



January 25, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wilmoth #14-3

Project Number - [none]

Attached are your analytical results for Noble - Wilmoth #14-3 received by Origins Laboratory, Inc. January 10, 2024. This project is associated with Origins project number Y401239-01.

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.

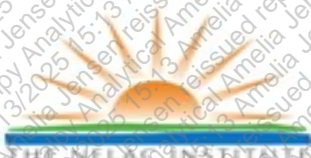
Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

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 - Wilmoth #14-3

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y401239-01	Soil	January 10, 2024 12:33	01/10/2024 17:40
Background-01@2'	Y401239-02	Soil	January 10, 2024 12:35	01/10/2024 17:40

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager







# ORIGINS

LABORATORY, INC

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wilmoth #14-3

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: 4401239

Client: EAIR

Client Project ID: WILMOTH #14-3

Checklist Completed by: JA/ENS

Shipped Via: HUO

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/10/24

Airbill #: N/A

Matrix(s) Received: (Check all that apply):

☒ Soil/Solid

☐ Water

☐ Other:

Cooler Number/Temperature: 1/10 °C

°C

(Describe)

°C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> 1/4 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? (note ID of confirmation instrument used in comments) (preservation is not confirmed for subcooled analytes in order to insure sample integrity) (pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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 1/12/24

Origins Laboratory, Inc.

[Signature]

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Jordan A. Bynon, Project Manager





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Andrew Newberry  
Project Number: [none]  
Project: Noble - Wilmoth #14-3

WH-FS-01@7'  
1/10/2024 12:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401239-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.498	0.100	mg/L	1	B4A1514	01/15/2024	01/17/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1201	01/12/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.4 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1205	01/12/2024	01/12/2024	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

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WH-FS-01@7'  
1/10/2024 12:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401239-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130	B4A1205	01/12/2024	01/12/2024
Surrogate: Toluene-d8	90.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.0 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.79	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.87	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1126	01/11/2024	01/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

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WH-FS-01@7'  
1/10/2024 12:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401239-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND	0.020	mg/kg	1	B4A1126	01/11/2024	01/12/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	88.7 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	107 %	60-130	"	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.36	pH Units	1	B4A1605	01/16/2024	01/16/2024	
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**SAR by 20B Saturated Paste**

SAR	2.68	0.0100	SAR	1	B4A1509	01/15/2024	01/17/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.602	0.00500	mmhos/cm	1	B4A1605	01/16/2024	01/16/2024	
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**Table 915 metals by EPA 6020B**

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WH-FS-01@7'  
1/10/2024 12:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401239-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.48	0.0886	mg/kg	10	B4A1134	01/11/2024	01/15/2024
Barium	136	8.86	"	"	"	"	"
Cadmium	0.128	0.0886	"	"	"	"	"
Copper	9.65	8.86	"	"	"	"	"
Lead	11.4	0.886	"	"	"	"	"
Nickel	7.67	0.886	"	"	"	"	"
Selenium	0.155	0.0886	"	"	"	"	"
Silver	ND	0.0886	"	"	"	"	"
Zinc	40.1	8.86	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728448	01/10/2024	01/23/2024
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**Background-01@2'**  
**1/10/2024 12:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401239-02 (Soil)**

## Boron (DTPA Sorbitol)

Boron	1.95	0.0985	mg/L	1	B4A1514	01/15/2024	01/17/2024
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## Metals by Saturated Paste by EPA 6010

Calcium	3.84	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	1.85	0.823	"	"	"	"	"
Sodium	9.58	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.33		pH Units	1	B4A1605	01/16/2024	01/16/2024
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## SAR by 20B Saturated Paste

SAR	5.68	0.0100	SAR	1	B4A1509	01/15/2024	01/17/2024
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.57	0.00500	mmhos/cm	1	B4A1605	01/16/2024	01/16/2024
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## Table 915 metals by EPA 6020B

