



June 21, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wolfe USX CC #07-25

Project Number - [none]

Attached are your analytical results for Noble - Wolfe USX CC #07-25 received by Origins Laboratory, Inc. April 24, 2024. This project is associated with Origins project number Y404722-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@4'	Y404722-01	Soil	April 24, 2024 12:00	04/24/2024 18:10
FL-SS-02@4'	Y404722-02	Soil	April 24, 2024 13:05	04/24/2024 18:10
Background-01@2'	Y404722-03	Soil	April 24, 2024 12:05	04/24/2024 18:10
Background-02@2'	Y404722-04	Soil	April 24, 2024 12:10	04/24/2024 18:10

A pH rerun was requested for FL-SS-02@4' per Garrett's email on 05/09/2024. No errors were found in the original data, all results are reported. JAB

Origins Laboratory, Inc.



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# ORIGINS LABORATORY, INC

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

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

**Sample Receipt Checklist**

Origins Work Order: 4404722 Client: Eagle  
Client Project ID: WOLFE USX #07-25

Checklist Completed by: JBY/AN Shipped Via: HD  
Date/Time completed: 4/25/24 (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 / 3.5 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>SO</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Additional Comments (if any):</b>				

<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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 4/26/24

Origins Laboratory, Inc.

[Signature]

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Jordan A. Bynon, Project Manager

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

FL-SS-01@4  
 4/24/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.180		0.0996	mg/L	1	B4D2914	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2538	04/25/2024	05/03/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 98.0% 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2556	04/25/2024	05/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	05/06/2024	Ua
Xylenes, total	ND		0.00200	"	"	"	"	05/03/2024	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Andrew Newberry  
 Project Number: [none]  
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FL-SS-01@4  
 4/24/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			B4D25 56	04/25/2024	05/03/2024	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.03		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	1.13		0.823	"	"	"	"	"	
Sodium	2.24		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0133	05/01/2024	05/04/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua

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FL-SS-01@4  
 4/24/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4E0133	05/01/2024	05/04/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.26			pH Units	1	B4D2710	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	1.78		0.0100	SAR	1	B4D2704	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.627		0.00500	mmhos/cm	1	B4D2710	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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FL-SS-01@4  
 4/24/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.48		0.250	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Barium	68.2		8.63	"	"	"	"	"	"
Cadmium	0.107		0.0863	"	"	"	"	"	"
Copper	ND		8.63	"	"	"	"	"	"
Lead	6.08		0.863	"	"	"	"	"	"
Nickel	5.43		0.863	"	"	"	"	"	"
Selenium	ND		0.224	"	"	"	"	"	"
Silver	ND		0.0863	"	"	"	"	"	"
Zinc	ND		31.9	"	"	"	"	"	"

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.165	0.412	mg/kg dry	1	2605451	05/01/2024	05/02/2024	U
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Andrew Newberry  
 Project Number: [none]  
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FL-SS-02@4'  
 4/24/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.262		0.101	mg/L	1	B4D2914	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2538	04/25/2024	05/03/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 96.4% 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2556	04/25/2024	05/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	05/06/2024	Ua
Xylenes, total	ND		0.00200	"	"	"	"	05/03/2024	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

FL-SS-02@4  
 4/24/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B4D25 56	04/25/2024	05/03/2024	
Surrogate: Toluene-d8	99.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.02		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.94		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0133	05/01/2024	05/04/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.006		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

FL-SS-02@4  
 4/24/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-02 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4E0133	05/01/2024	05/04/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.56			pH Units	1	B4D2710	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	2.25		0.0100	SAR	1	B4D2704	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.337		0.00500	mmhos/cm	1	B4D2710	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

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8000 W 44th Ave  
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Project Number: [none]  
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FL-SS-02@4'  
4/24/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-02 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.82		0.269	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Barium	94.2		9.29	"	"	"	"	"	"
Cadmium	0.176		0.0929	"	"	"	"	"	"
Copper	ND		9.29	"	"	"	"	"	"
Lead	7.51		0.929	"	"	"	"	"	"
Nickel	8.36		0.929	"	"	"	"	"	"
Selenium	ND		0.242	"	"	"	"	"	"
Silver	ND		0.0929	"	"	"	"	"	"
Zinc	40.2		34.4	"	"	"	"	"	"

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.138	0.346	mg/kg dry	1	2605451	05/01/2024	05/02/2024	U
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Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

