



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

October 25, 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 16, 2024. This project is associated with Origins project number E409434-01.

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-FS-03@8'	E409434-01	Soil	September 16, 2024 14:15	09/16/2024 16:32
EX-SS-18@7'	E409434-02	Soil	September 16, 2024 14:20	09/16/2024 16:32
EX-SS-19@7'	E409434-03	Soil	September 16, 2024 14:25	09/16/2024 16:32
EX-SS-20@7'	E409434-04	Soil	September 16, 2024 14:30	09/16/2024 16:32
EX-SS-21@7'	E409434-05	Soil	September 16, 2024 14:45	09/16/2024 16:32
EX-SS-22@7'	E409434-06	Soil	September 16, 2024 14:50	09/16/2024 16:32
EX-SS-23@7'	E409434-07	Soil	September 16, 2024 14:55	09/16/2024 16:32

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 INC

ORIGINS WORK ORDER #

EW004434

Page 1 of 1

Client: Eagle Environmental Consulting

Project Manager: Alfred Garraffa

Key:

Address: 8000 W 44th Ave

Project Name: Site #36-614

W=Water

Telephone Number: 303-433-0479

Project Number: 6

GW=Groundwater

Email Address: algarraffa@eagleenvironment.com

Collected By: AG

SW=Surface Water

Invoice/Billing Info: Noble / Bill to Jen

W/W=Waste Water

L=Liquid

S=soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis		Comments
							Method	Result	
1	EX-SS-03e8'	9/16/24	1415	3	UNP	X	X	X	MLs Needed
2	EX-SS-18e7'	1420	1	1	UNP	X	X	X	Salvaged bott
3	EX-SS-11e7'	1425	1	1	UNP	X	X	X	Salvaged bott
4	EX-SS-20e7'	1430	1	1	UNP	X	X	X	Salvaged bott
5	EX-SS-21e7'	1435	1	1	UNP	X	X	X	Salvaged bott
6	EX-SS-22e7'	1440	1	1	UNP	X	X	X	Salvaged bott
7	EX-SS-23e7'	1455	1	1	UNP	X	X	X	Salvaged bott
8									
9									
10									


Relinquished By: AG Date: 9/16/24 Time: 1400

Received By: AG Date: 9/16/24 Time: 1632

Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Standard

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received- 4.3 Received On Ice? Yes No

Origins Laboratory


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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: E409434 Client: Eagle
 Checklist Completed by: KK Client Project ID: State #36-614
 Date/time completed: 9/16/24 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: _____
 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⁾ ?	/			
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 (> ¼ 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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) AG Date/Time Reviewed 9/16/24

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-03@8'

9/16/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411649	09/16/2024	09/16/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	72.8 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B411644	09/16/2024	09/16/2024	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	116 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"	"	"	"

Origins Laboratory



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EX-FS-03@8'

9/16/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-01 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411645	09/16/2024	09/16/2024	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
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

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EX-FS-03@8'

9/16/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-01 (Soil)

pH in Soil by 9045D

pH	8.57			pH Units	1	B412414	09/24/2024	09/25/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.00		0.269	mg/kg	10	B411650	09/16/2024	09/17/2024	
Barium	119		9.27	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.169	0.422	mg/kg dry	1	2682514	10/11/2024	10/18/2024	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-18@7'

9/16/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411649	09/16/2024	09/16/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 126 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B411644	09/16/2024	09/16/2024	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 100 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

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EX-SS-18@7'

9/16/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-02 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411645	09/16/2024	09/16/2024	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
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	111 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

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EX-SS-18@7'

9/16/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409434-02 (Soil)**

pH in Soil by 9045D

pH	8.43			pH Units	1	B412414	09/24/2024	09/25/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.63		0.278	mg/kg	10	B411650	09/16/2024	09/17/2024	
Barium	69.0		9.59	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.160	0.400	mg/kg dry	1	2682514	10/11/2024	10/18/2024	U
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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-19@7'

9/16/2024 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411649	09/16/2024	09/16/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	83.9 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B411644	09/16/2024	09/16/2024	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	102 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	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-19@7'

9/16/2024 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409434-03 (Soil)**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411645	09/16/2024	09/16/2024	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
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	117 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

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

EX-SS-19@7'

9/16/2024 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409434-03 (Soil)**

pH in Soil by 9045D

pH	8.49			pH Units	1	B412414	09/24/2024	09/25/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.80		0.251	mg/kg	10	B411650	09/16/2024	09/17/2024	
Barium	102		8.65	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.152	0.380	mg/kg dry	1	2682514	10/11/2024	10/18/2024	U
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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-20@7'

9/16/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411649	09/16/2024	09/16/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	70.2 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B411644	09/16/2024	09/16/2024	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	123 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	127 %	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-20@7'

