



March 30, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - State #16-13

Project Number - [none]

Attached are your analytical results for Noble - State #16-13 received by Origins Laboratory, Inc. March 10, 2023. This project is associated with Origins project number Y303298-01.

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.

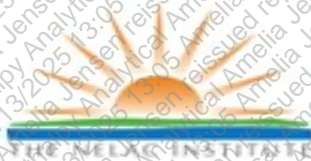
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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 - State #16-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y303298-01	Soil	March 10, 2023 8:38	03/10/2023 16:27

Chain of Custody Modification Request

On 3/23/2023, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y303298 requesting that Table 915 Metals be added to the analysis.

Requested modifications to the chain of custody were made by Jordan Bynon on 3/23/2023.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - State #16-13

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

Sample Receipt Checklist

Origins Work Order: 7303298 Client: Eagle
 Client Project ID: STATE #16-13

Checklist Completed by: DE Shipped Via: FD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 03/16/2023 Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 3 °C / 1 °C / 1 °C (Describe) _____
 Thermometer ID: TD04

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	✓			
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	✓			
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	✓			
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	✓			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – Is there headspace (> 1/4 inch bubble) present? If yes, contact client and note in narrative.	✓			
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	✓			
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 taken in the additional comments, above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 3/15/23

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini For Noelle Doyle Mathis, President

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

WH-FS-01@6'
3/10/2023 8:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303298-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3C1404	03/14/2023	03/15/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	430		25.0	mg/kg	1	B3C1301	03/13/2023	03/15/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.7 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1326	03/13/2023	03/15/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	14.3		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	128 %		70-130	"	"	"	"	"	
Surrogate: Toluene-d8	91.6 %		70-130	"	"	"	"	"	

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WH-FS-01@6'
3/10/2023 8:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303298-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	87.2 %		70-130			B3C13 26	03/13/2023	03/15/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.21		0.499	meq/L	10	[CALC]	03/15/2023	03/17/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.36		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.031	0.00549	0.0101	mg/Kg	5	L670250	03/16/2023	03/17/2023	
2-Methylnaphthalene	0.0169	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0162	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.00545	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.00273	0.00197	0.00335	"	"	"	"	"	J
Fluorene	0.054	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	

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Waypoint Analytical, LLC.
Y303298-01 (Soil)

PAH by 8270D SIM

Naphthalene	0.0318	0.0073	0.0101	mg/Kg	5	L670250	03/16/2023	03/17/2023	
Pyrene	0.00795	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	73.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.52			pH Units	1	B3C1516	03/15/2023	03/16/2023	
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SAR by 20B Saturated Paste

SAR	5.35			SAR	1	B3C1506	03/15/2023	03/17/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.921		0.00500	mmhos/cm	1	B3C1516	03/15/2023	03/16/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.96		0.0883	mg/kg	10	B3C2319	03/23/2023	03/23/2023	
Barium	36.6		8.83	"	"	"	"	"	
Cadmium	0.0963		0.0883	"	"	"	"	"	

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3/10/2023 8:38:00AM

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Origins Laboratory, Inc.
Y303298-01 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.83	mg/kg	10	B3C2319	03/23/2023	03/23/2023	U
Lead	ND		8.83	"	"	"	"	"	U
Nickel	ND		8.83	"	"	"	"	"	U
Selenium	0.151		0.0883	"	"	"	"	"	U
Silver	ND		0.0883	"	"	"	"	"	U
Zinc	ND		88.3	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	1	L672587	03/10/2023	03/28/2023	
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1301 - EPA 3580

Blank (B3C1301-BLK1)

Prepared: 03/13/2023 Analyzed: 03/15/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.6	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C1301 - EPA 3580

LCS (B3C1301-BS1)

Prepared: 03/13/2023 Analyzed: 03/15/2023

Diesel (C10-C28)	906	50.0	mg/kg	1000		90.6	70-130			
Residual Range Organics (C28-C40)	931	200	"	1000		93.1	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.3	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III
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 Project: Noble - State #16-13

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 B3C1301 - EPA 3580

Matrix Spike (B3C1301-MS1)

Source: Y303278-01

Prepared: 03/13/2023 Analyzed: 03/15/2023

Diesel (C10-C28)	860	50.0	mg/kg	1000	ND	86.0	70-130			
Residual Range Organics (C28-C40)	876	200	"	1000	ND	87.6	70-130			
Surrogate: o-Terphenyl	40		"	49.8		81.0	50-150			

Origins Laboratory, Inc.