FL-SS-02@4'  
4/24/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y404722-02RE1 (Soil)

**pH in Soil by 9045D**

pH	8.60			pH Units	1	B4E1018	04/27/2024	05/11/2024	
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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC  
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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

FL-SS-02@4'  
4/24/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y404722-02RE2 (Soil)

**pH in Soil by 9045D**

pH	8.61			pH Units	1	B4E1018	04/27/2024	05/11/2024	
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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**Background-01@2'**  
**4/24/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.320		0.0986	mg/L	1	B4D2914	04/29/2024	05/01/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.25		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	1.46		0.823	"	"	"	"	"	
Sodium	3.90		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.00			pH Units	1	B4D2710	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	2.87		0.0100	SAR	1	B4D2704	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.891		0.00500	mmhos/cm	1	B4D2710	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.24		0.262	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Barium	75.9		9.05	"	"	"	"	"	
Cadmium	0.126		0.0905	"	"	"	"	"	
Copper	ND		9.05	"	"	"	"	"	

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

Background-01@2'  
4/24/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y404722-03 (Soil)

Table 915 metals by EPA 6020B

Lead	7.43		0.905	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Nickel	8.69		0.905	"	"	"	"	"	"
Selenium	0.354		0.235	"	"	"	"	"	"
Silver	ND		0.0905	"	"	"	"	"	"
Zinc	46.1		33.5	"	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	0.164	0.147	0.368	mg/kg dry	1	2605451	05/01/2024	05/02/2024	J
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Origins Laboratory, Inc.

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**Background-02@2'**  
**4/24/2024 12:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.325		0.101	mg/L	1	B4D2914	04/29/2024	05/01/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.10		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	1.38		0.823	"	"	"	"	"	
Sodium	3.74		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.98			pH Units	1	B4D2710	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	2.84		0.0100	SAR	1	B4D2704	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.868		0.00500	mmhos/cm	1	B4D2710	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.47		0.269	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Barium	67.9		9.29	"	"	"	"	"	
Cadmium	0.116		0.0929	"	"	"	"	"	
Copper	ND		9.29	"	"	"	"	"	

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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

**Background-02@2'**  
**4/24/2024 12:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-04 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	5.49		0.929	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Nickel	6.62		0.929	"	"	"	"	"	"
Selenium	0.245		0.242	"	"	"	"	"	"
Silver	ND		0.0929	"	"	"	"	"	"
Zinc	ND		34.4	"	"	"	"	"	"

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.138	0.345	mg/kg dry	1	2605451	05/01/2024	05/02/2024	U
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Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC  
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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

**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 B4D2538 - EPA 3550B**

**Blank (B4D2538-BLK1)**

Prepared: 04/25/2024 Analyzed: 05/02/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	28		"	24.9		114	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2538 - EPA 3550B

LCS (B4D2538-BS1)

Prepared: 04/25/2024 Analyzed: 05/03/2024

Diesel (C10-C28)	948	50.0	mg/kg	1000		94.8	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2538 - EPA 3550B

Matrix Spike (B4D2538-MS1)

Source: Y404712-01

Prepared: 04/25/2024 Analyzed: 05/03/2024

Diesel (C10-C28)	884	50.0	mg/kg	1000	ND	88.4	70-130			
Residual Range Organics (C28-C40)	955	200	"	1000	ND	95.5	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2538 - EPA 3550B

Matrix Spike Dup (B4D2538-MSD1)

Source: Y404712-01

Prepared: 04/25/2024 Analyzed: 05/03/2024

Diesel (C10-C28)	798	50.0	mg/kg	1000	ND	79.8	70-130	10.3	35	
Residual Range Organics (C28-C40)	888	200	"	1000	ND	88.8	70-130	7.24	35	
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2556 - EPA 5030 (soil)

Prepared: 04/25/2024 Analyzed: 05/03/2024

Blank (B4D2556-BLK1)

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2556 - EPA 5030 (soil)

LCS (B4D2556-BS1)

Prepared: 04/25/2024 Analyzed: 05/03/2024

1,2,4-Trimethylbenzene	0.0981	0.00200	mg/kg	0.100		98.1	70-130			
1,3,5-Trimethylbenzene	0.0984	0.00200	"	0.100		98.4	70-130			
Benzene	0.0926	0.00200	"	0.100		92.6	70-130			
Ethylbenzene	0.0966	0.00200	"	0.100		96.6	70-130			
Naphthalene	0.0958	0.00380	"	0.100		95.8	70-130			
Toluene	0.0934	0.00200	"	0.100		93.4	70-130			
o-Xylene	0.0987	0.00200	"	0.100		98.7	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

