



July 11, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Shelton RG #26-8

Project Number - [none]

Attached are your analytical results for Noble - Shelton RG #26-8 received by Origins Laboratory, Inc. June 30, 2023. This project is associated with Origins project number Y306883-01.

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 RG #26-8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y306883-01	Soil	June 30, 2023 7:50	06/30/2023 14:50
WH-SS-02@5'	Y306883-02	Soil	June 30, 2023 7:52	06/30/2023 14:50
WH-SS-03@5'	Y306883-03	Soil	June 30, 2023 7:54	06/30/2023 14:50
WH-SS-04@5'	Y306883-04	Soil	June 30, 2023 7:56	06/30/2023 14:50

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 RG #26-8

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

Sample Receipt Checklist

Origins Work Order: Y3002873 Client: Eagle
 Client Project ID: Shelton RG #26-8


Checklist Completed by: JH/MS Shipped Via: HD
 Date/time completed: 7/13/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: L 4-c / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If 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 analysis 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 be in the additional comments (above) and the case narrative.*

Reviewed by (Project Manager) JH Date/Time Reviewed 7/13/23

Origins Laboratory, Inc.


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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

WH-SS-01@5'
6/30/2023 7:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306883-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.66		0.101	mg/L	1	B3G0611	07/06/2023	07/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	32.7		25.0	mg/kg	1	B3G0501	07/05/2023	07/07/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 105% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3G0718	07/07/2023	07/07/2023	U
1,3,5-Trimethylbenzene	0.00660		0.00200	"	"	"	"	"	"
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	1.33		0.200	"	"	"	"	"	"

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

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

WH-SS-01@5'
6/30/2023 7:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306883-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B3G07 18	07/07/2023	07/07/2023	
Surrogate: 4-Bromofluorobenzene	99.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.98		0.499	meq/L	10	[CALC]	07/05/2023	07/06/2023	
Magnesium	2.57		0.823	"	"	"	"	"	
Sodium	8.25		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00383	0.00109	0.00201	mg/Kg	1	L691488	07/07/2023	07/10/2023	
2-Methylnaphthalene	0.00634	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000693	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	0.00122	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00126	0.000286	0.00067	"	"	"	"	"	

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WH-SS-01@5'
6/30/2023 7:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306883-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L691488	07/07/2023	07/10/2023	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.1 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	45.2 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	45.8 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.29			pH Units	1	B3G0513	07/05/2023	07/06/2023	
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SAR by 20B Saturated Paste

SAR	5.47			SAR	1	B3G0505	07/05/2023	07/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.29		0.00500	mmhos/cm	1	B3G0513	07/05/2023	07/06/2023	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

WH-SS-02@5'
6/30/2023 7:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306883-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.99		0.0993	mg/L	1	B3G0611	07/06/2023	07/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	99.1		25.0	mg/kg	1	B3G0501	07/05/2023	07/07/2023	
Residual Range Organics (C28-C40)	275		100	"	"	"	"	"	

Surrogate: o-Terphenyl	97.5%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3G0718	07/07/2023	07/07/2023	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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6/30/2023 7:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306883-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B3G07 18	07/07/2023	07/07/2023	
Surrogate: Toluene-d8	99.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.63		0.499	meq/L	10	[CALC]	07/05/2023	07/06/2023	
Magnesium	2.19		0.823	"	"	"	"	"	
Sodium	6.65		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00121	0.00109	0.00201	mg/Kg	1	L691600	07/08/2023	07/10/2023	J
2-Methylnaphthalene	0.00195	0.00194	0.00201	"	"	"	"	"	J
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	0.000842	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000853	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000798	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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WH-SS-02@5'
6/30/2023 7:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306883-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L691600	07/08/2023	07/10/2023	
Indeno(1,2,3-cd)pyrene	0.000733	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.2 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	45.6 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	49.5 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.46			pH Units	1	B3G0513	07/05/2023	07/06/2023	
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SAR by 20B Saturated Paste

SAR	4.81			SAR	1	B3G0505	07/05/2023	07/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.06		0.00500	mmhos/cm	1	B3G0513	07/05/2023	07/06/2023	
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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 RG #26-8

WH-SS-03@5'
6/30/2023 7:54:00AM

Origins Laboratory, Inc.
Y306883-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	1.09		0.100	mg/L	1	B3G0611	07/06/2023	07/07/2023	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G0501	07/05/2023	07/07/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	91.0%		50-150	"	"	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3G0718	07/07/2023	07/07/2023	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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WH-SS-03@5'
6/30/2023 7:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y306883-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B3G07 18	07/07/2023	07/07/2023	
Surrogate: Toluene-d8	99.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.88	0.499	meq/L	10	[CALC]		07/05/2023	07/06/2023	
Magnesium	2.15	0.823	"	"	"		"	"	
Sodium	2.69	0.435	"	"	"		"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L691600	07/08/2023	07/10/2023	
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	"	"	"	"	"	