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 Project: Noble - State #16-13

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 B3C1301 - EPA 3580

Matrix Spike Dup (B3C1301-MSD1)

Source: Y303278-01

Prepared: 03/13/2023 Analyzed: 03/15/2023

Diesel (C10-C28)	843	50.0	mg/kg	1000	ND	84.3	70-130	2.04	35	
Residual Range Organics (C28-C40)	856	200	"	1000	ND	85.6	70-130	2.25	35	
Surrogate: o-Terphenyl	40		"	49.8		81.3	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C1326 - EPA 5030 (soil)

Prepared: 03/13/2023 Analyzed: 03/14/2023

Blank (B3C1326-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	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1326 - EPA 5030 (soil)

LCS (B3C1326-BS1)

Prepared: 03/13/2023 Analyzed: 03/14/2023

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.0932	0.00200	"	0.100		93.2	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.0933	0.00200	"	0.100		93.3	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.211	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C1326 - EPA 5030 (soil)

Matrix Spike (B3C1326-MS1)

Source: Y303263-01

Prepared: 03/13/2023 Analyzed: 03/14/2023

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Benzene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0797	0.00380	"	0.100	ND	79.7	70-130			
Toluene	0.0944	0.00200	"	0.100	ND	94.4	70-130			
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130			
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C1326 - EPA 5030 (soil)

Matrix Spike Dup (B3C1326-MSD1)

Source: Y303263-01

Prepared: 03/13/2023 Analyzed: 03/14/2023

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	2.51	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	2.37	20	
Benzene	0.0980	0.00200	"	0.100	ND	98.0	70-130	4.74	20	
Ethylbenzene	0.0999	0.00200	"	0.100	ND	99.9	70-130	0.857	20	
Naphthalene	0.0993	0.00380	"	0.100	ND	99.3	70-130	21.9	20	QR-02
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	5.82	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	1.60	20	
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130	0.118	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

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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 B3C2319 - EPA 3050B

Blank (B3C2319-BLK1)

Prepared: 03/23/2023 Analyzed: 03/23/2023

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B3C2319-BS1)

Prepared: 03/23/2023 Analyzed: 03/23/2023

Arsenic	0.0549	0.000100	mg/kg	0.0500		110	80-120			
Barium	5.40	0.0100	"	5.00		108	80-120			
Cadmium	0.0532	0.000100	"	0.0500		106	80-120			
Copper	0.554	0.0100	"	0.500		111	80-120			
Lead	0.0530	0.0100	"	0.0500		106	80-120			
Nickel	0.0518	0.0100	"	0.0500		104	80-120			
Selenium	0.0501	0.000100	"	0.0500		100	80-120			
Silver	0.0491	0.000100	"	0.0500		98.2	80-120			
Zinc	0.534	0.100	"	0.500		107	80-120			

Matrix Spike (B3C2319-MS1)

Source: Y303298-01

Prepared: 03/23/2023 Analyzed: 03/23/2023

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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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 - State #16-13

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 B3C2319 - EPA 3050B

Matrix Spike (B3C2319-MS1)

Source: Y303298-01

Prepared: 03/23/2023 Analyzed: 03/23/2023

Arsenic	5.91	0.0898	mg/kg	4.49	1.96	88.0	75-125			
Barium	488	8.98	"	449	36.6	101	75-125			
Cadmium	4.62	0.0898	"	4.49	0.0963	101	75-125			
Copper	51.0	8.98	"	44.9	4.67	103	75-125			
Lead	10.0	8.98	"	4.49	8.62	30.9	75-125			QM-07
Nickel	7.01	8.98	"	4.49	3.93	68.6	75-125			QM-07, U
Selenium	4.31	0.0898	"	4.49	0.151	92.5	75-125			
Silver	4.28	0.0898	"	4.49	0.0265	94.7	75-125			
Zinc	57.5	89.8	"	44.9	18.6	86.8	75-125			U

Matrix Spike Dup (B3C2319-MSD1)

Source: Y303298-01

Prepared: 03/23/2023 Analyzed: 03/23/2023

Arsenic	6.03	0.0934	mg/kg	4.67	1.96	87.1	75-125	1.95	20	
Barium	499	9.34	"	467	36.6	99.1	75-125	2.23	20	
Cadmium	4.77	0.0934	"	4.67	0.0963	100	75-125	3.34	20	
Copper	52.3	9.34	"	46.7	4.67	102	75-125	2.54	20	
Lead	10.7	9.34	"	4.67	8.62	44.8	75-125	6.80	20	QM-07
Nickel	7.37	9.34	"	4.67	3.93	73.7	75-125	5.00	20	QM-07, U
Selenium	4.42	0.0934	"	4.67	0.151	91.4	75-125	2.58	20	
Silver	4.39	0.0934	"	4.67	0.0265	93.4	75-125	2.55	20	
Zinc	62.2	93.4	"	46.7	18.6	93.5	75-125	7.85	20	U

