



July 19, 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
WH-SS-04@5' SAR Rerun 1	Y306883-05	Soil	June 30, 2023 7:56	06/30/2023 14:50
WH-SS-04@5' SAR Rerun 2	Y306883-06	Soil	June 30, 2023 7:56	06/30/2023 14:50

A pH rerun was requested for WH-SS-02@5' and a pH and SAR rerun were requested for WH-SS-04@5' per Kendra's email on 07/12/2023. No errors were found in the original data, all three results are reported. JAB

Chain of Custody Modification Request

On 7/13/2023, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y306883 requesting that Table 915 Metals be added to WH-SS-02@5'.

Requested modifications to the chain of custody were made by Jordan Bynon on 7/13/2023.

Origins Laboratory, Inc.



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Martin C Eckert III
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1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9445



4500 883

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page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Sample Instructions
				HCl	HNO ₃	Other	Groundwater	Soil		
WH-SS-01-05	6/13/13	7:50	3	X						EC, Sulf, pH, b ₅
WH-SS-02-05		7:52								Schedule paste prep
WH-SS-03-05		7:54								
WH-SS-04-05		7:56								4 MDS needed

4511 to 6m Temp Received

Date Results Needed 6/14/13

Reinquisitioned By: CE Date: 6/13/13 Time: 14:55
 Received By: WJ Date: 6/13/13 Time: 14:50
 Turnaround Time: 48 Hr 24 Hr 72 Hr

Client: Eagle Environmental Consulting
 Address: 5000 14th Ave
 Telephone Number: 303.433.1322
 Email Address: martin@eagleenv.com
 Project Manager: Martin Eckert III
 Project Name: Shelton RG #26-8
 Project Number: [none]
 Samples Collected By: CE

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

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):				

⁽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 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	"	"	"	"	"	"
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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	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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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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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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Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

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)

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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 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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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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Table 915 metals by EPA 6020B

Arsenic	2.04		0.0861	mg/kg	10	B3G1323	07/13/2023	07/14/2023	
Barium	58.1		8.61	"	"	"	"	"	"

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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)

Table 915 metals by EPA 6020B

Cadmium	0.237		0.0861	mg/kg	10	B3G1323	07/13/2023	07/14/2023	
Copper	21.8		8.61	"	"	"	"	"	
Lead	52.3		8.61	"	"	"	"	"	
Nickel	ND		8.61	"	"	"	"	"	
Selenium	0.170		0.0861	"	"	"	"	"	
Silver	ND		0.0861	"	"	"	"	"	
Zinc	ND		86.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.518	mg/Kg	1	L693395	06/30/2023	07/18/2023	
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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.
Y306883-02RE1 (Soil)

pH in Soil by 9045D

pH	8.15			pH Units	1	B3G1215	07/05/2023	07/13/2023	
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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 - 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.
Y306883-02RE2 (Soil)

pH in Soil by 9045D

pH	8.18			pH Units	1	B3G1215	07/05/2023	07/13/2023	
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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 - 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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 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

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

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.

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

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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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

Origins Laboratory, Inc.
Y306883-04 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	0.649		0.0984	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	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

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.
Y306883-04RE1 (Soil)

pH in Soil by 9045D

pH	8.30			pH Units	1	B3G1316	07/05/2023	07/14/2023	
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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

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.
Y306883-04RE2 (Soil)

pH in Soil by 9045D

pH	8.30			pH Units	1	B3G1316	07/05/2023	07/14/2023	
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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 - Shelton RG #26-8

WH-SS-04@5' SAR Rerun 1
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.
Y306883-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.916	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.23	0.823	"	"	"	"	"
Sodium	7.91	0.435	"	"	"	"	"

SAR by 20B Saturated Paste

SAR	7.65	SAR	1	B3G1310	"	"
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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

WH-SS-04@5' SAR Rerun 2
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.
Y306883-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.936	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.27	0.823	"	"	"	"	"
Sodium	7.96	0.435	"	"	"	"	"

SAR by 20B Saturated Paste

SAR	7.58		SAR	1	B3G1310	"	"
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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

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

Blank (B3G0501-BLK1)

