



Eagle Environmental Consulting, LLC  
Alfred Garraffa  
8000 W 44th Ave

October 14, 2024

Wheat Ridge CO 80033

Project Name - Noble - State #36-614

Project Number - [none]

Attached are your analytical results for Noble - State #36-614 received by Origins Laboratory September 10, 2024. This project is associated with Origins project number E409241-01.

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  
303.433.1322  
projectmanager@originslab.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

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-SS-06@7'	E409241-01	Soil	September 10, 2024 12:50	09/10/2024 15:50
EX-SS-07@7'	E409241-02	Soil	September 10, 2024 12:50	09/10/2024 15:50
EX-SS-08@7'	E409241-03	Soil	September 10, 2024 13:20	09/10/2024 15:50
EX-SS-09@7'	E409241-04	Soil	September 10, 2024 14:20	09/10/2024 15:50
EX-FS-02@8'	E409241-05	Soil	September 10, 2024 14:20	09/10/2024 15:50

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## ORIGINS

LABORATORY LLC

ORIGINS WORK ORDER #

**EW09241**

Page 1 of 1

Client: Eagle Environmental Consulting

Project Manager: Alfred Garraffa

Key:

Address: 8000 W 44th Ave

Project Name: State #36-614

W=Water

Telephone Number: 303-933-0479

Project Number: \_\_\_\_\_

GW=Groundwater

Wheat Ridge CO 80073

Collected By: EG

SW=Surface Water

Email Address: agarraffa@eagle-environment.com

Invoice/Billing Info: Noble / B.I.L To Dan

WW=Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | U=Umpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
						PH	Temp	
1	EX-SS-08e7	9/10/24	1250	3	UMP	X	X	MLs Needed
2	EX-SS-07e7		1255			X	X	
3	EX-SS-08e7		1325			X	X	
4	EX-SS-08e7		1410			X	X	
5	EX-FS-02e8		1425			X	X	
6								
7								
8								
9								
10								


Relinquished By: [Signature] Date: 9/10/24 Time: 1550  
 Received By: [Signature] Date: 9/10/24 Time: 1550

Temp Received - 2.5 Received On Ice?  Yes  No

Turnaround Time  
 SAME DAY  
 24 Hr  
 48 Hr  
 72 Hr

Standard   Standard

For Lab Sample Receiving Only:

Origins Laboratory  


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 Project Number: [none]  
 Project: Noble - State #36-614

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: E409241

Client: Eagle

Client Project ID: State 36-614

Checklist Completed by: [Signature]

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9/10/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 12.5 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH ~2 for samples preserved with HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 9/10/12

Origins Laboratory

[Signature]

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8000 W 44th Ave  
Wheat Ridge CO 80033

Alfred Garraffa  
Project Number: [none]  
Project: Noble - State #36-614

**EX-SS-06@7'**

**9/10/2024 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E409241-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411028	09/10/2024	09/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	77.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411032	09/10/2024	09/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			"	"	"	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %		70-130			"	"	"	

Origins Laboratory



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**EX-SS-06@7'**

**9/10/2024 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409241-01 (Soil)**

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411027	09/10/2024	09/10/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

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**EX-SS-06@7'**

**9/10/2024 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E409241-01 (Soil)**

**pH in Soil by 9045D**

pH	8.40			pH Units	1	B411115	09/11/2024	09/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.67		0.269	mg/kg	10	B411036	09/10/2024	09/11/2024	
Barium	103		9.26	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.153	0.381	mg/kg dry	1	2682470	10/08/2024	10/08/2024	U
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Origins Laboratory

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Project: Noble - State #36-614

**EX-SS-07@7'**

**9/10/2024 12:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E409241-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411028	09/10/2024	09/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	79.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411032	09/10/2024	09/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	122 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %		70-130			"	"	"	

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**EX-SS-07@7'**

**9/10/2024 12:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E409241-02 (Soil)**

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411027	09/10/2024	09/10/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	88.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