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WH-SS-03@5'
6/30/2023 7:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306883-03 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L691600	07/08/2023	07/10/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	59.5 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	53 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.21			pH Units	1	B3G0513	07/05/2023	07/06/2023	
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SAR by 20B Saturated Paste

SAR	1.90			SAR	1	B3G0505	07/05/2023	07/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.689		0.00500	mmhos/cm	1	B3G0513	07/05/2023	07/06/2023	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

WH-SS-04@5'
6/30/2023 7:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306883-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.649		0.0984	mg/L	1	B3G0611	07/06/2023	07/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G0501	07/05/2023	07/07/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 97.6% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3G0718	07/07/2023	07/07/2023	U
1,3,5-Trimethylbenzene	0.00238		0.00200	"	"	"	"	"	
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

Origins Laboratory, Inc.


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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

WH-SS-04@5'
6/30/2023 7:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306883-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B3G07 18	07/07/2023	07/07/2023	
Surrogate: Toluene-d8	97.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.758		0.499	meq/L	10	[CALC]	07/05/2023	07/06/2023	
Magnesium	1.04		0.823	"	"	"	"	"	
Sodium	9.27		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L691600	07/08/2023	07/10/2023	
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	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

WH-SS-04@5'
6/30/2023 7:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306883-04 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L691600	07/08/2023	07/10/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.2 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	62 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	51.8 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.51			pH Units	1	B3G0513	07/05/2023	07/06/2023	
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SAR by 20B Saturated Paste

SAR	9.78			SAR	1	B3G0505	07/05/2023	07/06/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.972		0.00500	mmhos/cm	1	B3G0513	07/05/2023	07/06/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 B3G0501 - EPA 3550B

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

Blank (B3G0501-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 B3G0501 - EPA 3550B

LCS (B3G0501-BS1)

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

Diesel (C10-C28)	896	50.0	mg/kg	1000		89.6	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.9	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 B3G0501 - EPA 3550B

Matrix Spike (B3G0501-MS1)

Source: Y306881-01

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

Diesel (C10-C28)	2160	50.0	mg/kg	1000	1480	67.6	70-130			QM-07
Residual Range Organics (C28-C40)	1170	200	"	1000	223	94.7	70-130			
Surrogate: o-Terphenyl	69		"	49.8		139	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 B3G0501 - EPA 3550B

Matrix Spike Dup (B3G0501-MSD1)

Source: Y306881-01

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

Diesel (C10-C28)	2290	50.0	mg/kg	1000	1480	80.6	70-130	5.86	35	
Residual Range Organics (C28-C40)	1200	200	"	1000	223	97.4	70-130	2.26	35	
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 B3G0718 - EPA 5030 (soil)

Blank (B3G0718-BLK1)

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

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		97.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.4	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 RG #26-8

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 B3G0718 - EPA 5030 (soil)

LCS (B3G0718-BS1)

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

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0925	0.00200	"	0.100		92.5	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.207	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	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 RG #26-8

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 B3G0718 - EPA 5030 (soil)

Matrix Spike (B3G0718-MS1)

Source: Y306881-02

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

1,2,4-Trimethylbenzene	0.0898	0.00200	mg/kg	0.100	ND	89.8	70-130			
1,3,5-Trimethylbenzene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
Benzene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0920	0.00380	"	0.100	ND	92.0	70-130			
Toluene	0.0939	0.00200	"	0.100	ND	93.9	70-130			
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 B3G0718 - EPA 5030 (soil)

Matrix Spike Dup (B3G0718-MSD1)

Source: Y306881-02

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

1,2,4-Trimethylbenzene	0.0508	0.00200	mg/kg	0.100	ND	50.8	70-130	55.4	20	QM-07
1,3,5-Trimethylbenzene	0.0629	0.00200	"	0.100	ND	62.9	70-130	43.2	20	QM-07
Benzene	0.0653	0.00200	"	0.100	ND	65.3	70-130	25.4	20	QM-07
Ethylbenzene	0.0683	0.00200	"	0.100	ND	68.3	70-130	39.0	20	QM-07
Naphthalene	0.0634	0.00380	"	0.100	ND	63.4	70-130	36.8	20	QM-07
Toluene	0.0663	0.00200	"	0.100	ND	66.3	70-130	34.4	20	QM-07
o-Xylene	0.0688	0.00200	"	0.100	ND	68.8	70-130	37.4	20	QM-07
m,p-Xylene	0.127	0.00400	"	0.200	ND	63.4	70-130	43.9	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 RG #26-8

