.0	"		13.0			19.3	50	

**Batch B3G2906 - DTPA Sorbitol Preparation**

**Blank (B3G2906-BLK1)**

Prepared: 07/29/2023 Analyzed: 08/01/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3G2906-DUP1)**

Source: Y307599-01

Prepared: 07/29/2023 Analyzed: 08/01/2023

Boron	0.218	0.0989	mg/L		0.227			4.08	50	
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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**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 B3G2909 - Saturated Paste pH/EC**

**Blank (B3G2909-BLK1)**

Prepared: 07/29/2023 Analyzed: 08/01/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3G2909-DUP1)**

**Source: Y307616-09**

Prepared: 07/29/2023 Analyzed: 08/01/2023

pH	8.61		pH Units	8.23		4.51	25
Specific Conductance (EC)	0.210	0.00500	mmhos/cm	0.237		12.3	25

Origins Laboratory, Inc.

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L695982 - 3550B**

**MSD (L 87963-MSD-L695982)**

**Source: 87963**

Prepared: 08/01/2023 Analyzed: 08/01/2023

Chrysene	0.111	0.00067	mg/Kg	0.166	0.000974	66.2	30-130	1.8	30	
Acenaphthene	0.102	0.00067	"	0.166	<0.000304	61.4	30-130	0.9	30	
Anthracene	0.12	0.00067	"	0.166	<0.000334	72.2	30-130	3.3	30	
Benzo(a)anthracene	0.107	0.00067	"	0.166	<0.000493	64.4	30-130	8.4	30	
Benzo(a)pyrene	0.119	0.00067	"	0.166	0.00108	71	30-130	9.6	30	
Benzo(k)fluoranthene	0.0765	0.00067	"	0.166	<0.000437	46	30-130	32.3	30	*
1-Methylnaphthalene	0.102	0.00201	"	0.166	<0.00109	61.4	30-130	7.4	30	
Dibenz(a,h)anthracene	0.101	0.00067	"	0.166	<0.000614	60.8	30-130	44	30	*
Fluoranthene	0.117	0.00067	"	0.166	0.00138	69.6	30-130	3.4	30	
Fluorene	0.111	0.00067	"	0.166	<0.000286	66.8	30-130	1.8	30	
Indeno(1,2,3-cd)pyrene	0.0645	0.00067	"	0.166	<0.000627	38.8	30-130	60.9	30	*
Pyrene	0.12	0.00067	"	0.166	0.00122	71.5	30-130	2.5	30	
Benzo(b)fluoranthene	0.0706	0.00067	"	0.166	0.00129	41.7	30-130	25	30	
2-Methylnaphthalene	0.101	0.00201	"	0.166	<0.00194	60.8	30-130	7.3	30	
Surrogate: 4-Terphenyl-d14	70.1		"	0.332	250	70.1	33-122			
Surrogate: 2-Fluorobiphenyl	58.7		"	0.332	204	58.7	33-115			
Surrogate: Nitrobenzene-d5	53.6		"	0.332	191	53.6	29-110			

**MS (L 87963-MS-L695982)**

**Source: 87963**

Prepared: 08/01/2023 Analyzed: 08/01/2023

Benzo(a)pyrene	0.108	0.00067	mg/Kg	0.164	0.00108	65.1	30-130			
1-Methylnaphthalene	0.0947	0.00201	"	0.164	<0.00109	57.7	30-130			
2-Methylnaphthalene	0.0938	0.00201	"	0.164	<0.00194	57.1	30-130			
Acenaphthene	0.101	0.00067	"	0.164	<0.000304	61.5	30-130			
Benzo(a)anthracene	0.0983	0.00067	"	0.164	<0.000493	59.9	30-130			
Benzo(b)fluoranthene	0.0908	0.00067	"	0.164	0.00129	54.5	30-130			
Indeno(1,2,3-cd)pyrene	0.121	0.00067	"	0.164	<0.000627	73.7	30-130			
Anthracene	0.116	0.00067	"	0.164	<0.000334	70.7	30-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L695982 - 3550B**

