



January 31, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sater CC #18-17D

Project Number - [none]

Attached are your analytical results for Noble - Sater CC #18-17D received by Origins Laboratory, Inc. January 19, 2024. This project is associated with Origins project number Y401488-01.

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 - Sater CC #18-17D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-06@4	Y401488-01	Soil	January 19, 2024 14:15	01/19/2024 16:32

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

ORIGINS

LABORATORY, INC

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

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


Origins Work Order: 401488 Client: Eagle
 Checklist Completed by: EHS Client Project ID: Sater CC 18-17D
 Date/time completed: 1/19/24 Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix(s) Received: (Check all that apply): 0 Soil/Solid 0 Water 0 Other: _____
 Cooler Number/Temperature: 1, 4.4 °C / _____ °C / _____ °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) / (preservation is not confirmed for subcooled analysis 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 (Project Manager) 

Date/Time Reviewed 1/23/24

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 - Sater CC #18-17D

FL-SS-06@4'
1/19/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401488-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B4A2310	01/23/2024	01/24/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A2301	01/23/2024	01/24/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	104%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2229	01/22/2024	01/22/2024	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

Origins Laboratory, Inc.



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Sater CC #18-17D

FL-SS-06@4
 1/19/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401488-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B4A22 29	01/22/2024	01/22/2024	
Surrogate: Toluene-d8	99.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	01/22/2024	01/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A2222	01/22/2024	01/24/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.005		0.005	"	"	"	"	"	
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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 1/19/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401488-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4A2222	01/22/2024	01/24/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	105 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.72			pH Units	1	B4A2213	01/22/2024	01/23/2024	
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SAR by 20B Saturated Paste

SAR	0.286		0.0100	SAR	1	B4A2207	01/22/2024	01/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0839		0.00500	mmhos/cm	1	B4A2213	01/22/2024	01/23/2024	
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Table 915 metals by EPA 6020B

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FL-SS-06@4'

1/19/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401488-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.56		0.0860	mg/kg	10	B4A1942	01/23/2024	01/25/2024	
Barium	36.4		8.60	"	"	"	"	"	
Cadmium	ND		0.0860	"	"	"	"	"	
Copper	ND		8.60	"	"	"	"	"	
Lead	3.24		0.860	"	"	"	"	"	
Nickel	3.10		0.860	"	"	"	"	"	
Selenium	ND		0.0860	"	"	"	"	"	
Silver	ND		0.0860	"	"	"	"	"	
Zinc	12.3		8.60	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729225	01/19/2024	01/26/2024	
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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 B4A2229 - EPA 5030 (soil)

Blank (B4A2229-BLK1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

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	0.12		"	0.125		99.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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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 B4A2229 - EPA 5030 (soil)

LCS (B4A2229-BS1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	0.119	0.00200	mg/kg	0.100		119	70-130			
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.116	0.00200	"	0.100		116	70-130			
m,p-Xylene	0.225	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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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 B4A2229 - EPA 5030 (soil)

Matrix Spike (B4A2229-MS1)

Source: Y401403-01

Prepared: 01/22/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	0.119	0.00200	mg/kg	0.100	ND	119	70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Naphthalene	0.115	0.00380	"	0.100	ND	115	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.116	0.00200	"	0.100	ND	116	70-130			
m,p-Xylene	0.225	0.00400	"	0.200	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 - Sater CC #18-17D

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 B4A2229 - EPA 5030 (soil)

Matrix Spike Dup (B4A2229-MSD1)

Source: Y401403-01

Prepared: 01/22/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	ND	116	70-130	2.04	20	
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130	2.47	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	0.421	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	1.65	20	
Naphthalene	0.119	0.00380	"	0.100	ND	119	70-130	3.47	20	
Toluene	0.102	0.00200	"	0.100	ND	102	70-130	1.98	20	
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130	1.88	20	
m,p-Xylene	0.220	0.00400	"	0.200	ND	110	70-130	2.12	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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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 B4A2301 - EPA 3550B

Blank (B4A2301-BLK1)

Prepared: 01/23/2024 Analyzed: 01/24/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

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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 B4A2301 - EPA 3550B

LCS (B4A2301-BS1)

Prepared: 01/23/2024 Analyzed: 01/24/2024

Diesel (C10-C28)	970	50.0	mg/kg	1000		97.0	70-130			
Residual Range Organics (C28-C40)	890	200	"	1000		89.0	70-130			
Surrogate: o-Terphenyl	61		"	49.8		124	50-150			