Arsenic	4.18	0.0868	mg/kg	10	B4A1134	01/11/2024	01/15/2024
Barium	173	8.68	"	"	"	"	"
Cadmium	0.294	0.0868	"	"	"	"	"
Copper	18.9	8.68	"	"	"	"	"

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Project Number: [none]  
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Background-01@2'  
1/10/2024 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401239-02 (Soil)

Table 915 metals by EPA 6020B

Lead	16.2	0.868	mg/kg	10	B4A1134	01/11/2024	01/15/2024
Nickel	12.1	0.868	"	"	"	"	"
Selenium	0.303	0.0868	"	"	"	"	"
Silver	ND	0.0868	"	"	"	"	"
Zinc	83.8	8.68	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728448	01/10/2024	01/23/2024
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Jordan A. Bynon, Project Manager





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Project Number: [none]  
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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 B4A1201 - EPA 3550B

Blank (B4A1201-BLK1)

Prepared: 01/12/2024 Analyzed: 01/16/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.1	50-150			

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Jordan A. Bynon, Project Manager





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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 B4A1201 - EPA 3550B

LCS (B4A1201-BS1)

Prepared: 01/12/2024 Analyzed: 01/16/2024

Diesel (C10-C28)	941	50.0	mg/kg	1000		94.1	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.9	50-150			

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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
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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 B4A1201 - EPA 3550B

Matrix Spike (B4A1201-MS1)

Source: Y401236-01

Prepared: 01/12/2024 Analyzed: 01/16/2024

Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130
Surrogate: o-Terphenyl	50		"	49.8		101	50-150

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Project Number: [none]  
Project: Noble - Wilmoth #14-3

**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 B4A1201 - EPA 3550B**

**Matrix Spike Dup (B4A1201-MSD1)**

**Source: Y401236-01**

Prepared: 01/12/2024 Analyzed: 01/16/2024

Diesel (C10-C28)	911	50.0	mg/kg	1000	ND	91.1	70-130	16.2	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	12.2	35	
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

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Andrew Newberry  
Project Number: [none]  
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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 B4A1205 - EPA 5030 (soil)

Blank (B4A1205-BLK1)

Prepared: 01/12/2024 Analyzed: 01/12/2024

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	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.7	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A1205 - EPA 5030 (soil)

**LCS (B4A1205-BS1)**

Prepared: 01/12/2024 Analyzed: 01/12/2024

1,2,4-Trimethylbenzene	0.0954	0.00200	mg/kg	0.100		95.4	70-130			
1,3,5-Trimethylbenzene	0.0967	0.00200	"	0.100		96.7	70-130			
Benzene	0.113	0.00200	"	0.100		113	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0909	0.00380	"	0.100		90.9	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.0929	0.00200	"	0.100		92.9	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.9	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A1205 - EPA 5030 (soil)**

**Matrix Spike (B4A1205-MS1)**

**Source: Y401228-01**

Prepared: 01/12/2024 Analyzed: 01/12/2024

1,2,4-Trimethylbenzene	0.0824	0.00200	mg/kg	0.100	ND	82.4	70-130
1,3,5-Trimethylbenzene	0.0811	0.00200	"	0.100	ND	81.1	70-130
Benzene	0.103	0.00200	"	0.100	ND	103	70-130
Ethylbenzene	0.0845	0.00200	"	0.100	ND	84.5	70-130
Naphthalene	0.0952	0.00380	"	0.100	ND	95.2	70-130
Toluene	0.0941	0.00200	"	0.100	ND	94.1	70-130
o-Xylene	0.0831	0.00200	"	0.100	ND	83.1	70-130
m,p-Xylene	0.169	0.00400	"	0.200	ND	84.7	70-130
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130
Surrogate: Toluene-d8	0.11		"	0.125		91.4	70-130
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.6	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 - Wilmoth #14-3

**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 B4A1205 - EPA 5030 (soil)

Matrix Spike Dup (B4A1205-MSD1)