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**EX-SS-07@7'**

**9/10/2024 12:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E409241-02 (Soil)**

**pH in Soil by 9045D**

pH	8.25			pH Units	1	B411115	09/11/2024	09/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.80		0.276	mg/kg	10	B411036	09/10/2024	09/11/2024	
Barium	112		9.52	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.168	0.421	mg/kg dry	1	2682470	10/08/2024	10/08/2024	U
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 Wheat Ridge CO 80033

Alfred Garraffa  
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 Project: Noble - State #36-614

**EX-SS-08@7'**

**9/10/2024 1:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409241-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411028	09/10/2024	09/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	63.5 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B411032	09/10/2024	09/11/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130	"	"	"	"	"	"

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8000 W 44th Ave  
Wheat Ridge CO 80033

Alfred Garraffa  
Project Number: [none]  
Project: Noble - State #36-614

**EX-SS-08@7'**

**9/10/2024 1:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E409241-03 (Soil)**

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411027	09/10/2024	09/10/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

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 Project Number: [none]  
 Project: Noble - State #36-614

**EX-SS-08@7'**

**9/10/2024 1:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E409241-03 (Soil)**

**pH in Soil by 9045D**

pH	8.41			pH Units	1	B411115	09/11/2024	09/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.62		0.277	mg/kg	10	B411036	09/10/2024	09/11/2024	
Barium	96.0		9.55	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.149	0.372	mg/kg dry	1	2682470	10/08/2024	10/08/2024	U
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Wheat Ridge CO 80033

Alfred Garraffa  
Project Number: [none]  
Project: Noble - State #36-614

**EX-SS-09@7'**

**9/10/2024 2:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E409241-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411028	09/10/2024	09/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	83.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411032	09/10/2024	09/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			"	"	"	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %		70-130			"	"	"	

Origins Laboratory



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

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**EX-SS-09@7'**

**9/10/2024 2:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409241-04 (Soil)**

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411027	09/10/2024	09/10/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

Origins Laboratory



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**EX-SS-09@7'**

**9/10/2024 2:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E409241-04 (Soil)**

**pH in Soil by 9045D**

pH	9.18			pH Units	1	B411115	09/11/2024	09/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	7.70		0.259	mg/kg	10	B411036	09/10/2024	09/11/2024	
Barium	95.5		8.92	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.0992	0.248	mg/kg dry	1	2682470	10/08/2024	10/08/2024	U
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Origins Laboratory

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**EX-FS-02@8'**

**9/10/2024 2:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409241-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411028	09/10/2024	09/10/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	81.8 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B411032	09/10/2024	09/11/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	130 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130	"	"	"	"	"	"

Origins Laboratory



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**EX-FS-02@8'**

**9/10/2024 2:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409241-05 (Soil)**

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411027	09/10/2024	09/10/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**EX-FS-02@8'**

**9/10/2024 2:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409241-05 (Soil)**

**pH in Soil by 9045D**

pH	8.45			pH Units	1	B411115	09/11/2024	09/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.38		0.267	mg/kg	10	B411036	09/10/2024	09/11/2024	
Barium	84.8		9.20	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.164	0.410	mg/kg dry	1	2682470	10/08/2024	10/08/2024	U
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Origins Laboratory

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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B411028 - EPA 3550B</b>										
<b>Blank (B411028-BLK1)</b>										
					Prepared: 09/10/2024 Analyzed: 09/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	22		"	24.9		88.4	50-150			

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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4I1028 - EPA 3550B**

**LCS (B4I1028-BS1)**

Prepared: 09/10/2024 Analyzed: 09/10/2024

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4I1028 - EPA 3550B**

<b>Matrix Spike (B4I1028-MS1)</b>	<b>Source: E409215-01</b>			<b>Prepared: 09/10/2024 Analyzed: 09/10/2024</b>						
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411028 - EPA 3550B**

<b>Matrix Spike Dup (B411028-MSD1)</b>	<b>Source: E409215-01</b>		<b>Prepared: 09/10/2024 Analyzed: 09/10/2024</b>							
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	6.89	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	6.00	35	
<i>Surrogate: o-Terphenyl</i>	49		"	49.8		98.0	50-150			

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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411032 - EPA 5030 (soil)**

**Blank (B411032-BLK1)**

Prepared: 09/10/2024 Analyzed: 09/10/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.3	70-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4I1032 - EPA 5030 (soil)**

