



January 11, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Foos C #11-14

Project Number - [none]

Attached are your analytical results for Noble - Foos C #11-14 received by Origins Laboratory, Inc. January 03, 2024. This project is associated with Origins project number Y401055-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

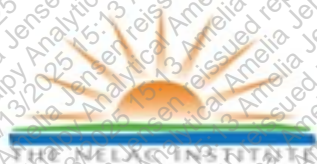
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645



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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y401055-01	Soil	January 3, 2024 14:27	01/03/2024 17:02
WH-SS-02@5'	Y401055-02	Soil	January 3, 2024 14:29	01/03/2024 17:02
WH-SS-03@5'	Y401055-03	Soil	January 3, 2024 14:31	01/03/2024 17:02
WH-SS-04@5'	Y401055-04	Soil	January 3, 2024 14:33	01/03/2024 17:02
WH-FS-01@6'	Y401055-05	Soil	January 3, 2024 14:35	01/03/2024 17:02
Background-01@3'	Y401055-06	Soil	January 3, 2024 14:20	01/03/2024 17:02

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Sample Receipt Checklist

Origins Work Order: 44101055 Client: Eagle
 Client Project ID: Foos C 11-14

Checklist Completed by: EHS Shipped Via: HD
 Date/time completed: 1/13/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply) Soil/Solid Water Other _____
 Cooler Number/Temperature: 1/2 °C 1 °C 1 °C (Describe) _____ °C
 Thermometer ID: 1004

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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) ⁽¹⁾ (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"/>	<input 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: AB (Project Manager) Date/Time Reviewed: 1-15-24

Origins Laboratory, Inc.



Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-SS-01@5'
1/3/2024 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.344		0.0993	mg/L	1	B4A0416	01/04/2024	01/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A0421	01/04/2024	01/06/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	102%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A0430	01/04/2024	01/05/2024	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

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WH-SS-01@5'
 1/3/2024 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			B4A04 30	01/04/2024	01/05/2024	
Surrogate: Toluene-d8	97.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	89.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.41		0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.70		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024	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

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Jordan A. Bynon, Project Manager



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WH-SS-01@5'
1/3/2024 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B4A0511	01/05/2024	01/06/2024	
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SAR by 20B Saturated Paste

SAR	2.17		0.0100	SAR	1	B4A0504	01/05/2024	01/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.660		0.00500	mmhos/cm	1	B4A0511	01/05/2024	01/06/2024	
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WH-SS-01@5'
1/3/2024 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.94		0.0889	mg/kg	10	B4A0434	01/05/2024	01/08/2024	
Barium	174		8.89	"	"	"	"	"	"
Cadmium	0.199		0.0889	"	"	"	"	"	"
Copper	12.4		8.89	"	"	"	"	"	"
Lead	13.6		0.889	"	"	"	"	"	"
Nickel	13.1		0.889	"	"	"	"	"	"
Selenium	0.124		0.0889	"	"	"	"	"	"
Silver	ND		0.0889	"	"	"	"	"	"
Zinc	54.8		8.89	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726887	01/03/2024	01/10/2024	
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 Project: Noble - Foos C #11-14

WH-SS-02@5'
1/3/2024 2:29:00PM

Origins Laboratory, Inc.
Y401055-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	0.397		0.0999	mg/L	1	B4A0507	01/05/2024	01/08/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	32.8		25.0	mg/kg	1	B4A0421	01/04/2024	01/06/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	99.0 %		50-150	"	"	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A0430	01/04/2024	01/05/2024	U
1,3,5-Trimethylbenzene	0.00324		0.00200	"	"	"	"	"	
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	0.412		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	116 %		70-130	"	"	"	"	"	



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 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-SS-02@5'
1/3/2024 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-02 (Soil)

GBTEX+TMBs by 8260D


Surrogate: Toluene-d8	97.5 %		70-130			B4A04 30	01/04/2024	01/05/2024	
Surrogate: 4-Bromofluorobenzene	90.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.12		0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.86		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.004		0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024	
2-Methylnaphthalene	0.003		0.002	"	"	"	"	"	
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