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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 B4A2301 - EPA 3550B

Matrix Spike (B4A2301-MS1)

Source: Y401417-01

Prepared: 01/23/2024 Analyzed: 01/24/2024

Diesel (C10-C28)	1150	50.0	mg/kg	1000	ND	115	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

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Andrew Newberry
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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 B4A2301 - EPA 3550B

Matrix Spike Dup (B4A2301-MSD1)

Source: Y401417-01

Prepared: 01/23/2024 Analyzed: 01/24/2024

Diesel (C10-C28)	981	50.0	mg/kg	1000	ND	98.1	70-130	15.9	35	
Residual Range Organics (C28-C40)	888	200	"	1000	ND	88.8	70-130	16.3	35	
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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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 B4A1942 - EPA 3050B

Blank (B4A1942-BLK1)

Prepared: 01/23/2024 Analyzed: 01/25/2024

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 (B4A1942-BS1)

Prepared: 01/23/2024 Analyzed: 01/25/2024

Arsenic	5.27	0.0100	mg/kg	5.00		105	80-120			
Barium	542	1.00	"	500		108	80-120			
Cadmium	5.21	0.0100	"	5.00		104	80-120			
Copper	52.5	1.00	"	50.0		105	80-120			
Lead	5.33	0.100	"	5.00		107	80-120			
Nickel	5.50	0.100	"	5.00		110	80-120			
Selenium	4.86	0.0100	"	5.00		97.3	80-120			
Silver	5.83	0.0100	"	5.00		117	80-120			
Zinc	54.7	1.00	"	50.0		109	80-120			

Matrix Spike (B4A1942-MS1)

Source: Y401488-01

Prepared: 01/23/2024 Analyzed: 01/25/2024

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 - Sater CC #18-17D

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 B4A1942 - EPA 3050B

Matrix Spike (B4A1942-MS1)

Source: Y401488-01

Prepared: 01/23/2024 Analyzed: 01/25/2024

Arsenic	6.10	0.0904	mg/kg	4.52	1.56	100	75-125			
Barium	535	9.04	"	452	36.4	110	75-125			
Cadmium	4.79	0.0904	"	4.52	0.0318	105	75-125			
Copper	49.4	9.04	"	45.2	2.62	103	75-125			
Lead	8.00	0.904	"	4.52	3.24	105	75-125			
Nickel	7.82	0.904	"	4.52	3.10	104	75-125			
Selenium	4.42	0.0904	"	4.52	0.0430	96.8	75-125			
Silver	4.75	0.0904	"	4.52	0.0103	105	75-125			
Zinc	58.8	9.04	"	45.2	12.3	103	75-125			

Matrix Spike Dup (B4A1942-MSD1)

Source: Y401488-01

Prepared: 01/23/2024 Analyzed: 01/25/2024

Arsenic	5.85	0.0858	mg/kg	4.29	1.56	100	75-125	4.14	20	
Barium	515	8.58	"	429	36.4	112	75-125	3.77	20	
Cadmium	4.55	0.0858	"	4.29	0.0318	105	75-125	5.24	20	
Copper	46.3	8.58	"	42.9	2.62	102	75-125	6.29	20	
Lead	7.52	0.858	"	4.29	3.24	99.9	75-125	6.23	20	
Nickel	7.61	0.858	"	4.29	3.10	105	75-125	2.71	20	
Selenium	4.16	0.0858	"	4.29	0.0430	95.9	75-125	6.16	20	
Silver	4.40	0.0858	"	4.29	0.0103	102	75-125	7.65	20	
Zinc	56.5	8.58	"	42.9	12.3	103	75-125	3.93	20	

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 - Sater CC #18-17D

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 B4A2222 - EPA 3580

Blank (B4A2222-BLK1)

Prepared: 01/22/2024 Analyzed: 01/24/2024

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	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

LCS (B4A2222-BS1)

Prepared: 01/22/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200		89.2	70-130			
2-Methylnaphthalene	0.179	0.002	"	0.200		89.6	70-130			
Acenaphthene	0.161	0.020	"	0.200		80.7	70-130			
Anthracene	0.177	0.020	"	0.200		88.4	70-130			

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 - Sater CC #18-17D

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 B4A2222 - EPA 3580

LCS (B4A2222-BS1)