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 B3G0505 - Saturated Paste Metals

Blank (B3G0505-BLK1)

Prepared: 07/05/2023 Analyzed: 07/06/2023

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

Duplicate (B3G0505-DUP1)

Source: Y306882-04

Prepared: 07/05/2023 Analyzed: 07/06/2023

Calcium PPM	24.4	10.0	mg/L		23.1		5.48	50		
SAR	0.00		SAR		0.383		200	200		
Magnesium PPM	2.51	10.0	mg/L		2.45		2.42	50		
Sodium PPM	7.97	10.0	"		7.24		9.60	50		

Batch B3G0611 - DTPA Sorbitol Preparation

Blank (B3G0611-BLK1)

Prepared: 07/06/2023 Analyzed: 07/07/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3G0611-DUP1)

Source: Y306883-01

Prepared: 07/06/2023 Analyzed: 07/07/2023

Boron	1.76	0.0985	mg/L		1.66		5.62	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 B3G0513 - Saturated Paste pH/EC

Blank (B3G0513-BLK1)

Prepared: 07/05/2023 Analyzed: 07/06/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3G0513-DUP1)

Source: Y306882-04

Prepared: 07/05/2023 Analyzed: 07/06/2023

Specific Conductance (EC)	0.226	0.00500	mmhos/cm	0.211	6.92	25
pH	8.26		pH Units	8.30	0.483	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 - Shelton RG #26-8

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 L691600 - 3550B

MSD (L 96722-MSD-L691600)

Source: 96722

Prepared: 07/08/2023 Analyzed: 07/10/2023

Indeno(1,2,3-cd)pyrene	0.121	0.00067	mg/Kg	0.164	<0.000627	73.7	30-130	19.4	30	
Anthracene	0.118	0.00067	"	0.164	<0.000334	71.9	30-130	9.6	30	
Pyrene	0.116	0.00067	"	0.164	<0.000643	70.7	30-130	0	30	
Fluoranthene	0.116	0.00067	"	0.164	<0.000394	70.7	30-130	0.8	30	
Dibenz(a,h)anthracene	0.172	0.00067	"	0.164	<0.000614	105	30-130	12	30	
Chrysene	0.129	0.00067	"	0.164	<0.000624	78.6	30-130	2.3	30	
Benzo(k)fluoranthene	0.0877	0.00067	"	0.164	<0.000437	53.4	30-130	24.3	30	
Fluorene	0.122	0.00067	"	0.164	<0.000286	74.3	30-130	5.9	30	
Benzo(b)fluoranthene	0.0743	0.00067	"	0.164	<0.000585	45.3	30-130	34.2	30	*
1-Methylnaphthalene	0.108	0.00201	"	0.164	<0.00109	65.8	30-130	4.5	30	
Benzo(a)anthracene	0.107	0.00067	"	0.164	<0.000493	65.2	30-130	7.2	30	
Acenaphthene	0.118	0.00067	"	0.164	<0.000304	71.9	30-130	1.6	30	
2-Methylnaphthalene	0.11	0.00201	"	0.164	<0.00194	67	30-130	1.8	30	
Benzo(a)pyrene	0.133	0.00067	"	0.164	<0.000468	81	30-130	3	30	

Surrogate: 2-Fluorobiphenyl

Surrogate: 4-Terphenyl-d14

Surrogate: Nitrobenzene-d5

MS (L 96722-MS-L691600)

Source: 96722

Prepared: 07/08/2023 Analyzed: 07/10/2023

Benzo(b)fluoranthene	0.105	0.00067	mg/Kg	0.164	<0.000585	64	30-130			
Fluorene	0.115	0.00067	"	0.164	<0.000286	70.1	30-130			
1-Methylnaphthalene	0.113	0.00201	"	0.164	<0.00109	68.9	30-130			
Benzo(a)anthracene	0.115	0.00067	"	0.164	<0.000493	70.1	30-130			
Pyrene	0.116	0.00067	"	0.164	<0.000643	70.7	30-130			
Indeno(1,2,3-cd)pyrene	0.147	0.00067	"	0.164	<0.000627	89.6	30-130			
Fluoranthene	0.117	0.00067	"	0.164	<0.000394	71.3	30-130			
Dibenz(a,h)anthracene	0.194	0.00067	"	0.164	<0.000614	118	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 L691600 - 3550B

MS (L 96722-MS-L691600)