9/16/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-04 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411645	09/16/2024	09/16/2024	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
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	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-20@7'

9/16/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409434-04 (Soil)**

pH in Soil by 9045D

pH	8.52			pH Units	1	B412414	09/24/2024	09/25/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.98		0.278	mg/kg	10	B411650	09/16/2024	09/17/2024	
Barium	133		9.60	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.168	0.420	mg/kg dry	1	2682514	10/11/2024	10/18/2024	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-21@7'

9/16/2024 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409434-05 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411649	09/16/2024	09/16/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	90.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411644	09/16/2024	09/17/2024	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	123 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.4 %		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-21@7'

9/16/2024 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-05 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411645	09/16/2024	09/16/2024	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
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.3 %	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-21@7'

9/16/2024 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409434-05 (Soil)**

pH in Soil by 9045D

pH	8.71			pH Units	1	B412414	09/24/2024	09/25/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.88		0.258	mg/kg	10	B411650	09/16/2024	09/17/2024	
Barium	118		8.90	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.189	0.472	mg/kg dry	1	2682514	10/11/2024	10/18/2024	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-22@7'

9/16/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411649	09/16/2024	09/16/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	107 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B411644	09/16/2024	09/16/2024	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	127 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	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-22@7'

9/16/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409434-06 (Soil)**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411645	09/16/2024	09/16/2024	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
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	103 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	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-22@7'

9/16/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409434-06 (Soil)**

pH in Soil by 9045D

pH	8.47			pH Units	1	B412414	09/24/2024	09/25/2024	
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Table 915 metals by EPA 6020B

Arsenic	12.0		0.274	mg/kg	10	B411650	09/16/2024	09/17/2024	
Barium	77.1		9.46	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.115	0.287	mg/kg dry	1	2682514	10/11/2024	10/18/2024	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-23@7'

9/16/2024 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409434-07 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411649	09/16/2024	09/16/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	78.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411644	09/16/2024	09/16/2024	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	128 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %		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-23@7'

9/16/2024 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409434-07 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411645	09/16/2024	09/16/2024	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
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	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-23@7'

9/16/2024 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409434-07 (Soil)**

pH in Soil by 9045D

pH	8.49			pH Units	1	B412414	09/24/2024	09/25/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.75		0.267	mg/kg	10	B411650	09/16/2024	09/17/2024	
Barium	87.2		9.20	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.169	0.423	mg/kg dry	1	2682514	10/11/2024	10/18/2024	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

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 B411644 - EPA 5030 (soil)

Blank (B411644-BLK1)

Prepared: 09/16/2024 Analyzed: 09/16/2024

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	0.13		"	0.125	107		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	108		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 B4I1644 - EPA 5030 (soil)

LCS (B4I1644-BS1)

Prepared: 09/16/2024 Analyzed: 09/16/2024

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100		118	70-130			
Benzene	0.0962	0.00200	"	0.100		96.2	70-130			
Ethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.0996	0.00200	"	0.100		99.6	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.224	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		122	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 B411644 - EPA 5030 (soil)

Matrix Spike (B411644-MS1)	Source: E409186-04			Prepared: 09/16/2024 Analyzed: 09/16/2024						
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.112	0.00200	"	0.100	ND	112	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.200	0.00400	"	0.200	ND	99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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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Batch B411644 - EPA 5030 (soil)

Matrix Spike Dup (B411644-MSD1)	Source: E409186-04			Prepared: 09/16/2024 Analyzed: 09/16/2024						
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	3.87	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	3.30	20	
Benzene	0.114	0.00200	"	0.100	ND	114	70-130	2.15	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	3.54	20	
Naphthalene	0.0882	0.00380	"	0.100	ND	88.2	70-130	13.5	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	1.85	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	3.51	20	
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130	3.80	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory

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 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
Batch B411649 - EPA 3550B										
Blank (B411649-BLK1)										
					Prepared: 09/16/2024 Analyzed: 09/16/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		92.3	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
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Batch B411649 - EPA 3550B

LCS (B411649-BS1)

Prepared: 09/16/2024 Analyzed: 09/16/2024

Diesel (C10-C28)	988	50.0	mg/kg	1000		98.8	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory

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 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 B4I1649 - EPA 3550B

Matrix Spike (B4I1649-MS1)	Source: E409186-04			Prepared: 09/16/2024 Analyzed: 09/16/2024						
Diesel (C10-C28)	1100	50.0	mg/kg	1000	ND	110	70-130			
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

Origins Laboratory

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 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 B411649 - EPA 3550B

Matrix Spike Dup (B411649-MSD1)	Source: E409186-04			Prepared: 09/16/2024 Analyzed: 09/16/2024						
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130	2.99	35	
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130	4.74	35	
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

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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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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 B4I1650 - EPA 3050B

Blank (B4I1650-BLK1)

