



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

October 15, 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 09, 2024. This project is associated with Origins project number E409205-01.

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-02@7'	E409205-01	Soil	September 9, 2024 10:50	09/09/2024 15:05
EX-SS-03@7'	E409205-02	Soil	September 9, 2024 12:50	09/09/2024 15:05
EX-SS-04@7'	E409205-03	Soil	September 9, 2024 12:55	09/09/2024 15:05
EX-SS-05@7'	E409205-04	Soil	September 9, 2024 13:25	09/09/2024 15:05

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E409205 Client: Eagle
 Checklist Completed by: [Signature] Client Project ID: State 30-614
 Date/time completed: 9/19/12 Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1,4,3 °C °C °C (Describe)
 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 ⁽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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 9/19/12

Origins Laboratory

[Signature]

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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-02@7'

9/9/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409205-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B410930	09/09/2024	09/09/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	100 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B410932	09/09/2024	09/10/2024	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	94.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	83.6 %		70-130			"	"	"	

Origins Laboratory



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

EX-SS-02@7'

9/9/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409205-01 (Soil)**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B410928	09/09/2024	09/09/2024	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	97.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

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EX-SS-02@7'

9/9/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409205-01 (Soil)**

pH in Soil by 9045D

pH	8.39			pH Units	1	B411115	09/11/2024	09/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.30		0.255	mg/kg	10	B410934	09/09/2024	09/10/2024	
Barium	127		8.78	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.116	0.290	mg/kg dry	1	2682466	10/07/2024	10/08/2024	U
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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-03@7'

9/9/2024 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409205-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B410930	09/09/2024	09/09/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	112 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B410932	09/09/2024	09/09/2024	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	88.4 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	97.2 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	85.1 %	70-130	"	"	"	"	"	"

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Alfred Garraffa
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Project: Noble - State #36-614

EX-SS-03@7'

9/9/2024 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409205-02 (Soil)**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B410928	09/09/2024	09/09/2024	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	92.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

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 Wheat Ridge CO 80033

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EX-SS-03@7'

9/9/2024 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409205-02 (Soil)**

pH in Soil by 9045D

pH	8.36			pH Units	1	B411115	09/11/2024	09/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	12.5		0.246	mg/kg	10	B410934	09/09/2024	09/10/2024	
Barium	104		8.48	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.109	0.273	mg/kg dry	1	2682466	10/07/2024	10/08/2024	U
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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-04@7'

9/9/2024 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409205-03 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B410930	09/09/2024	09/09/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	108 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B410932	09/09/2024	09/09/2024	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	88.5 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	84.0 %		70-130			"	"	"	

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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-04@7'

9/9/2024 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409205-03 (Soil)**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B410928	09/09/2024	09/09/2024	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	99.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

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 Wheat Ridge CO 80033

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

EX-SS-04@7'

9/9/2024 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409205-03 (Soil)**

pH in Soil by 9045D

pH	8.44			pH Units	1	B411115	09/11/2024	09/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.73		0.261	mg/kg	10	B410934	09/09/2024	09/10/2024	
Barium	94.5		8.99	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.112	0.281	mg/kg dry	1	2682466	10/07/2024	10/08/2024	U
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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

EX-SS-05@7'

9/9/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409205-04 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B410930	09/09/2024	09/09/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	113 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B410932	09/09/2024	09/09/2024	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	88.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	83.6 %		70-130			"	"	"	

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 8000 W 44th Ave
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Alfred Garraffa
 Project Number: [none]
 Project: Noble - State #36-614

EX-SS-05@7'

9/9/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409205-04 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B410928	09/09/2024	09/09/2024	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	98.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

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-05@7'

9/9/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409205-04 (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	5.53		0.269	mg/kg	10	B410934	09/09/2024	09/10/2024	
Barium	128		9.29	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.120	0.301	mg/kg dry	1	2682466	10/07/2024	10/08/2024	U
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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

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
Batch B410930 - EPA 3550B										
Blank (B410930-BLK1)										
					Prepared: 09/09/2024 Analyzed: 09/09/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		99.8	50-150			

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

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 B410930 - EPA 3550B

LCS (B410930-BS1)

