



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

October 02, 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 17, 2024. This project is associated with Origins project number E409486-01.

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-24@7'	E409486-01	Soil	September 17, 2024 13:54	09/17/2024 15:32
EX-SS-25@7'	E409486-02	Soil	September 17, 2024 14:04	09/17/2024 15:32

Origins Laboratory



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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

ORIGINS

ORIGINS WORK ORDER #

6400486

Page 1 of 1

L.A.BORATORY INC

Client: Eagle Environmental Consulting

Address: 8000 W 44th Ave

Wheat Ridge CO 80033

Telephone Number: 303-437-0471

Email Address: algarraffa@eagle-environment.com

Project Manager: Alfred Garraffa

Project Name: State #36-614

Project Number: ---

Collected By: EG

Invoice/billing info: Noble / Bill to Don


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

W=Water
 GW=Groundwater
 SW=Surface Water
 WW=Waste Water
 L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
1	EX-55-24e7	9/17/24	1355	3	UNP	X	X	
2	EX-55-25e7	9/17/24	1405	4	UNP	X	X	MDS needed
3						X	X	
4						X	X	
5						X	X	
6						X	X	
7						X	X	
8						X	X	
9						X	X	
10						X	X	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
<u>[Signature]</u>	9/17/24	1532	<u>[Signature]</u>	9/17/24	1532
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | origins@db.com | Temp Received - 2.4 Received On Ice? Yes No

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 Project: Noble - State #36-614

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E409486 Client: Eagle
 Checklist Completed by: EHD Client Project ID: ST 36-614
 Date/time completed: 9/17/12 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: 1124 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 7005

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
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 checked="" 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) EHD Date/Time Reviewed 9/17/12

Origins Laboratory



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

EX-SS-24@7'

9/17/2024 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409486-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B411735	09/17/2024	09/18/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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	B411736	09/17/2024	09/18/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	136 %	70-130	"	"	"	"	S-GC
Surrogate: Toluene-d8	100 %	70-130	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"	"	"

Origins Laboratory



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 Project: Noble - State #36-614

EX-SS-24@7'

9/17/2024 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409486-01 (Soil)

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411727	09/17/2024	09/17/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	105 %	60-130	"	"	"
Surrogate: Pyrene-d10	124 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.3 %	60-130	"	"	"

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EX-SS-24@7'

9/17/2024 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409486-01 (Soil)**

pH in Soil by 9045D

pH	8.49			pH Units	1	B412415	09/24/2024	09/26/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.03		0.263	mg/kg	10	B411740	09/17/2024	09/18/2024	
Barium	98.7		9.08	"	"	"	"	"	

Total Metals 7196A

Chromium, Hexavalent	0.269	0.244	0.5	mg/Kg	1	L774300	09/17/2024	09/24/2024	J
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Origins Laboratory



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EX-SS-25@7'

9/17/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409486-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411735	09/17/2024	09/18/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	85.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411736	09/17/2024	09/18/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	138 %		70-130			"	"	"	S-GC
Surrogate: Toluene-d8	99.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %		70-130			"	"	"	

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EX-SS-25@7'

9/17/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409486-02 (Soil)**

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B411727	09/17/2024	09/17/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	108 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %		60-130			"	"	"	

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 Project: Noble - State #36-614

EX-SS-25@7'

9/17/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409486-02 (Soil)

pH in Soil by 9045D

pH	8.52			pH Units	1	B412415	09/24/2024	09/26/2024	
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Table 915 metals by EPA 6020B

Arsenic	13.8		0.254	mg/kg	10	B411740	09/17/2024	09/18/2024	
Barium	105		8.78	"	"	"	"	"	

Total Metals 7196A

Chromium, Hexavalent	1.49	0.244	0.5	mg/Kg	1	L774300	09/17/2024	09/24/2024	
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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
Batch B411735 - EPA 3550B										
Blank (B411735-BLK1)										
					Prepared: 09/17/2024 Analyzed: 09/18/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.2	50-150			

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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 B411735 - EPA 3550B

LCS (B411735-BS1)

Prepared: 09/17/2024 Analyzed: 09/18/2024

Diesel (C10-C28)	1220	50.0	mg/kg	1000		122	70-130			
Residual Range Organics (C28-C40)	1310	200	"	1000		131	70-130			QM-11
Surrogate: o-Terphenyl	62		"	49.8		124	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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Batch B4I1735 - EPA 3550B

Matrix Spike (B4I1735-MS1)	Source: E409479-01			Prepared: 09/17/2024 Analyzed: 09/18/2024						
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130			
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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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
Batch B411735 - EPA 3550B										
Matrix Spike Dup (B411735-MSD1)					Source: E409479-01					Prepared: 09/17/2024 Analyzed: 09/18/2024
Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	70-130	2.67	35	
Residual Range Organics (C28-C40)	1220	200	"	1000	ND	122	70-130	1.59	35	
Surrogate: o-Terphenyl	54		"	49.8		108	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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Batch B411736 - EPA 5030 (soil)

