



October 02, 2023

**Eagle Environmental Consulting, LLC**

**Martin C Eckert III**

**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. September 19, 2023. This project is associated with Origins project number Y309399-01.

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.

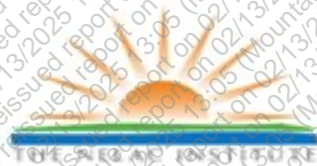
Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wilmoth #14-3

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@4	Y309399-01	Soil	September 19, 2023 9:10	09/19/2023 14:10
FL-SS-05@4	Y309399-02	Soil	September 19, 2023 10:15	09/19/2023 14:10

### Chain of Custody Modification Request

On 9/22/2023, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y309399 requesting that Table 915 Metals be added to the analysis. Requested modifications to the chain of custody were made by Jordan Bynon on 9/22/2023.

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon, Project Manager







# ORIGINS

## LABORATORY, INC

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

Martin C Eckert III  
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: 430939A

Client: Eagle

Client Project ID: Wilmoth #14-3

Checklist Completed by: EHS

Shipped Via: HD

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

Date/time completed: 9/19/23

Airbill #: N/A

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

☐ Water ☐ Other:

Cooler Number/Temperature: 155 °C 1 °C 1 °C (Describe)

Thermometer ID: 1004

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to 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"/>	
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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

9/20/23  
Date/Time Reviewed

Origins Laboratory, Inc.

*Byron*

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Jordan A. Bynon, Project Manager





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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wilmoth #14-3

FL-SS-01@4'  
9/19/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309399-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	1.35	0.0990	mg/L	1	B312206	09/22/2023	09/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B312001	09/20/2023	09/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.0 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B312058	09/20/2023	09/22/2023	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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Jordan A. Bynon, Project Manager





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Martin C Eckert III  
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FL-SS-01@4'  
9/19/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309399-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	B3I205	09/20/2023	09/22/2023
Surrogate: Toluene-d8	96.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.56	0.499	meq/L	10	[CALC]	09/25/2023	09/27/2023
Magnesium	1.52	0.823	"	"	"	"	"
Sodium	9.57	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I2041	09/20/2023	09/28/2023	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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Jordan A. Bynon, Project Manager



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9/19/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309399-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND	0.020	mg/kg	1	B3I2041	09/20/2023	09/28/2023	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.3 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	104 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	91.1 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.15	pH Units	1	B3I2514	09/25/2023	09/26/2023
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**SAR by 20B Saturated Paste**

SAR	6.00	0.0100	SAR	1	B3I2508	09/25/2023	09/27/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.58	0.00500	mmhos/cm	1	B3I2514	09/25/2023	09/26/2023
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**Table 915 metals by EPA 6020B**

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FL-SS-01@4'  
9/19/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309399-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.18	0.0841	mg/kg	10	B312229	09/22/2023	09/26/2023
Barium	244	8.41	"	"	"	"	"
Cadmium	0.190	0.0841	"	"	"	"	"
Copper	14.8	8.41	"	"	"	"	"
Lead	12.7	8.41	"	"	"	"	"
Nickel	12.9	8.41	"	"	"	"	"
Selenium	0.159	0.0841	"	"	"	"	"
Silver	ND	0.0841	"	"	"	"	"
Zinc	ND	84.1	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L707179	09/19/2023	09/27/2023
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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 - Wilmoth #14-3

FL-SS-05@4'

9/19/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309399-02 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.435	0.0999	mg/L	1	B312206	09/22/2023	09/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B312001	09/20/2023	09/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.7 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B312058	09/20/2023	09/22/2023	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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Jordan A. Bynon, Project Manager





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FL-SS-05@4'

9/19/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309399-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	B3I205	09/20/2023	09/22/2023
Surrogate: Toluene-d8	93.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.43	0.499	meq/L	10	[CALC]	09/25/2023	09/27/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.94	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I2041	09/20/2023	09/29/2023	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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FL-SS-05@4'

9/19/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y309399-02 (Soil)

### PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3I2041	09/20/2023	09/29/2023	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.3 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	96.1 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	93.6 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.6 %	60-130	"	"	"	"	"	"

### pH in Soil by 9045D

pH	8.15	pH Units	1	B3I2514	09/25/2023	09/26/2023
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### SAR by 20B Saturated Paste