**LCS (B4I1032-BS1)**

Prepared: 09/10/2024 Analyzed: 09/10/2024

1,2,4-Trimethylbenzene	0.0978	0.00200	mg/kg	0.100		97.8	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.0971	0.00380	"	0.100		97.1	70-130			
Toluene	0.0995	0.00200	"	0.100		99.5	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.8	70-130			

Origins Laboratory



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8000 W 44th Ave  
Wheat Ridge CO 80033

Alfred Garraffa  
Project Number: [none]  
Project: Noble - State #36-614

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411032 - EPA 5030 (soil)**

<b>Matrix Spike (B411032-MS1)</b>	<b>Source: E409215-01</b>			<b>Prepared: 09/10/2024 Analyzed: 09/10/2024</b>						
1,2,4-Trimethylbenzene	0.0920	0.00200	mg/kg	0.100	ND	92.0	70-130			
1,3,5-Trimethylbenzene	0.0950	0.00200	"	0.100	ND	95.0	70-130			
Benzene	0.107	0.00200	"	0.100	ND	107	70-130			
Ethylbenzene	0.0985	0.00200	"	0.100	ND	98.5	70-130			
Naphthalene	0.0917	0.00380	"	0.100	ND	91.7	70-130			
Toluene	0.0963	0.00200	"	0.100	ND	96.3	70-130			
o-Xylene	0.0985	0.00200	"	0.100	ND	98.5	70-130			
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.8	70-130			

Origins Laboratory



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

Alfred Garraffa  
Project Number: [none]  
Project: Noble - State #36-614

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411032 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B411032-MSD1)</b>	<b>Source: E409215-01</b>			<b>Prepared: 09/10/2024 Analyzed: 09/10/2024</b>						
1,2,4-Trimethylbenzene	0.0946	0.00200	mg/kg	0.100	ND	94.6	70-130	2.83	20	
1,3,5-Trimethylbenzene	0.0995	0.00200	"	0.100	ND	99.5	70-130	4.65	20	
Benzene	0.110	0.00200	"	0.100	ND	110	70-130	3.03	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	3.78	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	9.67	20	
Toluene	0.0992	0.00200	"	0.100	ND	99.2	70-130	2.93	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	3.32	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	3.73	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.3	70-130			

Origins Laboratory



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

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**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4I1036 - EPA 3050B**

**Blank (B4I1036-BLK1)**

Prepared: 09/10/2024 Analyzed: 09/11/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4I1036-BS1)**

Prepared: 09/10/2024 Analyzed: 09/11/2024

Arsenic	5.67	0.290	mg/kg	5.00		113	80-120			
Barium	572	10.0	"	500		114	80-120			
Cadmium	5.74	0.100	"	5.00		115	80-120			
Copper	54.6	10.0	"	50.0		109	80-120			
Lead	5.51	1.00	"	5.00		110	80-120			
Nickel	5.62	1.00	"	5.00		112	80-120			
Selenium	5.25	0.260	"	5.00		105	80-120			
Silver	5.62	0.100	"	5.00		112	80-120			
Zinc	57.0	37.0	"	50.0		114	80-120			

**Matrix Spike (B4I1036-MS1)**

Source: E409239-02

Prepared: 09/10/2024 Analyzed: 09/11/2024

Origins Laboratory

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411036 - EPA 3050B**

<b>Matrix Spike (B411036-MS1)</b>		<b>Source: E409239-02</b>			<b>Prepared: 09/10/2024 Analyzed: 09/11/2024</b>					
Arsenic	10.4	0.278	mg/kg	4.80	4.82	116	75-125			
Barium	595	9.60	"	480	75.8	108	75-125			
Cadmium	5.29	0.0960	"	4.80	0.0869	108	75-125			
Copper	58.6	9.60	"	48.0	6.43	109	75-125			
Lead	13.2	0.960	"	4.80	7.73	115	75-125			
Nickel	14.6	0.960	"	4.80	9.07	115	75-125			
Selenium	4.73	0.250	"	4.80	0.105	96.4	75-125			
Silver	5.32	0.0960	"	4.80	0.0147	111	75-125			
Zinc	86.9	35.5	"	48.0	33.4	112	75-125			