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

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)

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

Blank (B3G0718-BLK1)

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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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 B3G1323 - EPA 3050B

Blank (B3G1323-BLK1)

Prepared: 07/13/2023 Analyzed: 07/14/2023

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 (B3G1323-BS1)

Prepared: 07/13/2023 Analyzed: 07/14/2023

Arsenic	0.0477	0.000100	mg/kg	0.0500		95.3	80-120			
Barium	5.08	0.0100	"	5.00		102	80-120			
Cadmium	0.0525	0.000100	"	0.0500		105	80-120			
Copper	0.471	0.0100	"	0.500		94.2	80-120			
Lead	0.0496	0.0100	"	0.0500		99.3	80-120			
Nickel	0.0470	0.0100	"	0.0500		93.9	80-120			
Selenium	0.0476	0.000100	"	0.0500		95.2	80-120			
Silver	0.0481	0.000100	"	0.0500		96.3	80-120			
Zinc	0.460	0.100	"	0.500		92.0	80-120			

Matrix Spike (B3G1323-MS1)

Source: Y307248-01

Prepared: 07/13/2023 Analyzed: 07/14/2023

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

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 B3G1323 - EPA 3050B

Matrix Spike (B3G1323-MS1)

Source: Y307248-01

Prepared: 07/13/2023 Analyzed: 07/14/2023

Arsenic	7.95	0.0848	mg/kg	4.24	4.46	82.3	75-125			
Barium	524	8.48	"	424	109	97.9	75-125			
Cadmium	4.57	0.0848	"	4.24	0.133	105	75-125			
Copper	52.2	8.48	"	42.4	13.7	90.7	75-125			
Lead	12.0	8.48	"	4.24	8.07	92.9	75-125			
Nickel	13.3	8.48	"	4.24	9.21	95.8	75-125			
Selenium	3.86	0.0848	"	4.24	0.177	86.9	75-125			
Silver	4.09	0.0848	"	4.24	0.0277	95.7	75-125			
Zinc	70.9	84.8	"	42.4	32.9	89.5	75-125			

Matrix Spike Dup (B3G1323-MSD1)

Source: Y307248-01

Prepared: 07/13/2023 Analyzed: 07/14/2023

Arsenic	8.05	0.0891	mg/kg	4.46	4.46	80.5	75-125	1.24	20	
Barium	533	8.91	"	446	109	95.1	75-125	1.65	20	
Cadmium	4.72	0.0891	"	4.46	0.133	103	75-125	3.29	20	
Copper	53.2	8.91	"	44.6	13.7	88.5	75-125	1.87	20	
Lead	12.2	8.91	"	4.46	8.07	92.2	75-125	1.40	20	
Nickel	13.1	8.91	"	4.46	9.21	86.6	75-125	1.55	20	
Selenium	4.21	0.0891	"	4.46	0.177	90.5	75-125	8.68	20	
Silver	4.24	0.0891	"	4.46	0.0277	94.6	75-125	3.72	20	
Zinc	71.3	89.1	"	44.6	32.9	86.1	75-125	0.587	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 - Shelton RG #26-8

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

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

Duplicate (B3G0505-DUP1)

Source: Y306882-04

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

SAR	0.00		SAR	0.383				200	200	
Calcium PPM	24.4	10.0	mg/L	23.1				5.48	50	
Magnesium PPM	2.51	10.0	"	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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Batch B3G1310 - Saturated Paste Metals

Blank (B3G1310-BLK1)

Prepared: 07/13/2023 Analyzed: 07/14/2023

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

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

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 B3G1310 - Saturated Paste Metals

Duplicate (B3G1310-DUP1)

Source: Y307231-01

Prepared: 07/13/2023 Analyzed: 07/14/2023

Calcium PPM	4.63	10.0	mg/L		6.02			26.1	50	
SAR	0.00		SAR		0.0806			200	200	
Magnesium PPM	1.75	10.0	mg/L		1.96			11.3	50	
Sodium PPM	1.39	10.0	"		0.890			43.9	50	