Prepared: 09/16/2024 Analyzed: 09/17/2024

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 (B4I1650-BS1)

Prepared: 09/16/2024 Analyzed: 09/17/2024

Arsenic	4.95	0.290	mg/kg	5.00		99.1	80-120			
Barium	472	10.0	"	500		94.4	80-120			
Cadmium	4.71	0.100	"	5.00		94.3	80-120			
Copper	48.8	10.0	"	50.0		97.5	80-120			
Lead	4.76	1.00	"	5.00		95.2	80-120			
Nickel	5.15	1.00	"	5.00		103	80-120			
Selenium	4.79	0.260	"	5.00		95.8	80-120			
Silver	4.84	0.100	"	5.00		96.7	80-120			
Zinc	48.0	37.0	"	50.0		96.0	80-120			

Matrix Spike (B4I1650-MS1)

Source: E409428-01

Prepared: 09/16/2024 Analyzed: 09/17/2024

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 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 B411650 - EPA 3050B

Matrix Spike (B411650-MS1)		Source: E409428-01			Prepared: 09/16/2024 Analyzed: 09/17/2024					
Arsenic	6.79	0.269	mg/kg	4.64	2.60	90.2	75-125			
Barium	522	9.29	"	464	72.5	96.8	75-125			
Cadmium	4.55	0.0929	"	4.64	0.115	95.6	75-125			
Copper	52.0	9.29	"	46.4	7.12	96.6	75-125			
Lead	11.7	0.929	"	4.64	7.09	99.4	75-125			
Nickel	11.4	0.929	"	4.64	7.46	84.6	75-125			
Selenium	4.65	0.241	"	4.64	0.146	96.9	75-125			
Silver	1.38	0.0929	"	4.64	0.0434	28.8	75-125			QM-07
Zinc	70.7	34.4	"	46.4	31.8	83.6	75-125			

Matrix Spike Dup (B411650-MSD1)		Source: E409428-01			Prepared: 09/16/2024 Analyzed: 09/17/2024					
Arsenic	7.46	0.279	mg/kg	4.81	2.60	101	75-125	9.36	20	
Barium	537	9.62	"	481	72.5	96.6	75-125	2.92	20	
Cadmium	4.88	0.0962	"	4.81	0.115	98.9	75-125	6.82	20	
Copper	56.7	9.62	"	48.1	7.12	103	75-125	8.76	20	
Lead	12.1	0.962	"	4.81	7.09	104	75-125	3.28	20	
Nickel	12.3	0.962	"	4.81	7.46	102	75-125	8.06	20	
Selenium	4.95	0.250	"	4.81	0.146	99.8	75-125	6.33	20	
Silver	1.46	0.0962	"	4.81	0.0434	29.5	75-125	5.70	20	QM-07
Zinc	80.0	35.6	"	48.1	31.8	100	75-125	12.4	20	

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 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 B411645 - EPA 3580

Blank (B411645-BLK1)

Prepared: 09/16/2024 Analyzed: 09/16/2024

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		96.0	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

LCS (B411645-BS1)

Prepared: 09/16/2024 Analyzed: 09/16/2024

1-Methylnaphthalene	0.182	0.002	mg/kg	0.200		90.9	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200		93.8	70-130			
Acenaphthene	0.187	0.020	"	0.200		93.5	70-130			
Anthracene	0.176	0.020	"	0.200		88.1	70-130			

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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 B411645 - EPA 3580

LCS (B411645-BS1)

Prepared: 09/16/2024 Analyzed: 09/16/2024

Benzo (a) anthracene	0.185	0.005	mg/kg	0.200		92.4	70-130			
Benzo (a) pyrene	0.177	0.020	"	0.200		88.6	70-130			
Benzo (b) fluoranthene	0.214	0.020	"	0.200		107	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200		95.9	70-130			
Benzo (k) fluoranthene	0.170	0.020	"	0.200		85.0	70-130			
Chrysene	0.181	0.020	"	0.200		90.5	70-130			
Dibenz (a,h) anthracene	0.191	0.020	"	0.200		95.3	70-130			
Fluoranthene	0.186	0.020	"	0.200		93.1	70-130			
Fluorene	0.191	0.020	"	0.200		95.3	70-130			
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200		108	70-130			
Naphthalene	0.193	0.002	"	0.200		96.4	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.4	70-130			
Pyrene	0.197	0.020	"	0.200		98.3	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.3	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B411645-MS1)

Source: E409432-01

Prepared: 09/16/2024 Analyzed: 09/16/2024

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	0.0005	98.1	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200	ND	97.1	70-130			
Acenaphthene	0.196	0.020	"	0.200	0.002	97.2	70-130			
Anthracene	0.192	0.020	"	0.200	ND	96.2	70-130			
Benzo (a) anthracene	0.204	0.005	"	0.200	0.0008	101	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200	0.003	96.6	70-130			
Benzo (b) fluoranthene	0.225	0.020	"	0.200	0.003	111	70-130			
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	0.002	102	70-130			