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 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-SS-02@5'
1/3/2024 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.0%		60-130						
Surrogate: Anthracene-d10	97.2%		60-130						
Surrogate: Pyrene-d10	97.9%		60-130						
Surrogate: Benzo (a) pyrene-d12	99.5%		60-130						

pH in Soil by 9045D

pH	8.34			pH Units	1	B4A0511	01/05/2024	01/06/2024	
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SAR by 20B Saturated Paste

SAR	2.46		0.0100	SAR	1	B4A0504	01/05/2024	01/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.619		0.00500	mmhos/cm	1	B4A0511	01/05/2024	01/06/2024	
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Table 915 metals by EPA 6020B

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WH-SS-02@5'
1/3/2024 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.66		0.0851	mg/kg	10	B4A0434	01/05/2024	01/08/2024	
Barium	148		8.51	"	"	"	"	"	"
Cadmium	0.203		0.0851	"	"	"	"	"	"
Copper	11.7		8.51	"	"	"	"	"	"
Lead	12.1		0.851	"	"	"	"	"	"
Nickel	12.6		0.851	"	"	"	"	"	"
Selenium	0.112		0.0851	"	"	"	"	"	"
Silver	ND		0.0851	"	"	"	"	"	"
Zinc	51.6		8.51	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726887	01/03/2024	01/10/2024	
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Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-SS-03@5'
1/3/2024 2:31:00PM

Origins Laboratory, Inc.
Y401055-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	0.311		0.100	mg/L	1	B4A0507	01/05/2024	01/08/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A0421	01/04/2024	01/06/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	102%		50-150	"	"	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A0430	01/04/2024	01/05/2024	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	0.383		0.200	"	"	"	"	"	

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Jordan A. Bynon, Project Manager

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Andrew Newberry
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WH-SS-03@5'
1/3/2024 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-03 (Soil)

GBTEX+TMBs by 8260D


Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			B4A04 30	01/04/2024	01/05/2024	
Surrogate: Toluene-d8	97.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.56		0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.05		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A0506	01/05/2024	01/05/2024	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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-SS-03@5'
1/3/2024 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-03 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D


pH	8.35			pH Units	1	B4A0511	01/05/2024	01/06/2024	
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SAR by 20B Saturated Paste

SAR	2.13		0.0100	SAR	1	B4A0504	01/05/2024	01/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.412		0.00500	mmhos/cm	1	B4A0511	01/05/2024	01/06/2024	
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Origins Laboratory, Inc.


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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-SS-03@5'
1/3/2024 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.13		0.0855	mg/kg	10	B4A0434	01/05/2024	01/08/2024	
Barium	154		8.55	"	"	"	"	"	"
Cadmium	0.187		0.0855	"	"	"	"	"	"
Copper	11.7		8.55	"	"	"	"	"	"
Lead	10.9		0.855	"	"	"	"	"	"
Nickel	13.0		0.855	"	"	"	"	"	"
Selenium	0.100		0.0855	"	"	"	"	"	"
Silver	ND		0.0855	"	"	"	"	"	"
Zinc	52.5		8.55	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726887	01/03/2024	01/10/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-SS-04@5'
1/3/2024 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.450	0.101	mg/L	1	B4A0507	01/05/2024	01/08/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	342	25.0	mg/kg	1	B4A0421	01/04/2024	01/06/2024	
Residual Range Organics (C28-C40)	322	100	"	"	"	"	"	

Surrogate: o-Terphenyl	110 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0430	01/04/2024	01/05/2024	U
1,3,5-Trimethylbenzene	0.0585	0.00200	"	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.0525	0.00200	"	"	"	"	"	"
Gasoline Range Hydrocarbons	8.71	0.200	"	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-SS-04@5'
1/3/2024 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %		70-130			B4A04 30	01/04/2024	01/05/2024	
Surrogate: 4-Bromofluorobenzene	86.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.07		0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.79		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.325		0.002	mg/kg	1	B4A0506	"	01/05/2024	
2-Methylnaphthalene	0.507		0.002	"	"	"	"	"	
Acenaphthene	0.069		0.020	"	"	"	"	"	
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	0.051		0.020	"	"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-SS-04@5'
1/3/2024 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-04 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Naphthalene	0.050		0.002	"	"	"	"	"	"
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	77.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.24			pH Units	1	B4A0512	01/05/2024	01/06/2024	
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SAR by 20B Saturated Paste