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

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

pH 8.26 pH Units 8.30 0.483 25

Specific Conductance (EC) 0.226 0.00500 mmhos/cm 0.211 6.92 25

Batch B3G1215 - Saturated Paste pH/EC

Duplicate (B3G1215-DUP1)

Source: Y306807-03RE1

Prepared: 07/12/2023 Analyzed: 07/13/2023

pH 8.02 pH Units 7.46 7.24 25

Batch B3G1316 - Saturated Paste pH/EC

Duplicate (B3G1316-DUP1)

Source: Y307231-01

Prepared: 07/13/2023 Analyzed: 07/14/2023

pH 7.62 pH Units 7.54 1.06 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

**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
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Batch L693395 -

DUP (L 99815-DUP)

Source: 99815

Prepared: Analyzed: 07/18/2023

Chromium, Hexavalent	ND	0.503	mg/Kg		<0.503	-	0	20	
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MS (L 99815-MS)

Source: 99815

Prepared: Analyzed: 07/18/2023

Chromium, Hexavalent	33.2	2.54	mg/Kg	40.6	<1.24	82	75-125		
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LCS (LCS)

Prepared: Analyzed: 07/18/2023

Chromium, Hexavalent	6.91	0.5	mg/Kg	8		86	75-125		
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LRB (LRB)

Prepared: Analyzed: 07/18/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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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

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

Benzo(b)fluoranthene	0.0743	0.00067	mg/Kg	0.164	<0.000585	45.3	30-130	34.2	30	*
Dibenz(a,h)anthracene	0.172	0.00067	"	0.164	<0.000614	105	30-130	12	30	
Pyrene	0.116	0.00067	"	0.164	<0.000643	70.7	30-130	0	30	
Indeno(1,2,3-cd)pyrene	0.121	0.00067	"	0.164	<0.000627	73.7	30-130	19.4	30	
Fluoranthene	0.116	0.00067	"	0.164	<0.000394	70.7	30-130	0.8	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	
1-Methylnaphthalene	0.108	0.00201	"	0.164	<0.00109	65.8	30-130	4.5	30	
2-Methylnaphthalene	0.11	0.00201	"	0.164	<0.00194	67	30-130	1.8	30	
Fluorene	0.122	0.00067	"	0.164	<0.000286	74.3	30-130	5.9	30	
Benzo(a)pyrene	0.133	0.00067	"	0.164	<0.000468	81	30-130	3	30	
Acenaphthene	0.118	0.00067	"	0.164	<0.000304	71.9	30-130	1.6	30	
Anthracene	0.118	0.00067	"	0.164	<0.000334	71.9	30-130	9.6	30	
Benzo(a)anthracene	0.107	0.00067	"	0.164	<0.000493	65.2	30-130	7.2	30	
Surrogate: Nitrobenzene-d5	51.9		"	0.329	175	51.9	29-110			
Surrogate: 2-Fluorobiphenyl	54.7		"	0.329	185	54.7	33-115			
Surrogate: 4-Terphenyl-d14	56.2		"	0.329	201	56.2	33-122			

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			
Indeno(1,2,3-cd)pyrene	0.147	0.00067	"	0.164	<0.000627	89.6	30-130			
Fluorene	0.115	0.00067	"	0.164	<0.000286	70.1	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			
Chrysene	0.126	0.00067	"	0.164	<0.000624	76.8	30-130			
Benzo(k)fluoranthene	0.112	0.00067	"	0.164	<0.000437	68.2	30-130			
1-Methylnaphthalene	0.113	0.00201	"	0.164	<0.00109	68.9	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

