



August 25, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Shelton #18-25XX

Project Number - [none]

Attached are your analytical results for Noble - Shelton #18-25XX received by Origins Laboratory, Inc. July 27, 2023. This project is associated with Origins project number Y307618-01.

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 - Shelton #18-25XX

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y307618-01	Soil	July 27, 2023 9:36	07/27/2023 15:23
WH-FS-01@6' SAR Rerun 1	Y307618-02	Soil	July 27, 2023 9:36	07/27/2023 15:23
WH-FS-01@6' SAR Rerun 2	Y307618-03	Soil	July 27, 2023 9:36	07/27/2023 15:23

A pH, EC, and SAR rerun were requested per Grace's email on 08/04/2023. 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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton #18-25XX

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

Sample Receipt Checklist

Origins Work Order: Y307618 Client: Eagle
 Client Project ID: Shelton #18-25 XX
 Checklist Completed by: JSH/EMS Shipped Via: TVD
 Date/time completed: 7/28/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 116 °C _____ °C _____ °C (Describe) _____ °C
 Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
Do samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTS due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (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"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 7/31/23

Origins Laboratory, Inc.


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Jordan A. Bynon, Project Manager

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton #18-25XX

WH-FS-01@6'
7/27/2023 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307618-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.08		0.991	mg/L	10	B3G2905	07/29/2023	08/01/2023	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl 94.8% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3G3108	07/31/2023	08/02/2023	U
1,3,5-Trimethylbenzene	0.00232		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.0183		0.00200	"	"	"	"	"	
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.00566		0.00200	"	"	"	"	"	
Xylenes, total	0.0325		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105% 70-130 " " "

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WH-FS-01@6'
 7/27/2023 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307618-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B3G31 08	07/31/2023	08/02/2023	
Surrogate: 4-Bromofluorobenzene	94.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		4.99	meq/L	100	[CALC]	07/29/2023	08/01/2023	
Magnesium	ND		8.23	"	"	"	"	"	
Sodium	27.3		4.35	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695982	08/01/2023	08/01/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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WH-FS-01@6'
7/27/2023 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y307618-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695982	08/01/2023	08/01/2023	
Indeno(1,2,3-cd)pyrene	0.00134	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	64.3 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	75.7 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	59.7 %		29-110	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.47			pH Units	1	B3G2909	07/29/2023	08/01/2023	
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SAR by 20B Saturated Paste

SAR	15.6			SAR	1	B3G2903	07/29/2023	08/01/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.67		0.00500	mmhos/cm	1	B3G2909	07/29/2023	08/01/2023	
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WH-FS-01@6'
7/27/2023 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307618-01RE1 (Soil)

pH in Soil by 9045D

pH	8.47			pH Units	1	B3H0504	07/29/2023	08/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.05	0.00500	mmhos/cm	"	"	"	"	"	"
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WH-FS-01@6'
7/27/2023 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307618-01RE2 (Soil)

pH in Soil by 9045D

pH	8.51			pH Units	1	B3H0504	07/29/2023	08/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.01	0.00500	mmhos/cm	"	"	"	"	"	"
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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Shelton #18-25XX

WH-FS-01@6' SAR Rerun 1
7/27/2023 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307618-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.22	0.499	meq/L	10	[CALC]	08/05/2023	08/07/2023
Magnesium	4.27	0.823	"	"	"	"	"
Sodium	26.6	0.435	"	"	"	"	"

SAR by 20B Saturated Paste

SAR	14.8			SAR	1	B3H0501	"	"
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Eagle Environmental Consulting, LLC
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton #18-25XX

WH-FS-01@6' SAR Rerun 2
7/27/2023 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307618-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.02	0.499	meq/L	10	[CALC]	08/05/2023	08/07/2023
Magnesium	3.86	0.823	"	"	"	"	"
Sodium	23.9	0.435	"	"	"	"	"

SAR by 20B Saturated Paste

SAR	13.9			SAR	1	B3H0501	"	"
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton #18-25XX

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G2817 - EPA 3550B

Blank (B3G2817-BLK1)

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

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

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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 B3G2817 - EPA 3550B

LCS (B3G2817-BS1)

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

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

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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 - Shelton #18-25XX

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G2817 - EPA 3550B

Matrix Spike (B3G2817-MS1)

Source: Y307568-01

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

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

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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 B3G2817 - EPA 3550B

Matrix Spike Dup (B3G2817-MSD1)