**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 B4D2556 - EPA 5030 (soil)

Matrix Spike (B4D2556-MS1)

Source: Y404722-01

Prepared: 04/25/2024 Analyzed: 05/03/2024

1,2,4-Trimethylbenzene	0.0969	0.00200	mg/kg	0.100	ND	96.9	70-130			
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Benzene	0.0975	0.00200	"	0.100	ND	97.5	70-130			
Ethylbenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130			
Toluene	0.108	0.00200	"	0.100	ND	108	70-130			
o-Xylene	0.0975	0.00200	"	0.100	ND	97.5	70-130			
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.1	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2556 - EPA 5030 (soil)

Matrix Spike Dup (B4D2556-MSD1)

Source: Y404722-01

Prepared: 04/25/2024 Analyzed: 05/03/2024

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130	3.53	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	3.66	20	
Benzene	0.100	0.00200	"	0.100	ND	100	70-130	2.53	20	
Ethylbenzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	4.48	20	
Naphthalene	0.109	0.00380	"	0.100	ND	109	70-130	4.40	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	0.664	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	4.45	20	
m,p-Xylene	0.196	0.00400	"	0.200	ND	97.9	70-130	4.31	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.8	70-130			

Origins Laboratory, Inc.

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Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2528 - EPA 3050B**

**Blank (B4D2528-BLK1)**

Prepared: 04/25/2024 Analyzed: 04/30/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4D2528-BS1)**

Prepared: 04/25/2024 Analyzed: 04/29/2024

Arsenic	5.94	0.290	mg/kg	5.00	119	80-120				
Barium	544	10.0	"	500	109	80-120				
Cadmium	5.48	0.100	"	5.00	110	80-120				
Copper	58.1	10.0	"	50.0	116	80-120				
Lead	5.68	1.00	"	5.00	114	80-120				
Nickel	5.72	1.00	"	5.00	114	80-120				
Selenium	10.8	0.260	"	9.50	114	80-120				
Silver	5.83	0.100	"	5.00	117	80-120				
Zinc	59.6	37.0	"	50.0	119	80-120				

**Matrix Spike (B4D2528-MS1)**

Source: Y404717-01

Prepared: 04/25/2024 Analyzed: 04/29/2024

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2528 - EPA 3050B

**Matrix Spike (B4D2528-MS1)**

Source: Y404717-01

Prepared: 04/25/2024 Analyzed: 04/29/2024

Arsenic	9.08	0.271	mg/kg	4.67	3.27	125	75-125			
Barium	614	9.33	"	467	112	107	75-125			
Cadmium	5.50	0.0933	"	4.67	0.165	114	75-125			
Copper	63.1	9.33	"	46.7	9.27	115	75-125			
Lead	13.2	0.933	"	4.67	8.45	102	75-125			
Nickel	13.5	0.933	"	4.67	8.09	115	75-125			
Selenium	10.1	0.243	"	8.87	0.128	113	75-125			
Silver	5.39	0.0933	"	4.67	0.0611	114	75-125			
Zinc	91.3	34.5	"	46.7	39.7	111	75-125			

**Matrix Spike Dup (B4D2528-MSD1)**

Source: Y404717-01

Prepared: 04/25/2024 Analyzed: 04/29/2024

Arsenic	8.83	0.271	mg/kg	4.68	3.27	119	75-125	2.86	20	
Barium	622	9.35	"	468	112	109	75-125	1.28	20	
Cadmium	5.67	0.0935	"	4.68	0.165	118	75-125	3.06	20	
Copper	62.7	9.35	"	46.8	9.27	114	75-125	0.574	20	
Lead	13.3	0.935	"	4.68	8.45	103	75-125	0.561	20	
Nickel	13.3	0.935	"	4.68	8.09	111	75-125	1.44	20	
Selenium	9.88	0.243	"	8.89	0.128	110	75-125	2.25	20	
Silver	5.42	0.0935	"	4.68	0.0611	115	75-125	0.571	20	
Zinc	92.0	34.6	"	46.8	39.7	112	75-125	0.767	20	