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1404 - DTPA Sorbitol Preparation

Blank (B3C1404-BLK1)

Prepared: 03/14/2023 Analyzed: 03/15/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3C1404-DUP1)

Source: Y303259-05

Prepared: 03/14/2023 Analyzed: 03/15/2023

Boron	5.84	0.0981	mg/L		7.07			19.1	50	
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Batch B3C1506 - Saturated Paste Metals

Blank (B3C1506-BLK1)

Prepared: 03/15/2023 Analyzed: 03/17/2023

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

Duplicate (B3C1506-DUP1)

Source: Y303267-04

Prepared: 03/15/2023 Analyzed: 03/17/2023

SAR	0.00		SAR		0.957			200	200	U
Calcium PPM	50.7	10.0	mg/L		57.0			11.8	50	
Magnesium PPM	13.8	10.0	"		15.2			9.62	50	
Sodium PPM	29.0	10.0	"		31.5			8.31	50	

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1516 - Saturated Paste pH/EC

Blank (B3C1516-BLK1)

Prepared: 03/15/2023 Analyzed: 03/16/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3C1516-DUP1)

Source: Y303267-04

Prepared: 03/15/2023 Analyzed: 03/16/2023

pH	7.98		pH Units		8.00		0.250		25	
Specific Conductance (EC)	0.708	0.00500	mmhos/cm		0.717		1.25		25	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 L672587 -

DUP (L 86725-DUP)

Source: 86725

Prepared: Analyzed: 03/28/2023

Chromium, Hexavalent	ND	2.56	mg/Kg		<2.56	-	0	20	
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MS (L 86725-MS)

Source: 86725

Prepared: Analyzed: 03/28/2023

Chromium, Hexavalent	29.7	2.5	mg/Kg	38.5	<1.22	77	75-125		
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LCS (LCS)

Prepared: Analyzed: 03/28/2023

Chromium, Hexavalent	6.78	0.5	mg/Kg	8		85	75-125		
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LRB (LRB)

Prepared: Analyzed: 03/28/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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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 - State #16-13

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 L670250 - 3550B

MSD (L 98530-MSD-L670250)

Source: 98530

Prepared: 03/16/2023 Analyzed: 03/17/2023

Naphthalene	0.097	0.00201	mg/Kg	0.165	<0.00145	58.7	30-130	2.5	30	
Pyrene	0.112	0.00067	"	0.165	<0.000643	67.8	30-130	2.7	30	
Benzo(a)anthracene	0.112	0.00067	"	0.165	<0.000493	67.8	30-130	3.5	30	
1-Methylnaphthalene	0.103	0.00201	"	0.165	<0.00109	62.4	30-130	0.9	30	
2-Methylnaphthalene	0.103	0.00201	"	0.165	<0.00194	62.4	30-130	1.9	30	
Indeno(1,2,3-cd)pyrene	0.111	0.00067	"	0.165	<0.000627	67.2	30-130	5.5	30	
Anthracene	0.121	0.00067	"	0.165	<0.000334	73.3	30-130	2.5	30	
Benzo(a)pyrene	0.123	0.00067	"	0.165	<0.000468	74.5	30-130	2.4	30	
Benzo(b)fluoranthene	0.0803	0.00067	"	0.165	<0.000585	48.6	30-130	11.1	30	
Benzo(k)fluoranthene	0.0985	0.00067	"	0.165	<0.000437	59.6	30-130	9.2	30	
Chrysene	0.119	0.00067	"	0.165	<0.000624	72.1	30-130	7.8	30	
Dibenz(a,h)anthracene	0.153	0.00067	"	0.165	<0.000614	92.7	30-130	6.7	30	
Fluoranthene	0.115	0.00067	"	0.165	<0.000394	69.6	30-130	2.6	30	
Fluorene	0.116	0.00067	"	0.165	<0.000286	70.3	30-130	0.8	30	
Acenaphthene	0.107	0.00067	"	0.165	<0.000304	64.8	30-130	0	30	
Surrogate: Nitrobenzene-d5	51.8		"	0.33	172	51.8	29-110			
Surrogate: 2-Fluorobiphenyl	54.5		"	0.33	176	54.5	33-115			
Surrogate: 4-Terphenyl-d14	60.9		"	0.33	204	60.9	33-122			

MS (L 98530-MS-L670250)