Source: Y307568-01

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

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

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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 B3G3108 - EPA 5030 (soil)

Blank (B3G3108-BLK1)

Prepared: 07/31/2023 Analyzed: 08/01/2023

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		96.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.6	70-130			

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Martin C Eckert III
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 Project: Noble - Shelton #18-25XX

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 B3G3108 - EPA 5030 (soil)

LCS (B3G3108-BS1)

Prepared: 07/31/2023 Analyzed: 08/01/2023

1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100		99.7	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0820	0.00200	"	0.100		82.0	70-130			
Ethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
Naphthalene	0.0986	0.00380	"	0.100		98.6	70-130			
Toluene	0.0865	0.00200	"	0.100		86.5	70-130			
o-Xylene	0.0960	0.00200	"	0.100		96.0	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 B3G3108 - EPA 5030 (soil)

Matrix Spike (B3G3108-MS1)

Source: Y307561-01

Prepared: 07/31/2023 Analyzed: 08/01/2023

1,2,4-Trimethylbenzene	0.0908	0.00200	mg/kg	0.100	ND	90.8	70-130			
1,3,5-Trimethylbenzene	0.0929	0.00200	"	0.100	ND	92.9	70-130			
Benzene	0.0753	0.00200	"	0.100	ND	75.3	70-130			
Ethylbenzene	0.0967	0.00200	"	0.100	ND	96.7	70-130			
Naphthalene	0.0929	0.00380	"	0.100	ND	92.9	70-130			
Toluene	0.0797	0.00200	"	0.100	0.000540	79.2	70-130			
o-Xylene	0.0919	0.00200	"	0.100	ND	91.9	70-130			
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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 Project Number: [none]
 Project: Noble - Shelton #18-25XX

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 B3G3108 - EPA 5030 (soil)

Matrix Spike Dup (B3G3108-MSD1)

Source: Y307561-01

Prepared: 07/31/2023 Analyzed: 08/01/2023

1,2,4-Trimethylbenzene	0.0963	0.00200	mg/kg	0.100	ND	96.3	70-130	5.86	20	
1,3,5-Trimethylbenzene	0.0990	0.00200	"	0.100	ND	99.0	70-130	6.36	20	
Benzene	0.0793	0.00200	"	0.100	ND	79.3	70-130	5.25	20	
Ethylbenzene	0.0947	0.00200	"	0.100	ND	94.7	70-130	2.15	20	
Naphthalene	0.113	0.00380	"	0.100	ND	113	70-130	19.5	20	
Toluene	0.0804	0.00200	"	0.100	0.000540	79.9	70-130	0.874	20	
o-Xylene	0.0949	0.00200	"	0.100	ND	94.9	70-130	3.19	20	
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.5	70-130	1.56	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 - Shelton #18-25XX

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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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G2903 - Saturated Paste Metals

Blank (B3G2903-BLK1)

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

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

Duplicate (B3G2903-DUP1)

Source: Y307616-09

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

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

Batch B3G2905 - DTPA Sorbitol Preparation

Blank (B3G2905-BLK1)

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

Boron	ND	0.100	mg/L							
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Duplicate (B3G2905-DUP1)

Source: Y307604-04

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

Boron	0.140	0.0999	mg/L		0.137			1.88	50	
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Batch B3H0501 - Saturated Paste Metals

Blank (B3H0501-BLK1)

Prepared: 08/05/2023 Analyzed: 08/07/2023

SAR	0.00		SAR							
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton #18-25XX

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 B3H0501 - Saturated Paste Metals

Blank (B3H0501-BLK1)

Prepared: 08/05/2023 Analyzed: 08/07/2023

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

Duplicate (B3H0501-DUP1)

Source: Y308105-11

Prepared: 08/05/2023 Analyzed: 08/07/2023

SAR	0.00		SAR		1.19			200	200	
Calcium PPM	23.3	10.0	mg/L		19.8			16.4	50	
Magnesium PPM	23.5	10.0	"		21.4			9.58	50	
Sodium PPM	33.1	10.0	"		32.0			3.25	50	

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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 - Shelton #18-25XX

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G2909 - Saturated Paste pH/EC

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

Blank (B3G2909-BLK1)

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3G2909-DUP1)

Source: Y307616-09

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

pH 8.61 pH Units 8.23 4.51 25

Specific Conductance (EC) 0.210 0.00500 mmhos/cm 0.237 12.3 25

Batch B3H0504 - Saturated Paste pH/EC

Prepared: 08/05/2023 Analyzed: 08/06/2023

Blank (B3H0504-BLK1)