SAR	1.95	0.0100	SAR	1	B3I2508	09/25/2023	09/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.430	0.00500	mmhos/cm	1	B3I2514	09/25/2023	09/26/2023
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### Table 915 metals by EPA 6020B

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FL-SS-05@4'

9/19/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y309399-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.50	0.0863	mg/kg	10	B312229	09/22/2023	09/27/2023
Barium	86.0	8.63	"	"	"	"	"
Cadmium	0.129	0.0863	"	"	"	"	"
Copper	ND	8.63	"	"	"	"	"
Lead	ND	8.63	"	"	"	"	"
Nickel	ND	8.63	"	"	"	"	"
Selenium	0.0950	0.0863	"	"	"	"	"
Silver	ND	0.0863	"	"	"	"	"
Zinc	ND	86.3	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L707179	09/19/2023	09/27/2023
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Jordan A. Bynon, Project Manager





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Martin C Eckert III  
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 B3I2001 - EPA 3550B

Blank (B3I2001-BLK1)

Prepared: 09/20/2023 Analyzed: 09/22/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager





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Martin C Eckert III  
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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 B3I2001 - EPA 3550B**

**LCS (B3I2001-BS1)**

Prepared: 09/20/2023 Analyzed: 09/22/2023

Diesel (C10-C28)	961	50.0	mg/kg	1000		96.1	70-130			
Residual Range Organics (C28-C40)	886	200	"	1000		88.6	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

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 - 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 B3I2001 - EPA 3550B**

**Matrix Spike (B3I2001-MS1)**

**Source: Y309391-02**

Prepared: 09/20/2023 Analyzed: 09/22/2023

Diesel (C10-C28)	925	50.0	mg/kg	1000	ND	92.5	70-130
Residual Range Organics (C28-C40)	872	200	"	1000	ND	87.2	70-130
Surrogate: o-Terphenyl	53		"	49.8		106	50-150

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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 B3I2001 - EPA 3550B**

**Matrix Spike Dup (B3I2001-MSD1)**

**Source: Y309391-02**

Prepared: 09/20/2023 Analyzed: 09/22/2023

Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	8.72	35	
Residual Range Organics (C28-C40)	945	200	"	1000	ND	94.5	70-130	8.09	35	
Surrogate: o-Terphenyl	46		"	49.8		92.3	50-150			

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Jordan A. Bynon, Project Manager





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Martin C Eckert III  
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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 B3I2058 - EPA 5030 (soil)**

**Blank (B3I2058-BLK1)**

Prepared: 09/20/2023 Analyzed: 09/21/2023

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	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	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 - 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 B312058 - EPA 5030 (soil)

**LCS (B312058-BS1)**

Prepared: 09/20/2023 Analyzed: 09/21/2023

1,2,4-Trimethylbenzene	0.0877	0.00200	mg/kg	0.100		87.7	70-130			
1,3,5-Trimethylbenzene	0.0880	0.00200	"	0.100		88.0	70-130			
Benzene	0.0800	0.00200	"	0.100		80.0	70-130			
Ethylbenzene	0.0814	0.00200	"	0.100		81.4	70-130			
Naphthalene	0.0822	0.00380	"	0.100		82.2	70-130			
Toluene	0.0841	0.00200	"	0.100		84.1	70-130			
o-Xylene	0.0813	0.00200	"	0.100		81.3	70-130			
m,p-Xylene	0.166	0.00400	"	0.200		83.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	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





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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
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 B3I2058 - EPA 5030 (soil)

**Matrix Spike (B3I2058-MS1)**

Source: Y309397-02

Prepared: 09/20/2023 Analyzed: 09/21/2023

1,2,4-Trimethylbenzene	0.0859	0.00200	mg/kg	0.100	ND	85.9	70-130
1,3,5-Trimethylbenzene	0.0857	0.00200	"	0.100	ND	85.7	70-130
Benzene	0.0816	0.00200	"	0.100	ND	81.6	70-130
Ethylbenzene	0.0844	0.00200	"	0.100	ND	84.4	70-130
Naphthalene	0.0834	0.00380	"	0.100	ND	83.4	70-130
Toluene	0.0841	0.00200	"	0.100	ND	84.1	70-130
o-Xylene	0.0857	0.00200	"	0.100	ND	85.7	70-130
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.5	70-130
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager





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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
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 B3I2058 - EPA 5030 (soil)

**Matrix Spike Dup (B3I2058-MSD1)**

Source: Y309397-02

Prepared: 09/20/2023 Analyzed: 09/21/2023

1,2,4-Trimethylbenzene	0.0828	0.00200	mg/kg	0.100	ND	82.8	70-130	3.65	20	
1,3,5-Trimethylbenzene	0.0822	0.00200	"	0.100	ND	82.2	70-130	4.19	20	
Benzene	0.0818	0.00200	"	0.100	ND	81.8	70-130	0.171	20	
Ethylbenzene	0.0811	0.00200	"	0.100	ND	81.1	70-130	3.99	20	
Naphthalene	0.0854	0.00380	"	0.100	ND	85.4	70-130	2.42	20	
Toluene	0.0833	0.00200	"	0.100	ND	83.3	70-130	0.908	20	
o-Xylene	0.0817	0.00200	"	0.100	ND	81.7	70-130	4.78	20	
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.6	70-130	4.67	20	
Surrogate: 1,2-Dichloroethane-d4	0.12	"	"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12	"	"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12	"	"	0.125		97.7	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 - 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 B3I2229 - EPA 3050B**

**Blank (B3I2229-BLK1)**

Prepared: 09/22/2023 Analyzed: 09/26/2023

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 (B3I2229-BS1)**

Prepared: 09/22/2023 Analyzed: 09/26/2023

Arsenic	0.0402	0.000100	mg/kg	0.0500	80.4	80-120
Barium	4.14	0.0100	"	5.00	82.8	80-120
Cadmium	0.0409	0.000100	"	0.0500	81.8	80-120
Copper	0.545	0.0100	"	0.500	109	80-120
Lead	0.0411	0.0100	"	0.0500	82.1	80-120
Nickel	0.0537	0.0100	"	0.0500	107	80-120
Selenium	0.0514	0.000100	"	0.0500	103	80-120
Silver	0.0532	0.000100	"	0.0500	106	80-120
Zinc	0.524	0.100	"	0.500	105	80-120

**Matrix Spike (B3I2229-MS1)**

**Source: Y309497-07**

Prepared: 09/22/2023 Analyzed: 09/26/2023

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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 - 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 B3I2229 - EPA 3050B**

**Matrix Spike (B3I2229-MS1)**

**Source: Y309497-07**

Prepared: 09/22/2023 Analyzed: 09/26/2023

Arsenic	4.55	0.0875	mg/kg	4.37	1.20	76.6	75-125			
Barium	411	8.75	"	437	43.1	84.2	75-125			
Cadmium	3.70	0.0875	"	4.37	0.0392	83.7	75-125			
Copper	37.8	8.75	"	43.7	2.15	81.6	75-125			
Lead	6.81	8.75	"	4.37	3.54	74.8	75-125			QM-07
Nickel	6.28	8.75	"	4.37	3.24	69.5	75-125			QM-07
Selenium	3.33	0.0875	"	4.37	0.0373	75.3	75-125			
Silver	3.28	0.0875	"	4.37	0.0153	74.6	75-125			QM-07
Zinc	47.2	87.5	"	43.7	15.0	73.7	75-125			QM-07

**Matrix Spike Dup (B3I2229-MSD1)**

**Source: Y309497-07**

Prepared: 09/22/2023 Analyzed: 09/26/2023

Arsenic	4.99	0.0947	mg/kg	4.73	1.20	80.2	75-125	9.32	20	
Barium	452	9.47	"	473	43.1	86.4	75-125	9.46	20	
Cadmium	4.03	0.0947	"	4.73	0.0392	84.2	75-125	8.49	20	
Copper	41.5	9.47	"	47.3	2.15	83.1	75-125	9.22	20	
Lead	7.25	9.47	"	4.73	3.54	78.5	75-125	6.32	20	
Nickel	6.65	9.47	"	4.73	3.24	72.1	75-125	5.75	20	QM-07
Selenium	3.55	0.0947	"	4.73	ND	74.9	75-125	6.37	20	QM-07
Silver	3.63	0.0947	"	4.73	0.0153	76.3	75-125	10.2	20	
Zinc	51.1	94.7	"	47.3	15.0	76.2	75-125	7.83	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 - 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 B3I2041 - EPA 3580