Source: Y401228-01

Prepared: 01/12/2024 Analyzed: 01/12/2024

1,2,4-Trimethylbenzene	0.0504	0.00200	mg/kg	0.100	ND	50.4	70-130	48.2	20	QM-07
1,3,5-Trimethylbenzene	0.0492	0.00200	"	0.100	ND	49.2	70-130	49.0	20	QM-07
Benzene	0.0685	0.00200	"	0.100	ND	68.5	70-130	40.0	20	QM-07
Ethylbenzene	0.0519	0.00200	"	0.100	ND	51.9	70-130	47.9	20	QM-07
Naphthalene	0.0588	0.00380	"	0.100	ND	58.8	70-130	47.3	20	QM-07
Toluene	0.0640	0.00200	"	0.100	ND	64.0	70-130	38.1	20	QM-07
o-Xylene	0.0520	0.00200	"	0.100	ND	52.0	70-130	46.0	20	QM-07
m,p-Xylene	0.107	0.00400	"	0.200	ND	53.4	70-130	45.4	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15	"	"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12	"	"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11	"	"	0.125		90.0	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 - Wilmoth #14-3

**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 B4A1134 - EPA 3050B**

**Blank (B4A1134-BLK1)**

Prepared: 01/11/2024 Analyzed: 01/15/2024

Arsenic	ND	0.0100	mg/kg
Barium	ND	1.00	"
Cadmium	ND	0.0100	"
Copper	ND	1.00	"
Lead	ND	0.100	"
Nickel	ND	0.100	"
Selenium	ND	0.0100	"
Silver	ND	0.0100	"
Zinc	ND	1.00	"

**LCS (B4A1134-BS1)**

Prepared: 01/11/2024 Analyzed: 01/16/2024

Arsenic	4.86	0.0100	mg/kg	5.00	97.1	80-120
Barium	468	1.00	"	500	93.6	80-120
Cadmium	5.03	0.0100	"	5.00	101	80-120
Copper	43.6	1.00	"	50.0	87.2	80-120
Lead	4.92	0.100	"	5.00	98.4	80-120
Nickel	4.40	0.100	"	5.00	88.1	80-120
Selenium	4.48	0.0100	"	5.00	89.5	80-120
Silver	4.99	0.0100	"	5.00	99.9	80-120
Zinc	49.6	1.00	"	50.0	99.2	80-120

**Matrix Spike (B4A1134-MS1)**

**Source: Y401236-01**

Prepared: 01/11/2024 Analyzed: 01/16/2024

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 - Wilmoth #14-3

**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 B4A1134 - EPA 3050B**

**Matrix Spike (B4A1134-MS1)**

**Source: Y401236-01**

Prepared: 01/11/2024 Analyzed: 01/16/2024

Arsenic	6.97	0.0880	mg/kg	4.40	2.53	101	75-125			
Barium	572	8.80	"	440	84.0	111	75-125			
Cadmium	4.96	0.0880	"	4.40	0.104	110	75-125			
Copper	57.6	8.80	"	44.0	7.66	114	75-125			
Lead	13.7	0.880	"	4.40	7.92	131	75-125			QM-07
Nickel	12.9	0.880	"	4.40	6.65	143	75-125			QM-07
Selenium	4.76	0.0880	"	4.40	0.105	106	75-125			
Silver	4.85	0.0880	"	4.40	0.0254	110	75-125			
Zinc	82.3	8.80	"	44.0	33.3	111	75-125			

**Matrix Spike Dup (B4A1134-MSD1)**

**Source: Y401236-01**

Prepared: 01/11/2024 Analyzed: 01/16/2024

Arsenic	7.84	0.0936	mg/kg	4.68	2.53	114	75-125	11.8	20	
Barium	629	9.36	"	468	84.0	116	75-125	9.46	20	
Cadmium	5.66	0.0936	"	4.68	0.104	119	75-125	13.1	20	
Copper	62.5	9.36	"	46.8	7.66	117	75-125	8.15	20	
Lead	16.1	0.936	"	4.68	7.92	175	75-125	16.5	20	QM-07
Nickel	14.3	0.936	"	4.68	6.65	162	75-125	9.67	20	QM-07
Selenium	5.13	0.0936	"	4.68	0.105	107	75-125	7.47	20	
Silver	5.46	0.0936	"	4.68	0.0254	116	75-125	11.9	20	
Zinc	91.7	9.36	"	46.8	33.3	125	75-125	10.7	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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wilmoth #14-3