<b>Matrix Spike Dup (B411036-MSD1)</b>		<b>Source: E409239-02</b>			<b>Prepared: 09/10/2024 Analyzed: 09/11/2024</b>					
Arsenic	9.60	0.267	mg/kg	4.60	4.82	104	75-125	8.06	20	
Barium	559	9.19	"	460	75.8	105	75-125	6.27	20	
Cadmium	5.00	0.0919	"	4.60	0.0869	107	75-125	5.45	20	
Copper	54.4	9.19	"	46.0	6.43	104	75-125	7.35	20	
Lead	12.5	0.919	"	4.60	7.73	103	75-125	6.07	20	
Nickel	13.7	0.919	"	4.60	9.07	101	75-125	6.08	20	
Selenium	4.55	0.239	"	4.60	0.105	96.7	75-125	3.91	20	
Silver	4.93	0.0919	"	4.60	0.0147	107	75-125	7.68	20	
Zinc	81.1	34.0	"	46.0	33.4	104	75-125	6.87	20	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - State #36-614

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411027 - EPA 3580**

**Blank (B411027-BLK1)**

Prepared: 09/10/2024 Analyzed: 09/10/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200	101	60-130
Surrogate: Anthracene-d10	180		"	200	89.1	60-130
Surrogate: Pyrene-d10	190		"	200	95.1	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	98.7	60-130

**LCS (B411027-BS1)**

Prepared: 09/10/2024 Analyzed: 09/10/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	98.8	70-130
2-Methylnaphthalene	0.198	0.002	"	0.200	99.2	70-130
Acenaphthene	0.215	0.020	"	0.200	108	70-130
Anthracene	0.195	0.020	"	0.200	97.7	70-130

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411027 - EPA 3580**

**LCS (B411027-BS1)**

Prepared: 09/10/2024 Analyzed: 09/10/2024

Benzo (a) anthracene	0.203	0.005	mg/kg	0.200		102	70-130			
Benzo (a) pyrene	0.210	0.020	"	0.200		105	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200		100	70-130			
Benzo (g,h,i) perylene	0.209	0.020	"	0.200		105	70-130			
Benzo (k) fluoranthene	0.200	0.020	"	0.200		100	70-130			
Chrysene	0.194	0.020	"	0.200		97.2	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200		98.8	70-130			
Fluoranthene	0.202	0.020	"	0.200		101	70-130			
Fluorene	0.223	0.020	"	0.200		112	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200		99.5	70-130			
Naphthalene	0.214	0.002	"	0.200		107	70-130			
Phenanthrene	0.199	0.020	"	0.200		99.3	70-130			
Pyrene	0.196	0.020	"	0.200		98.1	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		92.5	60-130			
Surrogate: Pyrene-d10	190		"	200		94.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

**Matrix Spike (B411027-MS1)**

**Source: E409215-01**

Prepared: 09/10/2024 Analyzed: 09/10/2024

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200	0.004	99.8	70-130			
2-Methylnaphthalene	0.204	0.002	"	0.200	0.005	99.4	70-130			
Acenaphthene	0.213	0.020	"	0.200	ND	107	70-130			
Anthracene	0.196	0.020	"	0.200	0.004	96.4	70-130			
Benzo (a) anthracene	0.205	0.005	"	0.200	0.001	102	70-130			
Benzo (a) pyrene	0.216	0.020	"	0.200	0.002	107	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200	0.001	98.5	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	0.001	99.6	70-130			

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411027 - EPA 3580**

<b>Matrix Spike (B411027-MS1)</b>	<b>Source: E409215-01</b>			<b>Prepared: 09/10/2024 Analyzed: 09/10/2024</b>						
Benzo (k) fluoranthene	0.204	0.020	mg/kg	0.200	0.0009	101	70-130			
Chrysene	0.192	0.020	"	0.200	0.001	95.3	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	0.006	96.3	70-130			
Fluoranthene	0.198	0.020	"	0.200	0.004	97.2	70-130			
Fluorene	0.220	0.020	"	0.200	ND	110	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	0.004	95.4	70-130			
Naphthalene	0.208	0.002	"	0.200	0.001	103	70-130			
Phenanthrene	0.195	0.020	"	0.200	0.004	95.7	70-130			
Pyrene	0.196	0.020	"	0.200	0.003	96.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.2	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