#### Blank (B3I2041-BLK1)

Prepared: 09/20/2023 Analyzed: 09/28/2023

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	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	180		"	200		91.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

#### LCS (B3I2041-BS1)

Prepared: 09/20/2023 Analyzed: 09/28/2023

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200		105	70-130
2-Methylnaphthalene	0.204	0.002	"	0.200		102	70-130
Acenaphthene	0.180	0.020	"	0.200		90.1	70-130
Anthracene	0.177	0.020	"	0.200		88.6	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

Martin C Eckert III  
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 B3I2041 - EPA 3580

#### LCS (B3I2041-BS1)

Prepared: 09/20/2023 Analyzed: 09/28/2023

Benzo (a) anthracene	0.163	0.005	mg/kg	0.200		81.3	70-130
Benzo (a) pyrene	0.162	0.020	"	0.200		81.2	70-130
Benzo (b) fluoranthene	0.164	0.020	"	0.200		82.2	70-130
Benzo (g,h,i) perylene	0.160	0.020	"	0.200		80.0	70-130
Benzo (k) fluoranthene	0.161	0.020	"	0.200		80.6	70-130
Chrysene	0.186	0.020	"	0.200		92.8	70-130
Dibenz (a,h) anthracene	0.172	0.020	"	0.200		86.1	70-130
Fluoranthene	0.174	0.020	"	0.200		87.2	70-130
Fluorene	0.182	0.020	"	0.200		91.2	70-130
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200		85.1	70-130
Naphthalene	0.203	0.002	"	0.200		102	70-130
Phenanthrene	0.169	0.020	"	0.200		84.5	70-130
Pyrene	0.157	0.020	"	0.200		78.6	70-130
Surrogate: Fluorene-d10	180		ug/kg	200		89.1	60-130
Surrogate: Anthracene-d10	180		"	200		89.9	60-130
Surrogate: Pyrene-d10	150		"	200		75.8	60-130
Surrogate: Benzo (a) pyrene-d12	160		"	200		81.2	60-130

#### Matrix Spike (B3I2041-MS1)

Source: Y309391-02

Prepared: 09/20/2023 Analyzed: 09/28/2023

1-Methylnaphthalene	0.213	0.008	mg/kg	0.200	ND	107	70-130
2-Methylnaphthalene	0.212	0.008	"	0.200	ND	106	70-130
Acenaphthene	0.202	0.080	"	0.200	ND	101	70-130
Anthracene	0.209	0.080	"	0.200	0.003	103	70-130
Benzo (a) anthracene	0.185	0.020	"	0.200	0.005	90.0	70-130
Benzo (a) pyrene	0.209	0.080	"	0.200	0.014	97.7	70-130
Benzo (b) fluoranthene	0.200	0.080	"	0.200	0.013	93.2	70-130
Benzo (g,h,i) perylene	0.209	0.080	"	0.200	0.011	99.0	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 - 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 B3I2041 - EPA 3580**

**Matrix Spike (B3I2041-MS1)**

**Source: Y309391-02**

Prepared: 09/20/2023 Analyzed: 09/28/2023

Benzo (k) fluoranthene	0.208	0.080	mg/kg	0.200	0.007	101	70-130			
Chrysene	0.218	0.080	"	0.200	0.011	104	70-130			
Dibenz (a,h) anthracene	0.206	0.080	"	0.200	ND	103	70-130			
Fluoranthene	0.199	0.080	"	0.200	0.006	96.2	70-130			
Fluorene	0.206	0.080	"	0.200	ND	103	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.080	"	0.200	0.012	91.8	70-130			
Naphthalene	0.212	0.008	"	0.200	ND	106	70-130			
Phenanthrene	0.202	0.080	"	0.200	0.003	99.7	70-130			
Pyrene	0.207	0.080	"	0.200	0.010	98.6	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.8	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	180		"	200		90.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