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

Diesel (C10-C28)	905	50.0	mg/kg	1000		90.5	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

Origins Laboratory

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Eagle Environmental Consulting, LLC
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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 B410930 - EPA 3550B

Matrix Spike (B410930-MS1)	Source: E409200-01			Prepared: 09/09/2024 Analyzed: 09/09/2024						
Diesel (C10-C28)	905	50.0	mg/kg	1000	ND	90.5	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	66		"	49.8		134	50-150			

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
Batch B410930 - EPA 3550B										
Matrix Spike Dup (B410930-MSD1)		Source: E409200-01			Prepared: 09/09/2024 Analyzed: 09/09/2024					
Diesel (C10-C28)	922	50.0	mg/kg	1000	ND	92.2	70-130	1.80	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	0.616	35	
Surrogate: o-Terphenyl	64		"	49.8		128	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 B410932 - EPA 5030 (soil)

Blank (B410932-BLK1)

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

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		88.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.0	70-130			

Origins Laboratory

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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 B410932 - EPA 5030 (soil)

LCS (B410932-BS1)

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

1,2,4-Trimethylbenzene	0.0951	0.00200	mg/kg	0.100		95.1	70-130			
1,3,5-Trimethylbenzene	0.0982	0.00200	"	0.100		98.2	70-130			
Benzene	0.0962	0.00200	"	0.100		96.2	70-130			
Ethylbenzene	0.0981	0.00200	"	0.100		98.1	70-130			
Naphthalene	0.0969	0.00380	"	0.100		96.9	70-130			
Toluene	0.0936	0.00200	"	0.100		93.6	70-130			
o-Xylene	0.0963	0.00200	"	0.100		96.3	70-130			
m,p-Xylene	0.207	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.8	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 B410932 - EPA 5030 (soil)

Matrix Spike (B410932-MS1)	Source: E409200-01			Prepared: 09/09/2024 Analyzed: 09/09/2024						
1,2,4-Trimethylbenzene	0.0902	0.00200	mg/kg	0.100	ND	90.2	70-130			
1,3,5-Trimethylbenzene	0.0933	0.00200	"	0.100	ND	93.3	70-130			
Benzene	0.0908	0.00200	"	0.100	ND	90.8	70-130			
Ethylbenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
Naphthalene	0.0939	0.00380	"	0.100	ND	93.9	70-130			
Toluene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
o-Xylene	0.0918	0.00200	"	0.100	ND	91.8	70-130			
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.4	70-130			

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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 B410932 - EPA 5030 (soil)

Matrix Spike Dup (B410932-MSD1)	Source: E409200-01			Prepared: 09/09/2024 Analyzed: 09/10/2024						
1,2,4-Trimethylbenzene	0.0814	0.00200	mg/kg	0.100	ND	81.4	70-130	10.2	20	
1,3,5-Trimethylbenzene	0.0844	0.00200	"	0.100	ND	84.4	70-130	9.99	20	
Benzene	0.0841	0.00200	"	0.100	ND	84.1	70-130	7.69	20	
Ethylbenzene	0.0880	0.00200	"	0.100	ND	88.0	70-130	5.91	20	
Naphthalene	0.0854	0.00380	"	0.100	ND	85.4	70-130	9.53	20	
Toluene	0.0821	0.00200	"	0.100	ND	82.1	70-130	8.20	20	
o-Xylene	0.0856	0.00200	"	0.100	ND	85.6	70-130	6.99	20	
m,p-Xylene	0.180	0.00400	"	0.200	ND	90.0	70-130	9.00	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.0	70-130			

Origins Laboratory

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 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 B4I0934 - EPA 3050B

Blank (B4I0934-BLK1)

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

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 (B4I0934-BS1)

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

Arsenic	5.61	0.290	mg/kg	5.00		112	80-120			
Barium	569	10.0	"	500		114	80-120			
Cadmium	5.64	0.100	"	5.00		113	80-120			
Copper	55.4	10.0	"	50.0		111	80-120			
Lead	5.55	1.00	"	5.00		111	80-120			
Nickel	5.68	1.00	"	5.00		114	80-120			
Selenium	5.52	0.260	"	5.00		110	80-120			
Silver	5.70	0.100	"	5.00		114	80-120			
Zinc	54.5	37.0	"	50.0		109	80-120			