SAR	2.38		0.0100	SAR	1	B4A0505	01/05/2024	01/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.587		0.00500	mmhos/cm	1	B4A0512	01/05/2024	01/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.22		0.0978	mg/kg	10	B4A0434	01/05/2024	01/08/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-SS-04@5'
1/3/2024 2:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-04 (Soil)

Table 915 metals by EPA 6020B

Barium	146		9.78	mg/kg	10	B4A0434	01/05/2024	01/08/2024	
Cadmium	0.227		0.0978	"	"	"	"	"	"
Copper	16.1		9.78	"	"	"	"	"	"
Lead	16.9		0.978	"	"	"	"	"	"
Nickel	15.9		0.978	"	"	"	"	"	"
Selenium	0.126		0.0978	"	"	"	"	"	"
Silver	ND		0.0978	"	"	"	"	"	"
Zinc	68.5		9.78	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726887	01/03/2024	01/10/2024	
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Origins Laboratory, Inc.


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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-FS-01@6'
1/3/2024 2:35:00PM

Origins Laboratory, Inc.
Y401055-05 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Boron (DTPA Sorbitol)

Boron	0.474		0.101	mg/L	1	B4A0507	01/05/2024	01/08/2024	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	75.1		25.0	mg/kg	1	B4A0421	01/04/2024	01/06/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	106 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A0430	01/04/2024	01/05/2024	U
1,3,5-Trimethylbenzene	0.0130		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00262		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.13		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	"	
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Origins Laboratory, Inc.


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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-FS-01@6'
1/3/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B4A04 30	01/04/2024	01/05/2024	
Surrogate: 4-Bromofluorobenzene	86.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.76		0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.54		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.016		0.002	mg/kg	1	B4A0506	"	01/05/2024	
2-Methylnaphthalene	0.009		0.002	"	"	"	"	"	
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

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-FS-01@6'
1/3/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-05 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4A0506	01/05/2024	01/05/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.42			pH Units	1	B4A0512	01/05/2024	01/06/2024	
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SAR by 20B Saturated Paste

SAR	2.42		0.0100	SAR	1	B4A0505	01/05/2024	01/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.490		0.00500	mmhos/cm	1	B4A0512	01/05/2024	01/06/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

WH-FS-01@6'
1/3/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.69		0.0863	mg/kg	10	B4A0434	01/05/2024	01/08/2024	
Barium	166		8.63	"	"	"	"	"	"
Cadmium	0.188		0.0863	"	"	"	"	"	"
Copper	11.8		8.63	"	"	"	"	"	"
Lead	13.3		0.863	"	"	"	"	"	"
Nickel	12.6		0.863	"	"	"	"	"	"
Selenium	0.104		0.0863	"	"	"	"	"	"
Silver	ND		0.0863	"	"	"	"	"	"
Zinc	52.6		8.63	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726890	01/03/2024	01/10/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

Background-01@3'
1/3/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.96		0.0991	mg/L	1	B4A0507	01/05/2024	01/08/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.64		0.499	meq/L	10	[CALC]	01/05/2024	01/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.24		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.45			pH Units	1	B4A0512	01/05/2024	01/06/2024	
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SAR by 20B Saturated Paste

SAR	5.79		0.0100	SAR	1	B4A0505	01/05/2024	01/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.927		0.00500	mmhos/cm	1	B4A0512	01/05/2024	01/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.86		0.0917	mg/kg	10	B4A0434	01/05/2024	01/08/2024	
Barium	129		9.17	"	"	"	"	"	
Cadmium	0.313		0.0917	"	"	"	"	"	
Copper	13.9		9.17	"	"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

Background-01@3'
1/3/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401055-06 (Soil)