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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 B411645 - EPA 3580

Matrix Spike (B411645-MS1)	Source: E409432-01			Prepared: 09/16/2024 Analyzed: 09/16/2024						
Benzo (k) fluoranthene	0.171	0.020	mg/kg	0.200	0.004	83.8	70-130			
Chrysene	0.195	0.020	"	0.200	ND	97.7	70-130			
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	0.002	112	70-130			
Fluoranthene	0.197	0.020	"	0.200	0.001	97.8	70-130			
Fluorene	0.205	0.020	"	0.200	0.0006	102	70-130			
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	0.002	105	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.194	0.020	"	0.200	0.0003	96.9	70-130			
Pyrene	0.202	0.020	"	0.200	0.001	100	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Matrix Spike Dup (B411645-MSD1)	Source: E409432-01			Prepared: 09/16/2024 Analyzed: 09/16/2024						
1-Methylnaphthalene	0.203	0.002	mg/kg	0.200	0.0005	101	70-130	3.05	20	
2-Methylnaphthalene	0.209	0.002	"	0.200	ND	104	70-130	7.22	20	
Acenaphthene	0.216	0.020	"	0.200	0.002	107	70-130	9.94	20	
Anthracene	0.204	0.020	"	0.200	ND	102	70-130	5.69	20	
Benzo (a) anthracene	0.204	0.005	"	0.200	0.0008	102	70-130	0.282	20	
Benzo (a) pyrene	0.213	0.020	"	0.200	0.003	105	70-130	7.87	20	
Benzo (b) fluoranthene	0.227	0.020	"	0.200	0.003	112	70-130	1.06	20	
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	0.002	99.9	70-130	1.91	20	
Benzo (k) fluoranthene	0.170	0.020	"	0.200	0.004	83.0	70-130	0.943	20	
Chrysene	0.208	0.020	"	0.200	ND	104	70-130	6.41	20	
Dibenz (a,h) anthracene	0.209	0.020	"	0.200	0.002	104	70-130	7.59	20	
Fluoranthene	0.210	0.020	"	0.200	0.001	104	70-130	6.41	20	

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 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 B411645 - EPA 3580

Matrix Spike Dup (B411645-MSD1)	Source: E409432-01			Prepared: 09/16/2024 Analyzed: 09/16/2024						
Fluorene	0.223	0.020	mg/kg	0.200	0.0006	111	70-130	8.43	20	
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200	0.002	110	70-130	3.82	20	
Naphthalene	0.205	0.002	"	0.200	ND	102	70-130	2.21	20	
Phenanthrene	0.205	0.020	"	0.200	0.0003	102	70-130	5.28	20	
Pyrene	0.204	0.020	"	0.200	0.001	101	70-130	1.05	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		93.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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

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 B4I2414 - Saturated Paste pH/EC

Duplicate (B4I2414-DUP1)		Source: E409415-20			Prepared: 09/24/2024 Analyzed: 09/25/2024					
pH	8.65		pH Units		8.66			0.116	25	

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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 2682514 - SW846 3060A										
BLANK (1205875501-BLK)					Prepared: 10/11/2024 Analyzed: 10/18/2024					
Hexavalent Chromium	ND	0.360	mg/kg				-			U
LCS (1205875502-BKS)					Prepared: 10/11/2024 Analyzed: 10/18/2024					
Hexavalent Chromium	3.83	0.381	mg/kg	3.81		101	80-120			
DUP (1205875503 D)					Source: 686306001 Prepared: 10/11/2024 Analyzed: 10/18/2024					
Hexavalent Chromium	ND	0.325	mg/kg dry		<0.130		0-50	N/A	50	U
MS (1205875504 S)					Source: 686306001 Prepared: 10/11/2024 Analyzed: 10/18/2024					
Hexavalent Chromium	1.90	0.370	mg/kg dry	3.70	<0.148	51.4	75-125			
DUP (1205875505 D)					Source: 686306002 Prepared: 10/11/2024 Analyzed: 10/18/2024					
Hexavalent Chromium	ND	0.401	mg/kg dry		<0.161		0-50	N/A	50	U
MS (1205875506 S)					Source: 686306002 Prepared: 10/11/2024 Analyzed: 10/18/2024					
Hexavalent Chromium	1.48	0.441	mg/kg dry	4.41	<0.176	33.5	75-125			
ILCS (1205875507-ILCS)					Prepared: 10/11/2024 Analyzed: 10/18/2024					
Hexavalent Chromium	7.13	0.345	mg/kg	6.95		103	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

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.

Origins Laboratory



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.