Blank (B411736-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	111		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	107		70-130			

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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 B411736 - EPA 5030 (soil)

LCS (B411736-BS1)

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

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.116	0.00200	"	0.100		116	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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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
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Batch B411736 - EPA 5030 (soil)

Matrix Spike (B411736-MS1)	Source: E409482-01			Prepared: 09/17/2024 Analyzed: 09/17/2024						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.116	0.00200	"	0.100	ND	116	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130			
Toluene	0.111	0.00200	"	0.100	ND	111	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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
Batch B411736 - EPA 5030 (soil)										
Matrix Spike Dup (B411736-MSD1)			Source: E409482-01			Prepared: 09/17/2024 Analyzed: 09/17/2024				
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	2.34	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	2.04	20	
Benzene	0.114	0.00200	"	0.100	ND	114	70-130	1.63	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	3.50	20	
Naphthalene	0.114	0.00380	"	0.100	ND	114	70-130	4.70	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	2.07	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	2.41	20	
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.1	70-130	2.94	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		123	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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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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 B4I1740 - EPA 3050B

Blank (B4I1740-BLK1)

Prepared: 09/17/2024 Analyzed: 09/18/2024

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 (B4I1740-BS1)

Prepared: 09/17/2024 Analyzed: 09/18/2024

Arsenic	5.05	0.290	mg/kg	5.00		101	80-120			
Barium	502	10.0	"	500		100	80-120			
Cadmium	5.13	0.100	"	5.00		103	80-120			
Copper	52.3	10.0	"	50.0		105	80-120			
Lead	4.86	1.00	"	5.00		97.2	80-120			
Nickel	5.21	1.00	"	5.00		104	80-120			
Selenium	5.06	0.260	"	5.00		101	80-120			
Silver	5.45	0.100	"	5.00		109	80-120			
Zinc	50.6	37.0	"	50.0		101	80-120			

Matrix Spike (B4I1740-MS1)

Source: E409486-01

Prepared: 09/17/2024 Analyzed: 09/18/2024

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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 B411740 - EPA 3050B

Matrix Spike (B411740-MS1)		Source: E409486-01			Prepared: 09/17/2024 Analyzed: 09/18/2024					
Arsenic	7.28	0.277	mg/kg	4.78	3.03	89.0	75-125			
Barium	590	9.55	"	478	98.7	103	75-125			
Cadmium	4.91	0.0955	"	4.78	0.0918	101	75-125			
Copper	52.4	9.55	"	47.8	3.75	102	75-125			
Lead	8.28	0.955	"	4.78	3.59	98.3	75-125			
Nickel	8.38	0.955	"	4.78	3.63	99.6	75-125			
Selenium	4.64	0.248	"	4.78	0.0491	96.2	75-125			
Silver	5.04	0.0955	"	4.78	0.0554	104	75-125			
Zinc	62.0	35.3	"	47.8	15.2	98.1	75-125			

Matrix Spike Dup (B411740-MSD1)		Source: E409486-01			Prepared: 09/17/2024 Analyzed: 09/18/2024					
Arsenic	7.25	0.257	mg/kg	4.44	3.03	95.3	75-125	0.307	20	
Barium	566	8.87	"	444	98.7	105	75-125	4.12	20	
Cadmium	4.63	0.0887	"	4.44	0.0918	102	75-125	5.89	20	
Copper	49.9	8.87	"	44.4	3.75	104	75-125	4.93	20	
Lead	7.91	0.887	"	4.44	3.59	97.4	75-125	4.56	20	
Nickel	8.11	0.887	"	4.44	3.63	101	75-125	3.36	20	
Selenium	4.57	0.231	"	4.44	0.0491	102	75-125	1.47	20	
Silver	4.78	0.0887	"	4.44	0.0554	106	75-125	5.36	20	
Zinc	59.0	32.8	"	44.4	15.2	98.7	75-125	5.06	20	

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 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 B411727 - EPA 3580

Blank (B411727-BLK1)

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

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	240		ug/kg	200		118	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

LCS (B411727-BS1)

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

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200		99.8	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200		98.8	70-130			
Acenaphthene	0.209	0.020	"	0.200		104	70-130			
Anthracene	0.216	0.020	"	0.200		108	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 B411727 - EPA 3580

LCS (B411727-BS1)