Source: 96722

Prepared: 07/08/2023 Analyzed: 07/10/2023

Chrysene	0.126	0.00067	mg/Kg	0.164	<0.000624	76.8	30-130			
2-Methylnaphthalene	0.112	0.00201	"	0.164	<0.00194	68.2	30-130			
Benzo(k)fluoranthene	0.112	0.00067	"	0.164	<0.000437	68.2	30-130			
Acenaphthene	0.12	0.00067	"	0.164	<0.000304	73.1	30-130			
Anthracene	0.13	0.00067	"	0.164	<0.000334	79.2	30-130			
Benzo(a)pyrene	0.129	0.00067	"	0.164	<0.000468	78.6	30-130			
Surrogate: 4-Terphenyl-d14	56.4		"	0.328	201	56.4	33-122			
Surrogate: Nitrobenzene-d5	52.7		"	0.328	175	52.7	29-110			
Surrogate: 2-Fluorobiphenyl	57		"	0.328	185	57	33-115			

LCS (LCS-L691600)

Prepared: 07/08/2023 Analyzed: 07/10/2023

Benzo(k)fluoranthene	0.115	0.00067	mg/Kg	0.167		68.8	30-130			
Pyrene	0.135	0.00067	"	0.167		80.8	30-130			
Benzo(b)fluoranthene	0.114	0.00067	"	0.167		68.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0774	0.00067	"	0.167		46.3	30-130			
Fluorene	0.13	0.00067	"	0.167		77.8	30-130			
Fluoranthene	0.133	0.00067	"	0.167		79.6	30-130			
Dibenz(a,h)anthracene	0.109	0.00067	"	0.167		65.2	30-130			
Chrysene	0.126	0.00067	"	0.167		75.4	30-130			
1-Methylnaphthalene	0.113	0.00201	"	0.167		67.6	30-130			
2-Methylnaphthalene	0.11	0.00201	"	0.167		65.8	30-130			
Acenaphthene	0.117	0.00067	"	0.167		70	30-130			
Anthracene	0.123	0.00067	"	0.167		73.6	30-130			
Benzo(a)anthracene	0.116	0.00067	"	0.167		69.4	30-130			
Benzo(a)pyrene	0.134	0.00067	"	0.167		80.2	30-130			
Surrogate: Nitrobenzene-d5	63		"	0.333		63	29-110			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333		62.7	33-115			

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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 RG #26-8

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 L691600 - 3550B

LCS (LCS-L691600)

Prepared: 07/08/2023 Analyzed: 07/10/2023

Surrogate: 4-Terphenyl-d14 76.8 mg/Kg 0.333 76.8 33-122

LRB (LRB-L691600)

Prepared: 07/08/2023 Analyzed: 07/10/2023

Fluorene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	68.4		"	0.333		68.4	33-122			
Surrogate: 2-Fluorobiphenyl	66		"	0.333		66	33-115			
Surrogate: Nitrobenzene-d5	55.2		"	0.333		55.2	29-110			

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 L691488 - 3550B

MSD (L 96424-MSD-L691488)

Source: 96424

Prepared: 07/07/2023 Analyzed: 07/10/2023

Pyrene	0.118	0.00067	mg/Kg	0.164	<0.000643	71.9	30-130	8.1	30	
Benzo(a)pyrene	0.122	0.00067	"	0.164	<0.000468	74.3	30-130	4.1	30	
Fluorene	0.122	0.00067	"	0.164	0.00079	73.9	30-130	2.4	30	
Fluoranthene	0.119	0.00067	"	0.164	<0.000394	72.5	30-130	7.2	30	
Dibenz(a,h)anthracene	0.132	0.00067	"	0.164	<0.000614	80.4	30-130	0.7	30	
Chrysene	0.115	0.00067	"	0.164	<0.000624	70.1	30-130	0	30	
Indeno(1,2,3-cd)pyrene	0.101	0.00067	"	0.164	<0.000627	61.5	30-130	10.6	30	
Benzo(b)fluoranthene	0.0797	0.00067	"	0.164	<0.000585	48.5	30-130	16.1	30	
1-Methylnaphthalene	0.103	0.00201	"	0.164	<0.00109	62.8	30-130	0.9	30	
Benzo(a)anthracene	0.116	0.00067	"	0.164	<0.000493	70.7	30-130	5.3	30	
Anthracene	0.119	0.00067	"	0.164	<0.000334	72.5	30-130	6	30	
Acenaphthene	0.114	0.00067	"	0.164	<0.000304	69.5	30-130	1.7	30	
2-Methylnaphthalene	0.103	0.00201	"	0.164	<0.00194	62.8	30-130	0	30	
Benzo(k)fluoranthene	0.0755	0.00067	"	0.164	<0.000437	46	30-130	12.1	30	