Matrix Spike (B4I0934-MS1)

Source: E409200-01

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

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

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 B410934 - EPA 3050B

Matrix Spike (B410934-MS1)		Source: E409200-01			Prepared: 09/09/2024 Analyzed: 09/10/2024					
Arsenic	7.91	0.249	mg/kg	4.29	10.2	NR	75-125			QM-07
Barium	609	8.59	"	429	177	101	75-125			
Cadmium	4.60	0.0859	"	4.29	0.343	99.2	75-125			
Copper	52.0	8.59	"	42.9	22.2	69.4	75-125			QM-07
Lead	12.1	0.859	"	4.29	11.9	4.63	75-125			QM-07
Nickel	13.2	0.859	"	4.29	13.3	NR	75-125			QM-07
Selenium	4.55	0.223	"	4.29	0.408	96.6	75-125			
Silver	4.54	0.0859	"	4.29	0.0300	105	75-125			
Zinc	75.3	31.8	"	42.9	49.7	59.8	75-125			QM-07

Matrix Spike Dup (B410934-MSD1)		Source: E409200-01			Prepared: 09/09/2024 Analyzed: 09/10/2024					
Arsenic	8.00	0.265	mg/kg	4.57	10.2	NR	75-125	1.18	20	QM-07
Barium	643	9.13	"	457	177	102	75-125	5.39	20	
Cadmium	5.26	0.0913	"	4.57	0.343	108	75-125	13.3	20	
Copper	57.5	9.13	"	45.7	22.2	77.5	75-125	10.2	20	QM-07
Lead	12.8	0.913	"	4.57	11.9	19.8	75-125	5.67	20	QM-07
Nickel	13.0	0.913	"	4.57	13.3	NR	75-125	1.34	20	QM-07
Selenium	4.98	0.237	"	4.57	0.408	100	75-125	8.87	20	
Silver	5.16	0.0913	"	4.57	0.0300	112	75-125	12.7	20	
Zinc	79.5	33.8	"	45.7	49.7	65.3	75-125	5.35	20	QM-07

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

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 B410928 - EPA 3580

Blank (B410928-BLK1)

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

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	190		ug/kg	200		97.1	60-130			
Surrogate: Anthracene-d10	180		"	200		91.2	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

LCS (B410928-BS1)

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

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200		97.0	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200		96.8	70-130			
Acenaphthene	0.207	0.020	"	0.200		103	70-130			
Anthracene	0.190	0.020	"	0.200		95.1	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

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 B410928 - EPA 3580

LCS (B410928-BS1)

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

Benzo (a) anthracene	0.196	0.005	mg/kg	0.200		98.1	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200		102	70-130			
Benzo (b) fluoranthene	0.195	0.020	"	0.200		97.7	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		100	70-130			
Benzo (k) fluoranthene	0.200	0.020	"	0.200		99.8	70-130			
Chrysene	0.186	0.020	"	0.200		92.9	70-130			
Dibenz (a,h) anthracene	0.191	0.020	"	0.200		95.3	70-130			
Fluoranthene	0.180	0.020	"	0.200		90.1	70-130			
Fluorene	0.207	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200		95.4	70-130			
Naphthalene	0.210	0.002	"	0.200		105	70-130			
Phenanthrene	0.192	0.020	"	0.200		95.9	70-130			
Pyrene	0.206	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130			
Surrogate: Anthracene-d10	180		"	200		91.0	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike (B410928-MS1)

Source: E409128-01

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

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	98.1	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.7	70-130			
Acenaphthene	0.206	0.020	"	0.200	ND	103	70-130			
Anthracene	0.191	0.020	"	0.200	0.002	94.9	70-130			
Benzo (a) anthracene	0.196	0.005	"	0.200	ND	97.9	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200	ND	95.9	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200	ND	94.6	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	ND	99.0	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