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E0133 - EPA 3580**

**Blank (B4E0133-BLK1)**

Prepared: 05/01/2024 Analyzed: 05/04/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		94.9	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**LCS (B4E0133-BS1)**

Prepared: 05/01/2024 Analyzed: 05/04/2024

1-Methylnaphthalene	0.222	0.002	mg/kg	0.200		111	70-130			
2-Methylnaphthalene	0.221	0.002	"	0.200		110	70-130			
Acenaphthene	0.225	0.020	"	0.200		112	70-130			
Anthracene	0.210	0.020	"	0.200		105	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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E0133 - EPA 3580**

**LCS (B4E0133-BS1)**

Prepared: 05/01/2024 Analyzed: 05/04/2024

Benzo (a) anthracene	0.214	0.005	mg/kg	0.200		107	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200		107	70-130			
Benzo (b) fluoranthene	0.224	0.020	"	0.200		112	70-130			
Benzo (g,h,i) perylene	0.204	0.020	"	0.200		102	70-130			
Benzo (k) fluoranthene	0.205	0.020	"	0.200		102	70-130			
Chrysene	0.216	0.020	"	0.200		108	70-130			
Dibenz (a,h) anthracene	0.225	0.020	"	0.200		113	70-130			
Fluoranthene	0.209	0.020	"	0.200		104	70-130			
Fluorene	0.235	0.020	"	0.200		117	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200		97.7	70-130			
Naphthalene	0.226	0.002	"	0.200		113	70-130			
Phenanthrene	0.219	0.020	"	0.200		109	70-130			
Pyrene	0.211	0.020	"	0.200		105	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		93.8	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike (B4E0133-MS1)**

Source: Y404721-01

Prepared: 05/01/2024 Analyzed: 05/04/2024

1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	ND	108	70-130			
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	109	70-130			
Acenaphthene	0.218	0.020	"	0.200	ND	109	70-130			
Anthracene	0.206	0.020	"	0.200	ND	103	70-130			
Benzo (a) anthracene	0.210	0.005	"	0.200	ND	105	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200	ND	107	70-130			
Benzo (b) fluoranthene	0.223	0.020	"	0.200	ND	112	70-130			
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	0.0007	106	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E0133 - EPA 3580**

**Matrix Spike (B4E0133-MS1)**

**Source: Y404721-01**

Prepared: 05/01/2024 Analyzed: 05/04/2024

Benzo (k) fluoranthene	0.194	0.020	mg/kg	0.200	0.001	96.5	70-130			
Chrysene	0.211	0.020	"	0.200	ND	105	70-130			
Dibenz (a,h) anthracene	0.229	0.020	"	0.200	ND	115	70-130			
Fluoranthene	0.206	0.020	"	0.200	ND	103	70-130			
Fluorene	0.225	0.020	"	0.200	ND	113	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	0.002	102	70-130			
Naphthalene	0.222	0.002	"	0.200	ND	111	70-130			
Phenanthrene	0.210	0.020	"	0.200	ND	105	70-130			
Pyrene	0.198	0.020	"	0.200	ND	99.2	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		94.3	60-130			
Surrogate: Pyrene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**Matrix Spike Dup (B4E0133-MSD1)**

**Source: Y404721-01**

Prepared: 05/01/2024 Analyzed: 05/04/2024

1-Methylnaphthalene	0.220	0.002	mg/kg	0.200	ND	110	70-130	1.65	20	
2-Methylnaphthalene	0.219	0.002	"	0.200	ND	110	70-130	0.939	20	
Acenaphthene	0.223	0.020	"	0.200	ND	112	70-130	2.42	20	
Anthracene	0.214	0.020	"	0.200	ND	107	70-130	3.60	20	
Benzo (a) anthracene	0.222	0.005	"	0.200	ND	111	70-130	5.51	20	
Benzo (a) pyrene	0.215	0.020	"	0.200	ND	107	70-130	0.262	20	
Benzo (b) fluoranthene	0.227	0.020	"	0.200	ND	113	70-130	1.57	20	
Benzo (g,h,i) perylene	0.221	0.020	"	0.200	0.0007	110	70-130	3.57	20	
Benzo (k) fluoranthene	0.218	0.020	"	0.200	0.001	109	70-130	11.7	20	
Chrysene	0.219	0.020	"	0.200	ND	109	70-130	3.62	20	
Dibenz (a,h) anthracene	0.236	0.020	"	0.200	ND	118	70-130	2.90	20	
Fluoranthene	0.206	0.020	"	0.200	ND	103	70-130	0.160	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E0133 - EPA 3580