**MS (L 87963-MS-L695982)**

**Source: 87963**

Prepared: 08/01/2023 Analyzed: 08/01/2023

Benzo(k)fluoranthene	0.106	0.00067	mg/Kg	0.164	<0.000437	64.6	30-130			
Fluorene	0.109	0.00067	"	0.164	<0.000286	66.4	30-130			
Fluoranthene	0.113	0.00067	"	0.164	0.00138	68	30-130			
Dibenz(a,h)anthracene	0.158	0.00067	"	0.164	<0.000614	96.3	30-130			
Chrysene	0.109	0.00067	"	0.164	0.000974	65.8	30-130			
Pyrene	0.117	0.00067	"	0.164	0.00122	70.5	30-130			

Surrogate: 2-Fluorobiphenyl	53.3		"	0.328	204	53.3	33-115			
Surrogate: 4-Terphenyl-d14	64.6		"	0.328	250	64.6	33-122			
Surrogate: Nitrobenzene-d5	50.9		"	0.328	191	50.9	29-110			

**LCS (LCS-L695982)**

Prepared: 08/01/2023 Analyzed: 08/01/2023

Chrysene	0.113	0.00067	mg/Kg	0.167		67.6	30-130			
Fluoranthene	0.119	0.00067	"	0.167		71.2	30-130			
Pyrene	0.121	0.00067	"	0.167		72.4	30-130			
1-Methylnaphthalene	0.098	0.00201	"	0.167		58.6	30-130			
Fluorene	0.112	0.00067	"	0.167		67	30-130			
Dibenz(a,h)anthracene	0.165	0.00067	"	0.167		98.8	30-130			
Benzo(b)fluoranthene	0.0961	0.00067	"	0.167		57.5	30-130			
Benzo(a)pyrene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.107	0.00067	"	0.167		64	30-130			
Indeno(1,2,3-cd)pyrene	0.124	0.00067	"	0.167		74.2	30-130			
Acenaphthene	0.101	0.00067	"	0.167		60.4	30-130			
Benzo(k)fluoranthene	0.12	0.00067	"	0.167		71.8	30-130			
2-Methylnaphthalene	0.0972	0.00201	"	0.167		58.2	30-130			
Anthracene	0.119	0.00067	"	0.167		71.2	30-130			

Surrogate: Nitrobenzene-d5	52.8		"	0.333		52.8	29-110			
Surrogate: 4-Terphenyl-d14	67.2		"	0.333		67.2	33-122			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L695982 - 3550B**

**LCS (LCS-L695982)**


Prepared: 08/01/2023 Analyzed: 08/01/2023

Surrogate: 2-Fluorobiphenyl 56.1 mg/Kg 0.333 56.1 33-115

**LRB (LRB-L695982)**

Prepared: 08/01/2023 Analyzed: 08/01/2023

Anthracene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	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	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	51		"	0.333		51	29-110			
Surrogate: 4-Terphenyl-d14	70.5		"	0.333		70.5	33-122			
Surrogate: 2-Fluorobiphenyl	58.2		"	0.333		58.2	33-115			

Origins Laboratory, Inc.  


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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696251 -

**DUP (L 87960-DUP)**

Source: 87960

Prepared: Analyzed: 08/02/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20		
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**MS (L 87960-MS)**

Source: 87960

Prepared: Analyzed: 08/02/2023

Chromium, Hexavalent	25.8	2.5	mg/Kg	39.5	<1.22	65	75-125			*
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**LCS (LCS)**

Prepared: Analyzed: 08/02/2023

Chromium, Hexavalent	7.11	0.5	mg/Kg	8		89	75-125			
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**LRB (LRB)**

Prepared: Analyzed: 08/02/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-				
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Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Brown USX AA 03-23

## Notes and Definitions

- U Sample is Non-Detect.
  - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
  - \* 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.  
Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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