Surrogate: Nitrobenzene-d5

47.4

"

0.329

162

47.4

29-110

Surrogate: 4-Terphenyl-d14

56.5

"

0.329

179

56.5

33-122

Surrogate: 2-Fluorobiphenyl

55.6

"

0.329

166

55.6

33-115

MS (L 96424-MS-L691488)

Source: 96424

Prepared: 07/07/2023 Analyzed: 07/10/2023

Dibenz(a,h)anthracene	0.131	0.00067	mg/Kg	0.164	<0.000614	79.8	30-130			
Pyrene	0.128	0.00067	"	0.164	<0.000643	78	30-130			
Indeno(1,2,3-cd)pyrene	0.0908	0.00067	"	0.164	<0.000627	55.3	30-130			
1-Methylnaphthalene	0.104	0.00201	"	0.164	<0.00109	63.4	30-130			
Fluoranthene	0.128	0.00067	"	0.164	<0.000394	78	30-130			
Chrysene	0.115	0.00067	"	0.164	<0.000624	70.1	30-130			
Benzo(k)fluoranthene	0.0853	0.00067	"	0.164	<0.000437	52	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.164	<0.00194	62.8	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 L691488 - 3550B

MS (L 96424-MS-L691488)

Source: 96424

Prepared: 07/07/2023 Analyzed: 07/10/2023

Benzo(a)pyrene	0.117	0.00067	mg/Kg	0.164	<0.000468	71.3	30-130			
Benzo(a)anthracene	0.11	0.00067	"	0.164	<0.000493	67	30-130			
Anthracene	0.112	0.00067	"	0.164	<0.000334	68.2	30-130			
Acenaphthene	0.112	0.00067	"	0.164	<0.000304	68.2	30-130			
Benzo(b)fluoranthene	0.0678	0.00067	"	0.164	<0.000585	41.3	30-130			
Fluorene	0.125	0.00067	"	0.164	0.00079	75.7	30-130			
Surrogate: Nitrobenzene-d5	47.2		"	0.328	162	47.2	29-110			
Surrogate: 4-Terphenyl-d14	62.5		"	0.328	179	62.5	33-122			
Surrogate: 2-Fluorobiphenyl	52.1		"	0.328	166	52.1	33-115			

LCS (LCS-L691488)

Prepared: 07/07/2023 Analyzed: 07/10/2023

Benzo(k)fluoranthene	0.0829	0.00067	mg/Kg	0.167		49.6	30-130			
Dibenz(a,h)anthracene	0.138	0.00067	"	0.167		82.6	30-130			
Fluoranthene	0.125	0.00067	"	0.167		74.8	30-130			
Fluorene	0.105	0.00067	"	0.167		62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0985	0.00067	"	0.167		58.9	30-130			
Pyrene	0.126	0.00067	"	0.167		75.4	30-130			
Benzo(b)fluoranthene	0.0689	0.00067	"	0.167		41.2	30-130			
1-Methylnaphthalene	0.0852	0.00201	"	0.167		51	30-130			
Benzo(a)anthracene	0.102	0.00067	"	0.167		61	30-130			
Anthracene	0.122	0.00067	"	0.167		73	30-130			
Acenaphthene	0.1	0.00067	"	0.167		59.8	30-130			
2-Methylnaphthalene	0.0899	0.00201	"	0.167		53.8	30-130			
Chrysene	0.112	0.00067	"	0.167		67	30-130			
Benzo(a)pyrene	0.116	0.00067	"	0.167		69.4	30-130			
Surrogate: Nitrobenzene-d5	46.8		"	0.333		46.8	29-110			
Surrogate: 4-Terphenyl-d14	66.6		"	0.333		66.6	33-122			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Shelton RG #26-8

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 L691488 - 3550B

LCS (LCS-L691488)

Prepared: 07/07/2023 Analyzed: 07/10/2023

Surrogate: 2-Fluorobiphenyl 46.8 mg/Kg 0.333 46.8 33-115

LRB (LRB-L691488)

Prepared: 07/07/2023 Analyzed: 07/10/2023

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	46.2		"	0.333	46.2		29-110			
Surrogate: 4-Terphenyl-d14	70.8		"	0.333	70.8		33-122			
Surrogate: 2-Fluorobiphenyl	51		"	0.333	51		33-115			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Shelton RG #26-8

Notes and Definitions

- U Sample is Non-Detect.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - J Estimated Value. Analyte below reported quantitation limit.
 - * 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.

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