**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 B4A1126 - EPA 3580**

**Blank (B4A1126-BLK1)**

Prepared: 01/11/2024 Analyzed: 01/12/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		94.9	60-130			
Surrogate: Anthracene-d10	190		"	200		94.0	60-130			
Surrogate: Pyrene-d10	180		"	200		91.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

**LCS (B4A1126-BS1)**

Prepared: 01/11/2024 Analyzed: 01/12/2024

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200		102	70-130
2-Methylnaphthalene	0.228	0.002	"	0.200		114	70-130
Acenaphthene	0.195	0.020	"	0.200		97.6	70-130
Anthracene	0.189	0.020	"	0.200		94.4	70-130

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager





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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wilmoth #14-3

**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 B4A1126 - EPA 3580**

**LCS (B4A1126-BS1)**

Prepared: 01/11/2024 Analyzed: 01/12/2024

Benzo (a) anthracene	0.183	0.005	mg/kg	0.200		91.6	70-130
Benzo (a) pyrene	0.204	0.020	"	0.200		102	70-130
Benzo (b) fluoranthene	0.215	0.020	"	0.200		108	70-130
Benzo (g,h,i) perylene	0.215	0.020	"	0.200		108	70-130
Benzo (k) fluoranthene	0.206	0.020	"	0.200		103	70-130
Chrysene	0.201	0.020	"	0.200		100	70-130
Dibenz (a,h) anthracene	0.219	0.020	"	0.200		110	70-130
Fluoranthene	0.213	0.020	"	0.200		107	70-130
Fluorene	0.199	0.020	"	0.200		99.7	70-130
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200		107	70-130
Naphthalene	0.197	0.002	"	0.200		98.4	70-130
Phenanthrene	0.200	0.020	"	0.200		100	70-130
Pyrene	0.248	0.020	"	0.200		124	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130
Surrogate: Anthracene-d10	190		"	200		95.6	60-130
Surrogate: Pyrene-d10	210		"	200		103	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130

**Matrix Spike (B4A1126-MS1)**

**Source: Y401198-01**

Prepared: 01/11/2024 Analyzed: 01/12/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	0.0006	97.0	70-130
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.4	70-130
Acenaphthene	0.203	0.020	"	0.200	ND	101	70-130
Anthracene	0.206	0.020	"	0.200	0.001	102	70-130
Benzo (a) anthracene	0.201	0.005	"	0.200	0.0005	100	70-130
Benzo (a) pyrene	0.211	0.020	"	0.200	ND	106	70-130
Benzo (b) fluoranthene	0.201	0.020	"	0.200	0.0005	100	70-130
Benzo (g,h,i) perylene	0.178	0.020	"	0.200	0.0006	88.8	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 - Wilmoth #14-3

**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 B4A1126 - EPA 3580**

**Matrix Spike (B4A1126-MS1)**

**Source: Y401198-01**

Prepared: 01/11/2024 Analyzed: 01/12/2024

Benzo (k) fluoranthene	0.196	0.020	mg/kg	0.200	0.0008	97.6	70-130			
Chrysene	0.225	0.020	"	0.200	ND	112	70-130			
Dibenz (a,h) anthracene	0.170	0.020	"	0.200	ND	85.1	70-130			
Fluoranthene	0.231	0.020	"	0.200	ND	116	70-130			
Fluorene	0.197	0.020	"	0.200	0.0003	98.6	70-130			
Indeno (1,2,3-cd) pyrene	0.175	0.020	"	0.200	ND	87.6	70-130			
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.211	0.020	"	0.200	0.0002	105	70-130			
Pyrene	0.222	0.020	"	0.200	ND	111	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.6	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**Matrix Spike Dup (B4A1126-MSD1)**