<b>Matrix Spike Dup (B411027-MSD1)</b>	<b>Source: E409215-01</b>			<b>Prepared: 09/10/2024 Analyzed: 09/10/2024</b>						
1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	0.004	95.2	70-130	4.60	20	
2-Methylnaphthalene	0.195	0.002	"	0.200	0.005	94.9	70-130	4.58	20	
Acenaphthene	0.211	0.020	"	0.200	ND	105	70-130	1.10	20	
Anthracene	0.190	0.020	"	0.200	0.004	93.0	70-130	3.50	20	
Benzo (a) anthracene	0.202	0.005	"	0.200	0.001	101	70-130	1.25	20	
Benzo (a) pyrene	0.212	0.020	"	0.200	0.002	105	70-130	1.55	20	
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.001	98.2	70-130	0.291	20	
Benzo (g,h,i) perylene	0.205	0.020	"	0.200	0.001	102	70-130	2.38	20	
Benzo (k) fluoranthene	0.198	0.020	"	0.200	0.0009	98.8	70-130	2.71	20	
Chrysene	0.190	0.020	"	0.200	0.001	94.1	70-130	1.20	20	
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	0.006	96.2	70-130	0.0786	20	
Fluoranthene	0.196	0.020	"	0.200	0.004	96.3	70-130	0.924	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411027 - EPA 3580**

<b>Matrix Spike Dup (B411027-MSD1)</b>	<b>Source: E409215-01</b>			<b>Prepared: 09/10/2024 Analyzed: 09/10/2024</b>						
Fluorene	0.215	0.020	mg/kg	0.200	ND	108	70-130	2.23	20	
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	0.004	96.3	70-130	1.00	20	
Naphthalene	0.198	0.002	"	0.200	0.001	98.6	70-130	4.58	20	
Phenanthrene	0.194	0.020	"	0.200	0.004	95.1	70-130	0.691	20	
Pyrene	0.194	0.020	"	0.200	0.003	95.3	70-130	1.31	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B411115 - Saturated Paste pH/EC**

Duplicate (B411115-DUP1)		Source: E409205-01			Prepared: 09/11/2024 Analyzed: 09/12/2024					
pH	8.40		pH Units		8.39			0.119	25	

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 Project: Noble - State #36-614

**Total Metals 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2682470 - SW846 3060A</b>										
<b>BLANK (1205875347-BLK)</b>					Prepared: 10/08/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	ND	0.280	mg/kg				-			U
<b>LCS (1205875348-BKS)</b>					Prepared: 10/08/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	3.69	0.367	mg/kg	3.67		101	80-120			
<b>DUP (1205875349 D)</b>					Prepared: 10/08/2024 Analyzed: 10/08/2024					
<b>Source: E409241-01</b>										
Hexavalent Chromium	ND	0.392	mg/kg dry		<0.157		0-50	N/A	50	U
<b>MS (1205875350 S)</b>					Prepared: 10/08/2024 Analyzed: 10/08/2024					
<b>Source: E409241-01</b>										
Hexavalent Chromium	3.51	0.403	mg/kg dry	4.03	<0.161	85.1	75-125			
<b>DUP (1205875351 D)</b>					Prepared: 10/08/2024 Analyzed: 10/08/2024					
<b>Source: E409241-02</b>										
Hexavalent Chromium	ND	0.398	mg/kg dry		<0.159		0-50	N/A	50	U
<b>MS (1205875352 S)</b>					Prepared: 10/08/2024 Analyzed: 10/08/2024					
<b>Source: E409241-02</b>										
Hexavalent Chromium	2.88	0.358	mg/kg dry	3.58	<0.143	80.5	75-125			
<b>ILCS (1205875353-ILCS)</b>					Prepared: 10/08/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	7.48	0.364	mg/kg	7.31		102	80-120			

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Alfred Garraffa  
Project Number: [none]  
Project: Noble - State #36-614

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**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection 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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