Table 915 metals by EPA 6020B

Lead	93.8		0.917	mg/kg	10	B4A0434	01/05/2024	01/08/2024	
Nickel	12.8		0.917	"	"	"	"	"	"
Selenium	0.196		0.0917	"	"	"	"	"	"
Silver	ND		0.0917	"	"	"	"	"	"
Zinc	70.2		9.17	"	"	"	"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0421 - EPA 3550B

Blank (B4A0421-BLK1)

Prepared: 01/04/2024 Analyzed: 01/06/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		105	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0421 - EPA 3550B

LCS (B4A0421-BS1)

Prepared: 01/04/2024 Analyzed: 01/06/2024

Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Residual Range Organics (C28-C40)	775	200	"	1000		77.5	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0421 - EPA 3550B

Matrix Spike (B4A0421-MS1)

Source: Y401037-01

Prepared: 01/04/2024 Analyzed: 01/06/2024

Diesel (C10-C28)	2600	50.0	mg/kg	1000	1120	148	70-130			QM-07
Residual Range Organics (C28-C40)	1620	200	"	1000	526	109	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0421 - EPA 3550B

Matrix Spike Dup (B4A0421-MSD1)

Source: Y401037-01

Prepared: 01/04/2024 Analyzed: 01/06/2024

Diesel (C10-C28)	2390	50.0	mg/kg	1000	1120	126	70-130	8.71	35	
Residual Range Organics (C28-C40)	1540	200	"	1000	526	101	70-130	4.97	35	
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0430 - EPA 5030 (soil)

Blank (B4A0430-BLK1)

Prepared: 01/04/2024 Analyzed: 01/05/2024

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	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.6	70-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0430 - EPA 5030 (soil)

LCS (B4A0430-BS1)

Prepared: 01/04/2024 Analyzed: 01/05/2024

1,2,4-Trimethylbenzene	0.0961	0.00200	mg/kg	0.100		96.1	70-130			
1,3,5-Trimethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
Benzene	0.0978	0.00200	"	0.100		97.8	70-130			
Ethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
Naphthalene	0.0885	0.00380	"	0.100		88.5	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.0920	0.00200	"	0.100		92.0	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.8	70-130			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0430 - EPA 5030 (soil)

Matrix Spike (B4A0430-MS1)

Source: Y401053-01

Prepared: 01/04/2024 Analyzed: 01/05/2024

1,2,4-Trimethylbenzene	0.0852	0.00200	mg/kg	0.100	ND	85.2	70-130			
1,3,5-Trimethylbenzene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
Benzene	0.0926	0.00200	"	0.100	ND	92.6	70-130			
Ethylbenzene	0.0854	0.00200	"	0.100	ND	85.4	70-130			
Naphthalene	0.0928	0.00380	"	0.100	ND	92.8	70-130			
Toluene	0.0937	0.00200	"	0.100	ND	93.7	70-130			
o-Xylene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
m,p-Xylene	0.172	0.00400	"	0.200	ND	85.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.5	70-130			

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0430 - EPA 5030 (soil)

Matrix Spike Dup (B4A0430-MSD1)

Source: Y401053-01

Prepared: 01/04/2024 Analyzed: 01/05/2024

1,2,4-Trimethylbenzene	0.0881	0.00200	mg/kg	0.100	ND	88.1	70-130	3.42	20	
1,3,5-Trimethylbenzene	0.0861	0.00200	"	0.100	ND	86.1	70-130	1.10	20	
Benzene	0.0947	0.00200	"	0.100	ND	94.7	70-130	2.28	20	
Ethylbenzene	0.0860	0.00200	"	0.100	ND	86.0	70-130	0.770	20	
Naphthalene	0.0969	0.00380	"	0.100	ND	96.9	70-130	4.32	20	
Toluene	0.0956	0.00200	"	0.100	ND	95.6	70-130	2.09	20	
o-Xylene	0.0851	0.00200	"	0.100	ND	85.1	70-130	1.37	20	
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.5	70-130	0.708	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.9	70-130			

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0434 - EPA 3050B

Blank (B4A0434-BLK1)

Prepared: 01/05/2024 Analyzed: 01/08/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A0434-BS1)