**Source: Y401198-01**

Prepared: 01/11/2024 Analyzed: 01/12/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	0.0006	96.8	70-130	0.190	20	
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	99.1	70-130	0.657	20	
Acenaphthene	0.196	0.020	"	0.200	ND	97.9	70-130	3.47	20	
Anthracene	0.209	0.020	"	0.200	0.001	104	70-130	1.46	20	
Benzo (a) anthracene	0.197	0.005	"	0.200	0.0005	98.5	70-130	1.96	20	
Benzo (a) pyrene	0.214	0.020	"	0.200	ND	107	70-130	1.19	20	
Benzo (b) fluoranthene	0.206	0.020	"	0.200	0.0005	103	70-130	2.88	20	
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	0.0006	96.0	70-130	7.74	20	
Benzo (k) fluoranthene	0.191	0.020	"	0.200	0.0008	95.3	70-130	2.34	20	
Chrysene	0.203	0.020	"	0.200	ND	102	70-130	10.0	20	
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	ND	99.7	70-130	15.8	20	
Fluoranthene	0.222	0.020	"	0.200	ND	111	70-130	3.95	20	

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager





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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wilmoth #14-3

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 B4A1126 - EPA 3580

Matrix Spike Dup (B4A1126-MSD1)

Source: Y401198-01

Prepared: 01/11/2024 Analyzed: 01/12/2024

Fluorene	0.197	0.020	mg/kg	0.200	0.0003	98.3	70-130	0.255	20	
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200	ND	109	70-130	21.4	20	QR-02
Naphthalene	0.203	0.002	"	0.200	ND	101	70-130	1.85	20	
Phenanthrene	0.208	0.020	"	0.200	0.0002	104	70-130	1.44	20	
Pyrene	0.226	0.020	"	0.200	ND	113	70-130	1.75	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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 - Wilmoth #14-3

## 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 B4A1509 - Saturated Paste Metals

#### Blank (B4A1509-BLK1)

Prepared: 01/15/2024 Analyzed: 01/17/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	1.00	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	1.00	"

#### Duplicate (B4A1509-DUP1)

Source: Y311683-03

Prepared: 01/15/2024 Analyzed: 01/17/2024

Calcium PPM	24.6	10.0	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	4.15	10.0	mg/L
Sodium PPM	6.55	10.0	"

24.5	0.448	50
ND		200
4.20	1.20	50
6.57	0.305	50

### Batch B4A1514 - DTPA Sorbitol Preparation

#### Blank (B4A1514-BLK1)

Prepared: 01/15/2024 Analyzed: 01/17/2024

Boron	ND	0.100	mg/L
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#### Duplicate (B4A1514-DUP1)

Source: Y401198-15

Prepared: 01/15/2024 Analyzed: 01/17/2024

Boron	1.20	0.102	mg/L
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1.24	3.11	50
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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 - Wilmoth #14-3

**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 B4A1605 - Saturated Paste pH/EC**

**Blank (B4A1605-BLK1)**

Prepared: 01/16/2024 Analyzed: 01/16/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4A1605-DUP1)**

**Source: Y311683-03**

Prepared: 01/16/2024 Analyzed: 01/16/2024

pH	8.23		pH Units	8.22		0.122	25
Specific Conductance (EC)	0.189	0.00500	mmhos/cm	0.206		8.55	25

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 - Wilmoth #14-3

**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
<b>Batch L728448 -</b>										
<b>DUP (L 81239-DUP)</b>		<b>Source: 81239</b>			Prepared: Analyzed: 01/23/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
<b>MS (L 81239-MS)</b>		<b>Source: 81239</b>			Prepared: Analyzed: 01/23/2024					
Chromium, Hexavalent	33.3	2.5	mg/Kg	39.5	< 0.244	84	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 01/23/2024					
Chromium, Hexavalent	6.22	0.5	mg/Kg	8		78	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 01/23/2024					
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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wilmoth #14-3

## Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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Jordan A. Bynon, Project Manager