Matrix Spike Dup (B4E0133-MSD1)

Source: Y404721-01

Prepared: 05/01/2024 Analyzed: 05/04/2024

Fluorene	0.230	0.020	mg/kg	0.200	ND	115	70-130	2.27	20	
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200	0.002	110	70-130	6.60	20	
Naphthalene	0.227	0.002	"	0.200	ND	113	70-130	1.86	20	
Phenanthrene	0.217	0.020	"	0.200	ND	109	70-130	3.23	20	
Pyrene	0.205	0.020	"	0.200	ND	103	70-130	3.27	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		93.9	60-130			
Surrogate: Pyrene-d10	190		"	200		93.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry  
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 Project: Noble - Wolfe USX CC #07-25

**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 B4D2704 - Saturated Paste Metals**

**Blank (B4D2704-BLK1)**

Prepared: 04/27/2024 Analyzed: 04/29/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B4D2704-DUP1)**

Source: Y404720-01

Prepared: 04/27/2024 Analyzed: 04/29/2024

SAR	ND	0.0100	SAR	5.04				200		
Calcium PPM	165	10.0	mg/L	151			8.57	50		
Magnesium PPM	24.6	10.0	"	34.0			32.2	50		
Sodium PPM	290	10.0	"	264			9.71	50		

**Batch B4D2914 - DTPA Sorbitol Preparation**

**Blank (B4D2914-BLK1)**

Prepared: 04/29/2024 Analyzed: 05/01/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4D2914-DUP1)**

Source: Y404721-03

Prepared: 04/29/2024 Analyzed: 05/01/2024

Boron	1.53	0.0989	mg/L	1.49			2.44	50		
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Jordan A. Bynon, Project Manager



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Andrew Newberry  
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 Project: Noble - Wolfe USX CC #07-25

**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 B4D2710 - Saturated Paste pH/EC**

**Blank (B4D2710-BLK1)**

Prepared: 04/27/2024 Analyzed: 04/29/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4D2710-DUP1)**

Source: Y404720-01

Prepared: 04/27/2024 Analyzed: 04/29/2024

Specific Conductance (EC) 1.71 0.00500 mmhos/cm 1.62 5.25 25  
 pH 8.23 pH Units 8.20 0.365 25

**Batch B4E1018 - Saturated Paste pH/EC**

**Duplicate (B4E1018-DUP1)**

Source: Y405153-02

Prepared: 05/10/2024 Analyzed: 05/11/2024

pH 8.25 pH Units 8.53 3.34 25

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Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2605451 - SW846 3060A**

Prepared: 05/01/2024 Analyzed: 05/02/2024

**BLANK (1205720252-BLK)**

Hexavalent Chromium	ND	0.324	mg/kg				-			U
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**LCS (1205720253-BKS)**

Prepared: 05/01/2024 Analyzed: 05/02/2024

Hexavalent Chromium	3.51	0.353	mg/kg	3.53		99.7	80-120			
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**DUP (1205720254 D)**

**Source: 665028016**

Prepared: 05/01/2024 Analyzed: 05/02/2024

Hexavalent Chromium	ND	0.337	mg/kg dry		<0.135		0-50	N/A	50	U
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**MS (1205720255 S)**

**Source: 665028016**

Prepared: 05/01/2024 Analyzed: 05/02/2024

Hexavalent Chromium	2.02	0.331	mg/kg dry	3.31	<0.132	60.9	75-125			
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**DUP (1205720256 D)**

**Source: 665033001**

Prepared: 05/01/2024 Analyzed: 05/02/2024

Hexavalent Chromium	ND	0.400	mg/kg dry		<0.160		0-50	N/A	50	U
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**MS (1205720257 S)**

**Source: 665033001**


Prepared: 05/01/2024 Analyzed: 05/02/2024

Hexavalent Chromium	2.25	0.407	mg/kg dry	4.07	<0.163	52	75-125			
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**ILCS (1205720258-ILCS)**

Prepared: 05/01/2024 Analyzed: 05/02/2024

Hexavalent Chromium	5.93	0.288	mg/kg	5.80		102	80-120			
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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

### Notes and Definitions

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- J Greater than the detection limit but less than the reporting limit
- 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.

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Jordan A. Bynon, Project Manager