Prepared: 01/05/2024 Analyzed: 01/08/2024

Arsenic	5.17	0.0100	mg/kg	5.00		103	80-120			
Barium	498	1.00	"	500		99.6	80-120			
Cadmium	5.08	0.0100	"	5.00		102	80-120			
Copper	50.6	1.00	"	50.0		101	80-120			
Lead	5.10	0.100	"	5.00		102	80-120			
Nickel	5.32	0.100	"	5.00		106	80-120			
Selenium	4.77	0.0100	"	5.00		95.3	80-120			
Silver	5.14	0.0100	"	5.00		103	80-120			
Zinc	50.3	1.00	"	50.0		101	80-120			

Matrix Spike (B4A0434-MS1)

Source: Y401053-01

Prepared: 01/05/2024 Analyzed: 01/08/2024

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 Project Number: [none]
 Project: Noble - Foos C #11-14

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0434 - EPA 3050B

Matrix Spike (B4A0434-MS1)

Source: Y401053-01

Prepared: 01/05/2024 Analyzed: 01/08/2024

Arsenic	7.91	0.0949	mg/kg	4.75	3.43	94.5	75-125			
Barium	595	9.49	"	475	112	102	75-125			
Cadmium	4.99	0.0949	"	4.75	0.160	102	75-125			
Copper	52.2	9.49	"	47.5	9.03	90.9	75-125			
Lead	13.4	0.949	"	4.75	9.09	90.0	75-125			
Nickel	14.5	0.949	"	4.75	11.3	68.2	75-125			QM-07
Selenium	4.70	0.0949	"	4.75	0.0818	97.2	75-125			
Silver	4.97	0.0949	"	4.75	0.0278	104	75-125			
Zinc	86.0	9.49	"	47.5	47.0	82.1	75-125			

Matrix Spike Dup (B4A0434-MSD1)

Source: Y401053-01

Prepared: 01/05/2024 Analyzed: 01/08/2024

Arsenic	8.35	0.0988	mg/kg	4.94	3.43	99.7	75-125	5.43	20	
Barium	624	9.88	"	494	112	104	75-125	4.72	20	
Cadmium	5.21	0.0988	"	4.94	0.160	102	75-125	4.35	20	
Copper	54.5	9.88	"	49.4	9.03	92.0	75-125	4.28	20	
Lead	13.8	0.988	"	4.94	9.09	95.5	75-125	3.30	20	
Nickel	15.3	0.988	"	4.94	11.3	82.5	75-125	5.61	20	QM-07
Selenium	5.01	0.0988	"	4.94	0.0818	99.8	75-125	6.52	20	
Silver	5.23	0.0988	"	4.94	0.0278	105	75-125	5.07	20	
Zinc	90.4	9.88	"	49.4	47.0	87.7	75-125	4.96	20	

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0506 - EPA 3580

Prepared: 01/05/2024 Analyzed: 01/05/2024

Blank (B4A0506-BLK1)

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	200		ug/kg	200		97.5	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

LCS (B4A0506-BS1)

Prepared: 01/05/2024 Analyzed: 01/05/2024

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.5	70-130			
Acenaphthene	0.182	0.020	"	0.200		91.0	70-130			
Anthracene	0.172	0.020	"	0.200		86.0	70-130			

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Jordan A. Bynon, Project Manager



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0506 - EPA 3580

LCS (B4A0506-BS1)

Prepared: 01/05/2024 Analyzed: 01/05/2024

Benzo (a) anthracene	0.194	0.005	mg/kg	0.200		97.0	70-130			
Benzo (a) pyrene	0.231	0.020	"	0.200		116	70-130			
Benzo (b) fluoranthene	0.201	0.020	"	0.200		101	70-130			
Benzo (g,h,i) perylene	0.212	0.020	"	0.200		106	70-130			
Benzo (k) fluoranthene	0.176	0.020	"	0.200		88.1	70-130			
Chrysene	0.189	0.020	"	0.200		94.6	70-130			
Dibenz (a,h) anthracene	0.203	0.020	"	0.200		101	70-130			
Fluoranthene	0.184	0.020	"	0.200		91.8	70-130			
Fluorene	0.182	0.020	"	0.200		90.8	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		91.1	70-130			
Naphthalene	0.196	0.002	"	0.200		97.8	70-130			
Phenanthrene	0.184	0.020	"	0.200		92.2	70-130			
Pyrene	0.193	0.020	"	0.200		96.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	200		"	200		99.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4A0506-MS1)