Benzo(a)anthracene	0.115	0.00067	mg/Kg	0.164	<0.000493	70.1	30-130			
Acenaphthene	0.12	0.00067	"	0.164	<0.000304	73.1	30-130			
Pyrene	0.116	0.00067	"	0.164	<0.000643	70.7	30-130			
2-Methylnaphthalene	0.112	0.00201	"	0.164	<0.00194	68.2	30-130			
Benzo(a)pyrene	0.129	0.00067	"	0.164	<0.000468	78.6	30-130			
Anthracene	0.13	0.00067	"	0.164	<0.000334	79.2	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			
Chrysene	0.126	0.00067	"	0.167		75.4	30-130			
Dibenz(a,h)anthracene	0.109	0.00067	"	0.167		65.2	30-130			
Fluoranthene	0.133	0.00067	"	0.167		79.6	30-130			
Fluorene	0.13	0.00067	"	0.167		77.8	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			
Benzo(a)anthracene	0.116	0.00067	"	0.167		69.4	30-130			
Anthracene	0.123	0.00067	"	0.167		73.6	30-130			
Acenaphthene	0.117	0.00067	"	0.167		70	30-130			
2-Methylnaphthalene	0.11	0.00201	"	0.167		65.8	30-130			
1-Methylnaphthalene	0.113	0.00201	"	0.167		67.6	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: 4-Terphenyl-d14	76.8		"	0.333		76.8	33-122			

Origins Laboratory, Inc.



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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

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: 2-Fluorobiphenyl 62.7 mg/Kg 0.333 62.7 33-115

LRB (LRB-L691600)

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

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

Origins Laboratory, Inc.



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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

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

Surrogate: Nitrobenzene-d5

47.4

"

0.329

162

47.4

29-110

Surrogate: 2-Fluorobiphenyl

55.6

"

0.329

166

55.6

33-115

Surrogate: 4-Terphenyl-d14

56.5

"

0.329

179

56.5

33-122

MS (L 96424-MS-L691488)

Source: 96424

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

Chrysene	0.115	0.00067	mg/Kg	0.164	<0.000624	70.1	30-130			
Acenaphthene	0.112	0.00067	"	0.164	<0.000304	68.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0908	0.00067	"	0.164	<0.000627	55.3	30-130			
Fluorene	0.125	0.00067	"	0.164	0.00079	75.7	30-130			
Fluoranthene	0.128	0.00067	"	0.164	<0.000394	78	30-130			
Dibenz(a,h)anthracene	0.131	0.00067	"	0.164	<0.000614	79.8	30-130			
Pyrene	0.128	0.00067	"	0.164	<0.000643	78	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.164	<0.00194	62.8	30-130			

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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 L691488 - 3550B

MS (L 96424-MS-L691488)

Source: 96424

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

1-Methylnaphthalene	0.104	0.00201	mg/Kg	0.164	<0.00109	63.4	30-130			
Benzo(a)anthracene	0.11	0.00067	"	0.164	<0.000493	67	30-130			
Benzo(k)fluoranthene	0.0853	0.00067	"	0.164	<0.000437	52	30-130			
Anthracene	0.112	0.00067	"	0.164	<0.000334	68.2	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.164	<0.000468	71.3	30-130			
Benzo(b)fluoranthene	0.0678	0.00067	"	0.164	<0.000585	41.3	30-130			
Surrogate: Nitrobenzene-d5	47.2		"	0.328	162	47.2	29-110			
Surrogate: 2-Fluorobiphenyl	52.1		"	0.328	166	52.1	33-115			
Surrogate: 4-Terphenyl-d14	62.5		"	0.328	179	62.5	33-122			

LCS (LCS-L691488)

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

1-Methylnaphthalene	0.0852	0.00201	mg/Kg	0.167		51	30-130			
Chrysene	0.112	0.00067	"	0.167		67	30-130			
Indeno(1,2,3-cd)pyrene	0.0985	0.00067	"	0.167		58.9	30-130			
Fluorene	0.105	0.00067	"	0.167		62.8	30-130			
Fluoranthene	0.125	0.00067	"	0.167		74.8	30-130			
Dibenz(a,h)anthracene	0.138	0.00067	"	0.167		82.6	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			
Benzo(a)pyrene	0.116	0.00067	"	0.167		69.4	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			
Benzo(k)fluoranthene	0.0829	0.00067	"	0.167		49.6	30-130			
Surrogate: Nitrobenzene-d5	46.8		"	0.333		46.8	29-110			
Surrogate: 2-Fluorobiphenyl	46.8		"	0.333		46.8	33-115			

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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: 4-Terphenyl-d14 66.6 mg/Kg 0.333 66.6 33-122

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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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

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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