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3H0504-DUP1)

Source: Y308105-11

Prepared: 08/05/2023 Analyzed: 08/06/2023

pH 8.04 pH Units 8.30 3.18 25

Specific Conductance (EC) 0.468 0.00500 mmhos/cm 0.570 19.6 25

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 - Shelton #18-25XX

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

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

MSD (L 87963-MSD-L695982)

Source: 87963

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

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

MS (L 87963-MS-L695982)

Source: 87963

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

Chrysene	0.109	0.00067	mg/Kg	0.164	0.000974	65.8	30-130			
Pyrene	0.117	0.00067	"	0.164	0.00122	70.5	30-130			
Indeno(1,2,3-cd)pyrene	0.121	0.00067	"	0.164	<0.000627	73.7	30-130			
Fluorene	0.109	0.00067	"	0.164	<0.000286	66.4	30-130			
Fluoranthene	0.113	0.00067	"	0.164	0.00138	68	30-130			
Dibenz(a,h)anthracene	0.158	0.00067	"	0.164	<0.000614	96.3	30-130			
2-Methylnaphthalene	0.0938	0.00201	"	0.164	<0.00194	57.1	30-130			
Benzo(b)fluoranthene	0.0908	0.00067	"	0.164	0.00129	54.5	30-130			

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Martin C Eckert III
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PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

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

MS (L 87963-MS-L695982)

Source: 87963

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

Benzo(a)pyrene	0.108	0.00067	mg/Kg	0.164	0.00108	65.1	30-130			
Benzo(a)anthracene	0.0983	0.00067	"	0.164	<0.000493	59.9	30-130			
Anthracene	0.116	0.00067	"	0.164	<0.000334	70.7	30-130			
Acenaphthene	0.101	0.00067	"	0.164	<0.000304	61.5	30-130			
1-Methylnaphthalene	0.0947	0.00201	"	0.164	<0.00109	57.7	30-130			
Benzo(k)fluoranthene	0.106	0.00067	"	0.164	<0.000437	64.6	30-130			
Surrogate: Nitrobenzene-d5	50.9		"	0.328	191	50.9	29-110			
Surrogate: 4-Terphenyl-d14	64.6		"	0.328	250	64.6	33-122			
Surrogate: 2-Fluorobiphenyl	53.3		"	0.328	204	53.3	33-115			

LCS (LCS-L695982)

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

Fluorene	0.112	0.00067	mg/Kg	0.167		67	30-130			
1-Methylnaphthalene	0.098	0.00201	"	0.167		58.6	30-130			
Indeno(1,2,3-cd)pyrene	0.124	0.00067	"	0.167		74.2	30-130			
Dibenz(a,h)anthracene	0.165	0.00067	"	0.167		98.8	30-130			
Pyrene	0.121	0.00067	"	0.167		72.4	30-130			
Fluoranthene	0.119	0.00067	"	0.167		71.2	30-130			
2-Methylnaphthalene	0.0972	0.00201	"	0.167		58.2	30-130			
Chrysene	0.113	0.00067	"	0.167		67.6	30-130			
Acenaphthene	0.101	0.00067	"	0.167		60.4	30-130			
Anthracene	0.119	0.00067	"	0.167		71.2	30-130			
Benzo(a)anthracene	0.107	0.00067	"	0.167		64	30-130			
Benzo(a)pyrene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(b)fluoranthene	0.0961	0.00067	"	0.167		57.5	30-130			
Benzo(k)fluoranthene	0.12	0.00067	"	0.167		71.8	30-130			
Surrogate: Nitrobenzene-d5	52.8		"	0.333		52.8	29-110			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.333		56.1	33-115			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton #18-25XX

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

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

LCS (LCS-L695982)

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

Surrogate: 4-Terphenyl-d14 67.2 mg/Kg 0.333 67.2 33-122

LRB (LRB-L695982)

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

2-Methylnaphthalene	ND	0.00201	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	51		"	0.333		51	29-110			
Surrogate: 4-Terphenyl-d14	70.5		"	0.333		70.5	33-122			
Surrogate: 2-Fluorobiphenyl	58.2		"	0.333		58.2	33-115			

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8000 W 44th Ave
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Martin C Eckert III
Project Number: [none]
Project: Noble - Shelton #18-25XX

Notes and Definitions

U Sample is Non-Detect.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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