Source: Y401051-01

Prepared: 01/05/2024 Analyzed: 01/05/2024

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	0.0006	104	70-130			
2-Methylnaphthalene	0.206	0.002	"	0.200	0.001	103	70-130			
Acenaphthene	0.188	0.020	"	0.200	ND	93.8	70-130			
Anthracene	0.179	0.020	"	0.200	ND	89.6	70-130			
Benzo (a) anthracene	0.199	0.005	"	0.200	0.001	98.8	70-130			
Benzo (a) pyrene	0.234	0.020	"	0.200	ND	117	70-130			
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.002	106	70-130			
Benzo (g,h,i) perylene	0.214	0.020	"	0.200	ND	107	70-130			

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Jordan A. Bynon, Project Manager

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0506 - EPA 3580

Matrix Spike (B4A0506-MS1)

Source: Y401051-01

Prepared: 01/05/2024 Analyzed: 01/05/2024

Benzo (k) fluoranthene	0.188	0.020	mg/kg	0.200	ND	94.0	70-130			
Chrysene	0.196	0.020	"	0.200	0.0009	97.7	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	98.2	70-130			
Fluoranthene	0.190	0.020	"	0.200	0.0007	94.8	70-130			
Fluorene	0.188	0.020	"	0.200	ND	93.9	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200	0.002	94.6	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	95.0	70-130			
Pyrene	0.198	0.020	"	0.200	ND	99.1	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	200		"	200		99.0	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B4A0506-MSD1)

Source: Y401051-01

Prepared: 01/05/2024 Analyzed: 01/05/2024

1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	0.0006	107	70-130	2.65	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	0.001	105	70-130	2.10	20	
Acenaphthene	0.193	0.020	"	0.200	ND	96.6	70-130	2.92	20	
Anthracene	0.184	0.020	"	0.200	ND	91.8	70-130	2.40	20	
Benzo (a) anthracene	0.206	0.005	"	0.200	0.001	103	70-130	3.72	20	
Benzo (a) pyrene	0.222	0.020	"	0.200	ND	111	70-130	5.16	20	
Benzo (b) fluoranthene	0.209	0.020	"	0.200	0.002	103	70-130	2.36	20	
Benzo (g,h,i) perylene	0.217	0.020	"	0.200	ND	108	70-130	1.23	20	
Benzo (k) fluoranthene	0.209	0.020	"	0.200	ND	105	70-130	10.7	20	
Chrysene	0.201	0.020	"	0.200	0.0009	100	70-130	2.35	20	
Dibenz (a,h) anthracene	0.219	0.020	"	0.200	ND	109	70-130	10.9	20	
Fluoranthene	0.193	0.020	"	0.200	0.0007	96.2	70-130	1.39	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0506 - EPA 3580

Matrix Spike Dup (B4A0506-MSD1)

Source: Y401051-01

Prepared: 01/05/2024 Analyzed: 01/05/2024

Fluorene	0.190	0.020	mg/kg	0.200	ND	94.8	70-130	1.01	20	
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	0.002	93.0	70-130	1.72	20	
Naphthalene	0.207	0.002	"	0.200	ND	104	70-130	2.94	20	
Phenanthrene	0.199	0.020	"	0.200	ND	99.7	70-130	4.85	20	
Pyrene	0.203	0.020	"	0.200	ND	102	70-130	2.53	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.3	60-130			
Surrogate: Anthracene-d10	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0416 - DTPA Sorbitol Preparation

Blank (B4A0416-BLK1) Prepared: 01/04/2024 Analyzed: 01/05/2024

Boron ND 0.100 mg/L

Duplicate (B4A0416-DUP1) Source: Y401044-01 Prepared: 01/04/2024 Analyzed: 01/05/2024