Source: 98530

Prepared: 03/16/2023 Analyzed: 03/17/2023

Indeno(1,2,3-cd)pyrene	0.105	0.00067	mg/Kg	0.166	<0.000627	63.2	30-130			
Benzo(a)pyrene	0.12	0.00067	"	0.166	<0.000468	72.2	30-130			
Pyrene	0.109	0.00067	"	0.166	<0.000643	65.6	30-130			
Naphthalene	0.0946	0.00201	"	0.166	<0.00145	56.9	30-130			
Fluorene	0.115	0.00067	"	0.166	<0.000286	69.2	30-130			
Benzo(k)fluoranthene	0.108	0.00067	"	0.166	<0.000437	65	30-130			
1-Methylnaphthalene	0.102	0.00201	"	0.166	<0.00109	61.4	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 - State #16-13

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 L670250 - 3550B

MS (L 98530-MS-L670250)

Source: 98530

Prepared: 03/16/2023 Analyzed: 03/17/2023

2-Methylnaphthalene	0.101	0.00201	mg/Kg	0.166	<0.00194	60.8	30-130			
Acenaphthene	0.107	0.00067	"	0.166	<0.000304	64.4	30-130			
Anthracene	0.118	0.00067	"	0.166	<0.000334	71	30-130			
Benzo(a)anthracene	0.116	0.00067	"	0.166	<0.000493	69.8	30-130			
Benzo(b)fluoranthene	0.0898	0.00067	"	0.166	<0.000585	54	30-130			
Chrysene	0.11	0.00067	"	0.166	<0.000624	66.2	30-130			
Dibenz(a,h)anthracene	0.143	0.00067	"	0.166	<0.000614	86.1	30-130			
Fluoranthene	0.112	0.00067	"	0.166	<0.000394	67.4	30-130			
Surrogate: Nitrobenzene-d5	51		"	0.331	172	51	29-110			
Surrogate: 4-Terphenyl-d14	57		"	0.331	204	57	33-122			
Surrogate: 2-Fluorobiphenyl	52.8		"	0.331	176	52.8	33-115			

LCS (LCS-L670250)

Prepared: 03/16/2023 Analyzed: 03/17/2023

Fluoranthene	0.135	0.00067	mg/Kg	0.167		80.8	30-130			
Fluorene	0.14	0.00067	"	0.167		83.8	30-130			
Pyrene	0.132	0.00067	"	0.167		79	30-130			
Naphthalene	0.122	0.00201	"	0.167		73	30-130			
Benzo(a)anthracene	0.135	0.00067	"	0.167		80.8	30-130			
1-Methylnaphthalene	0.127	0.00201	"	0.167		76	30-130			
2-Methylnaphthalene	0.126	0.00201	"	0.167		75.4	30-130			
Indeno(1,2,3-cd)pyrene	0.13	0.00067	"	0.167		77.8	30-130			
Anthracene	0.146	0.00067	"	0.167		87.4	30-130			
Benzo(a)pyrene	0.147	0.00067	"	0.167		88	30-130			
Benzo(b)fluoranthene	0.095	0.00067	"	0.167		56.8	30-130			
Benzo(k)fluoranthene	0.117	0.00067	"	0.167		70	30-130			
Chrysene	0.131	0.00067	"	0.167		78.4	30-130			
Dibenz(a,h)anthracene	0.166	0.00067	"	0.167		99.4	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 - State #16-13

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 L670250 - 3550B

LCS (LCS-L670250)

Prepared: 03/16/2023 Analyzed: 03/17/2023

Acenaphthene	0.129	0.00067	mg/Kg	0.167		77.2	30-130			
Surrogate: Nitrobenzene-d5	64.5		"	0.333		64.5	29-110			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			

LRB (LRB-L670250)

Prepared: 03/16/2023 Analyzed: 03/17/2023

1-Methylnaphthalene	ND	0.00201	mg/Kg							
Pyrene	ND	0.00067	"							
Indeno(1,2,3-cd)pyrene	ND	0.00067	"							
Naphthalene	ND	0.00201	"							
Fluorene	ND	0.00067	"							
Fluoranthene	ND	0.00067	"							
Dibenz(a,h)anthracene	ND	0.00067	"							
Chrysene	ND	0.00067	"							
Benzo(k)fluoranthene	ND	0.00067	"							
Benzo(b)fluoranthene	ND	0.00067	"							
Benzo(a)pyrene	ND	0.00067	"							
Benzo(a)anthracene	ND	0.00067	"							
Anthracene	ND	0.00067	"							
Acenaphthene	ND	0.00067	"							
2-Methylnaphthalene	ND	0.00201	"							
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			
Surrogate: 4-Terphenyl-d14	73.2		"	0.333		73.2	33-122			
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 - State #16-13

Notes and Definitions

- U Sample is Non-Detect.
 - QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - J Estimated Value. Analyte below reported quantitation limit.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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