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

Benzo (a) anthracene	0.193	0.005	mg/kg	0.200		96.5	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200		96.1	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.189	0.020	"	0.200		94.4	70-130			
Benzo (k) fluoranthene	0.161	0.020	"	0.200		80.6	70-130			
Chrysene	0.192	0.020	"	0.200		95.8	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200		108	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.7	70-130			
Fluorene	0.206	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200		100	70-130			
Naphthalene	0.210	0.002	"	0.200		105	70-130			
Phenanthrene	0.213	0.020	"	0.200		106	70-130			
Pyrene	0.199	0.020	"	0.200		99.3	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.6	60-130			
Surrogate: Anthracene-d10	230		"	200		114	60-130			
Surrogate: Pyrene-d10	190		"	200		95.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B411727-MS1)

Source: E409472-01

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

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.209	0.002	"	0.200	ND	105	70-130			
Acenaphthene	0.206	0.020	"	0.200	0.0006	103	70-130			
Anthracene	0.216	0.020	"	0.200	0.005	106	70-130			
Benzo (a) anthracene	0.216	0.005	"	0.200	0.003	107	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200	0.004	95.3	70-130			
Benzo (b) fluoranthene	0.221	0.020	"	0.200	0.005	108	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	0.006	95.4	70-130			

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 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 B411727 - EPA 3580

Matrix Spike (B411727-MS1)

Source: E409472-01

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

Benzo (k) fluoranthene	0.169	0.020	mg/kg	0.200	0.005	82.1	70-130			
Chrysene	0.199	0.020	"	0.200	0.004	97.4	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200	0.010	103	70-130			
Fluoranthene	0.202	0.020	"	0.200	0.003	99.5	70-130			
Fluorene	0.211	0.020	"	0.200	0.007	102	70-130			
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	0.009	95.9	70-130			
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130			
Phenanthrene	0.211	0.020	"	0.200	0.0005	105	70-130			
Pyrene	0.204	0.020	"	0.200	0.002	101	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	230		"	200		114	60-130			
Surrogate: Pyrene-d10	200		"	200		99.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B411727-MSD1)

Source: E409472-01

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

1-Methylnaphthalene	0.184	0.002	mg/kg	0.200	ND	92.2	70-130	11.9	20	
2-Methylnaphthalene	0.187	0.002	"	0.200	ND	93.3	70-130	11.4	20	
Acenaphthene	0.206	0.020	"	0.200	0.0006	103	70-130	0.242	20	
Anthracene	0.212	0.020	"	0.200	0.005	103	70-130	1.93	20	
Benzo (a) anthracene	0.203	0.005	"	0.200	0.003	100	70-130	6.25	20	
Benzo (a) pyrene	0.197	0.020	"	0.200	0.004	96.2	70-130	0.878	20	
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.005	103	70-130	5.06	20	
Benzo (g,h,i) perylene	0.187	0.020	"	0.200	0.006	90.7	70-130	4.89	20	
Benzo (k) fluoranthene	0.170	0.020	"	0.200	0.005	82.6	70-130	0.536	20	
Chrysene	0.201	0.020	"	0.200	0.004	98.2	70-130	0.745	20	
Dibenz (a,h) anthracene	0.232	0.020	"	0.200	0.010	111	70-130	7.74	20	
Fluoranthene	0.186	0.020	"	0.200	0.003	91.6	70-130	8.13	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 B411727 - EPA 3580

Matrix Spike Dup (B411727-MSD1)	Source: E409472-01			Prepared: 09/17/2024 Analyzed: 09/17/2024						
Fluorene	0.211	0.020	mg/kg	0.200	0.007	102	70-130	0.156	20	
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200	0.009	104	70-130	8.06	20	
Naphthalene	0.201	0.002	"	0.200	ND	100	70-130	5.38	20	
Phenanthrene	0.207	0.020	"	0.200	0.0005	103	70-130	1.76	20	
Pyrene	0.181	0.020	"	0.200	0.002	89.2	70-130	12.3	20	
Surrogate: Fluorene-d10	220		ug/kg	200		109	60-130			
Surrogate: Anthracene-d10	230		"	200		115	60-130			
Surrogate: Pyrene-d10	180		"	200		90.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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Alfred Garraffa
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 B4I2415 - Saturated Paste pH/EC

Duplicate (B4I2415-DUP1)

Source: E409451-06

Prepared: 09/24/2024 Analyzed: 09/26/2024

pH	8.46		pH Units		8.49			0.354	25	
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 Project Number: [none]
 Project: Noble - State #36-614

Total Metals 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L774300 -										
DUP (L 91771-DUP)		Source: E409486-01			Prepared: Analyzed: 09/24/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 91771-MS)		Source: E409486-01			Prepared: Analyzed: 09/24/2024					
Chromium, Hexavalent	31.8	2.5	mg/Kg	39.8	<1.22	80	75-125			
LCS (LCS)		Prepared: Analyzed: 09/24/2024								
Chromium, Hexavalent	6.79	0.5	mg/Kg	8		85	75-125			
LRB (LRB)		Prepared: Analyzed: 09/24/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.
- J Estimated Value. Analyte below reported quantitation limit.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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