Boron 0.175 0.0992 mg/L 0.164 6.08 50

Batch B4A0504 - Saturated Paste Metals

Blank (B4A0504-BLK1) Prepared: 01/05/2024 Analyzed: 01/08/2024

SAR ND 0.0100 SAR

Calcium PPM ND 1.00 mg/L

Magnesium PPM ND 1.00 "

Sodium PPM ND 1.00 "

Duplicate (B4A0504-DUP1) Source: Y401053-01 Prepared: 01/05/2024 Analyzed: 01/08/2024

SAR ND 0.0100 SAR 2.16 200

Calcium PPM 18.6 10.0 mg/L 19.0 2.02 50

Magnesium PPM 5.15 10.0 " 5.27 2.30 50

Sodium PPM 40.9 10.0 " 41.2 0.829 50

Batch B4A0505 - Saturated Paste Metals

Blank (B4A0505-BLK1) Prepared: 01/05/2024 Analyzed: 01/08/2024

SAR ND 0.0100 SAR

Calcium PPM ND 1.00 mg/L

Magnesium PPM ND 1.00 "

Sodium PPM ND 1.00 "

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0505 - Saturated Paste Metals

Duplicate (B4A0505-DUP1)		Source: Y401055-04			Prepared: 01/05/2024 Analyzed: 01/08/2024		
Calcium PPM	42.6	10.0	mg/L	41.4		2.62	50
SAR	ND	0.0100	SAR	2.38			200
Magnesium PPM	8.58	10.0	mg/L	8.12		5.51	50
Sodium PPM	67.4	10.0	"	64.1		5.04	50

Batch B4A0507 - DTPA Sorbitol Preparation

Blank (B4A0507-BLK1)		Source: Y401055-02			Prepared: 01/05/2024 Analyzed: 01/08/2024		
Boron	ND	0.100	mg/L				
Duplicate (B4A0507-DUP1)		Source: Y401055-02			Prepared: 01/05/2024 Analyzed: 01/08/2024		
Boron	0.474	0.0998	mg/L	0.397		17.7	50

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Andrew Newberry
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 Project: Noble - Foos C #11-14

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A0511 - Saturated Paste pH/EC

Blank (B4A0511-BLK1)

Prepared: 01/05/2024 Analyzed: 01/06/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4A0511-DUP1)

Source: Y401053-01

Prepared: 01/05/2024 Analyzed: 01/06/2024

Specific Conductance (EC) 0.324 0.00500 mmhos/cm 0.283 13.5 25

pH 8.39 pH Units 8.41 0.238 25

Batch B4A0512 - Saturated Paste pH/EC

Blank (B4A0512-BLK1)

Prepared: 01/05/2024 Analyzed: 01/06/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4A0512-DUP1)

Source: Y401055-04

Prepared: 01/05/2024 Analyzed: 01/06/2024

pH 8.04 pH Units 8.24 2.46 25

Specific Conductance (EC) 0.627 0.00500 mmhos/cm 0.587 6.59 25

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L726890 -

DUP (L 86102-DUP)

Source: 86102

Prepared: Analyzed: 01/10/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 86102-MS)

Source: 86102

Prepared: Analyzed: 01/10/2024

Chromium, Hexavalent	29.7	2.5	mg/Kg	38.8	<1.22	77	75-125		
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LCS (LCS)

Prepared: Analyzed: 01/10/2024

Chromium, Hexavalent	6.11	0.5	mg/Kg	8		76	75-125		
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LRB (LRB)

Prepared: Analyzed: 01/10/2024

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Foos C #11-14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L726887 -

DUP (L 86083-DUP)

Source: 86083

Prepared: Analyzed: 01/10/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 86083-MS)

Source: 86083

Prepared: Analyzed: 01/10/2024

Chromium, Hexavalent	31	2.5	mg/Kg	39.5	<1.22	78	75-125		
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LCS (LCS)

Prepared: Analyzed: 01/10/2024

Chromium, Hexavalent	6.11	0.5	mg/Kg	8	76	75-125			
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LRB (LRB)

Prepared: Analyzed: 01/10/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		-				
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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Foos C #11-14

Notes and Definitions

U Sample is Non-Detect.

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.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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