**Matrix Spike Dup (B3I2041-MSD1)**

**Source: Y309391-02**

Prepared: 09/20/2023 Analyzed: 09/28/2023

1-Methylnaphthalene	0.210	0.008	mg/kg	0.200	ND	105	70-130	1.40	20	
2-Methylnaphthalene	0.204	0.008	"	0.200	ND	102	70-130	4.10	20	
Acenaphthene	0.195	0.080	"	0.200	ND	97.3	70-130	3.60	20	
Anthracene	0.217	0.080	"	0.200	0.003	107	70-130	3.79	20	
Benzo (a) anthracene	0.183	0.020	"	0.200	0.005	88.7	70-130	1.49	20	
Benzo (a) pyrene	0.199	0.080	"	0.200	0.014	92.6	70-130	5.06	20	
Benzo (b) fluoranthene	0.207	0.080	"	0.200	0.013	96.8	70-130	3.56	20	
Benzo (g,h,i) perylene	0.201	0.080	"	0.200	0.011	95.1	70-130	3.82	20	
Benzo (k) fluoranthene	0.194	0.080	"	0.200	0.007	93.4	70-130	7.26	20	
Chrysene	0.209	0.080	"	0.200	0.011	99.2	70-130	4.35	20	
Dibenz (a,h) anthracene	0.201	0.080	"	0.200	ND	100	70-130	2.68	20	
Fluoranthene	0.195	0.080	"	0.200	0.006	94.5	70-130	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 - 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 B3I2041 - EPA 3580**

**Matrix Spike Dup (B3I2041-MSD1)**

**Source: Y309391-02**

Prepared: 09/20/2023 Analyzed: 09/28/2023

Fluorene	0.198	0.080	mg/kg	0.200	ND	99.1	70-130	3.78	20	
Indeno (1,2,3-cd) pyrene	0.222	0.080	"	0.200	0.012	105	70-130	12.7	20	
Naphthalene	0.210	0.008	"	0.200	ND	105	70-130	1.14	20	
Phenanthrene	0.198	0.080	"	0.200	0.003	97.7	70-130	1.98	20	
Pyrene	0.204	0.080	"	0.200	0.010	97.0	70-130	1.54	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.0	60-130			
Surrogate: Anthracene-d10	190		"	200		96.5	60-130			
Surrogate: Pyrene-d10	180		"	200		91.5	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.2	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

Martin C Eckert III  
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 B3I2206 - DTPA Sorbitol Preparation**

**Blank (B3I2206-BLK1)**

Prepared: 09/22/2023 Analyzed: 09/26/2023

Boron ND 0.100 mg/L

**Duplicate (B3I2206-DUP1)**

**Source: Y309398-01**

Prepared: 09/22/2023 Analyzed: 09/26/2023

Boron 0.104 0.100 mg/L

**Batch B3I2508 - Saturated Paste Metals**

**Blank (B3I2508-BLK1)**

Prepared: 09/25/2023 Analyzed: 09/27/2023

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B3I2508-DUP1)**

**Source: Y309398-01**

Prepared: 09/25/2023 Analyzed: 09/27/2023

Calcium PPM 16.1 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM 3.73 10.0 mg/L

Sodium PPM 123 10.0 "

Origins Laboratory, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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 - 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 B3I2514 - Saturated Paste pH/EC**

**Blank (B3I2514-BLK1)**

Prepared: 09/25/2023 Analyzed: 09/26/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3I2514-DUP1)**

**Source: Y309398-01**

Prepared: 09/25/2023 Analyzed: 09/26/2023

pH	8.48		pH Units	8.52		0.471	25
Specific Conductance (EC)	0.441	0.00500	mmhos/cm	0.423		4.31	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

Martin C Eckert III  
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 L707179 -</b>										
<b>DUP (L 86619-DUP)</b>		<b>Source: 86619</b>			Prepared: Analyzed: 09/27/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
<b>MS (L 86619-MS)</b>		<b>Source: 86619</b>			Prepared: Analyzed: 09/27/2023					
Chromium, Hexavalent	37.3	2.56	mg/Kg	41	<1.25	91	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 09/27/2023					
Chromium, Hexavalent	6.71	0.5	mg/Kg	8		84	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 09/27/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg			-				

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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 - Wilmoth #14-3

### Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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.

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Jordan A. Bynon, Project Manager