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 B410928 - EPA 3580

Matrix Spike (B410928-MS1)	Source: E409128-01			Prepared: 09/09/2024 Analyzed: 09/09/2024						
Benzo (k) fluoranthene	0.186	0.020	mg/kg	0.200	ND	93.2	70-130			
Chrysene	0.183	0.020	"	0.200	ND	91.4	70-130			
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130			
Fluoranthene	0.189	0.020	"	0.200	0.002	93.4	70-130			
Fluorene	0.205	0.020	"	0.200	ND	103	70-130			
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	ND	99.9	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.190	0.020	"	0.200	0.001	94.1	70-130			
Pyrene	0.188	0.020	"	0.200	0.002	93.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130			
Surrogate: Anthracene-d10	190		"	200		93.4	60-130			
Surrogate: Pyrene-d10	190		"	200		96.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B410928-MSD1)	Source: E409128-01			Prepared: 09/09/2024 Analyzed: 09/09/2024						
1-Methylnaphthalene	0.232	0.002	mg/kg	0.200	ND	116	70-130	16.8	20	
2-Methylnaphthalene	0.234	0.002	"	0.200	ND	117	70-130	19.9	20	
Acenaphthene	0.245	0.020	"	0.200	ND	123	70-130	17.5	20	
Anthracene	0.223	0.020	"	0.200	0.002	111	70-130	15.4	20	
Benzo (a) anthracene	0.237	0.005	"	0.200	ND	118	70-130	19.0	20	
Benzo (a) pyrene	0.235	0.020	"	0.200	ND	117	70-130	20.2	20	QR-02
Benzo (b) fluoranthene	0.223	0.020	"	0.200	ND	111	70-130	16.3	20	
Benzo (g,h,i) perylene	0.231	0.020	"	0.200	ND	116	70-130	15.5	20	
Benzo (k) fluoranthene	0.228	0.020	"	0.200	ND	114	70-130	20.3	20	QR-02
Chrysene	0.220	0.020	"	0.200	ND	110	70-130	18.3	20	
Dibenz (a,h) anthracene	0.233	0.020	"	0.200	ND	116	70-130	14.2	20	
Fluoranthene	0.223	0.020	"	0.200	0.002	111	70-130	16.7	20	

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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

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 B410928 - EPA 3580

Matrix Spike Dup (B410928-MSD1)	Source: E409128-01			Prepared: 09/09/2024 Analyzed: 09/09/2024						
Fluorene	0.246	0.020	mg/kg	0.200	ND	123	70-130	17.8	20	
Indeno (1,2,3-cd) pyrene	0.231	0.020	"	0.200	ND	115	70-130	14.4	20	
Naphthalene	0.234	0.002	"	0.200	ND	117	70-130	14.6	20	
Phenanthrene	0.213	0.020	"	0.200	0.001	106	70-130	11.5	20	
Pyrene	0.226	0.020	"	0.200	0.002	112	70-130	18.6	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	200		"	200		97.8	60-130			
Surrogate: Pyrene-d10	190		"	200		97.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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Project: Noble - State #36-614

Saturated Paste - Quality Control
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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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Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
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
Batch 2682466 - SW846 3060A										
BLANK (1205875333-BLK)					Prepared: 10/07/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	ND	0.271	mg/kg				-			U
LCS (1205875334-BKS)					Prepared: 10/07/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	3.77	0.379	mg/kg	3.79		99.5	80-120			
DUP (1205875335 D)					Source: 685113001 Prepared: 10/07/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	ND	0.258	mg/kg dry		<0.103		0-50	N/A	50	U
MS (1205875336 S)					Source: 685113001 Prepared: 10/07/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	2.51	0.258	mg/kg dry	2.58	<0.103	96.2	75-125			
DUP (1205875337 D)					Source: 685113002 Prepared: 10/07/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	ND	0.215	mg/kg dry		<0.0862		0-50	N/A	50	U
MS (1205875338 S)					Source: 685113002 Prepared: 10/07/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	2.14	0.215	mg/kg dry	2.15	<0.0862	99.5	75-125			
ILCS (1205875339-ILCS)					Prepared: 10/07/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	8.06	0.390	mg/kg	7.88		102	80-120			

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8000 W 44th Ave
Wheat Ridge CO 80033

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

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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.

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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