Prepared: 01/22/2024 Analyzed: 01/24/2024

Benzo (a) anthracene	0.162	0.005	mg/kg	0.200		81.1	70-130			
Benzo (a) pyrene	0.193	0.020	"	0.200		96.4	70-130			
Benzo (b) fluoranthene	0.176	0.020	"	0.200		88.0	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200		93.9	70-130			
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.6	70-130			
Chrysene	0.174	0.020	"	0.200		86.8	70-130			
Dibenz (a,h) anthracene	0.186	0.020	"	0.200		93.2	70-130			
Fluoranthene	0.157	0.020	"	0.200		78.7	70-130			
Fluorene	0.159	0.020	"	0.200		79.6	70-130			
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200		88.2	70-130			
Naphthalene	0.169	0.002	"	0.200		84.6	70-130			
Phenanthrene	0.177	0.020	"	0.200		88.6	70-130			
Pyrene	0.161	0.020	"	0.200		80.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		92.6	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130			

Matrix Spike (B4A2222-MS1)

Source: Y401448-01

Prepared: 01/22/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0005	92.6	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200	ND	93.4	70-130			
Acenaphthene	0.169	0.020	"	0.200	0.0002	84.4	70-130			
Anthracene	0.185	0.020	"	0.200	0.0005	92.3	70-130			
Benzo (a) anthracene	0.166	0.005	"	0.200	0.002	81.6	70-130			
Benzo (a) pyrene	0.198	0.020	"	0.200	0.001	98.2	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.001	99.6	70-130			
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	0.001	90.8	70-130			

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 - Sater CC #18-17D

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 B4A2222 - EPA 3580

Matrix Spike (B4A2222-MS1)

Source: Y401448-01

Prepared: 01/22/2024 Analyzed: 01/24/2024

Benzo (k) fluoranthene	0.196	0.020	mg/kg	0.200	0.002	97.2	70-130			
Chrysene	0.184	0.020	"	0.200	ND	92.0	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200	0.001	107	70-130			
Fluoranthene	0.163	0.020	"	0.200	0.0009	81.1	70-130			
Fluorene	0.169	0.020	"	0.200	0.0004	84.1	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200	ND	99.4	70-130			
Naphthalene	0.172	0.002	"	0.200	ND	86.2	70-130			
Phenanthrene	0.182	0.020	"	0.200	ND	91.2	70-130			
Pyrene	0.172	0.020	"	0.200	0.0005	85.7	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	180		"	200		91.8	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		116	60-130			

Matrix Spike Dup (B4A2222-MSD1)

Source: Y401448-01

Prepared: 01/22/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0005	92.6	70-130	0.0200	20	
2-Methylnaphthalene	0.188	0.002	"	0.200	ND	94.0	70-130	0.630	20	
Acenaphthene	0.168	0.020	"	0.200	0.0002	83.7	70-130	0.856	20	
Anthracene	0.182	0.020	"	0.200	0.0005	90.6	70-130	1.89	20	
Benzo (a) anthracene	0.168	0.005	"	0.200	0.002	82.6	70-130	1.12	20	
Benzo (a) pyrene	0.189	0.020	"	0.200	0.001	93.8	70-130	4.56	20	
Benzo (b) fluoranthene	0.177	0.020	"	0.200	0.001	88.0	70-130	12.2	20	
Benzo (g,h,i) perylene	0.170	0.020	"	0.200	0.001	84.7	70-130	6.92	20	
Benzo (k) fluoranthene	0.174	0.020	"	0.200	0.002	85.9	70-130	12.1	20	
Chrysene	0.196	0.020	"	0.200	ND	97.9	70-130	6.24	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	0.001	97.2	70-130	9.66	20	
Fluoranthene	0.178	0.020	"	0.200	0.0009	88.5	70-130	8.69	20	

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 - Sater CC #18-17D

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 B4A2222 - EPA 3580

Matrix Spike Dup (B4A2222-MSD1)

Source: Y401448-01

Prepared: 01/22/2024 Analyzed: 01/24/2024

Fluorene	0.171	0.020	mg/kg	0.200	0.0004	85.4	70-130	1.49	20	
Indeno (1,2,3-cd) pyrene	0.173	0.020	"	0.200	ND	86.6	70-130	13.7	20	
Naphthalene	0.173	0.002	"	0.200	ND	86.5	70-130	0.322	20	
Phenanthrene	0.179	0.020	"	0.200	ND	89.4	70-130	2.01	20	
Pyrene	0.190	0.020	"	0.200	0.0005	94.6	70-130	9.87	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	220		"	200		109	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		109	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 - Sater CC #18-17D

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 B4A2207 - Saturated Paste Metals

Blank (B4A2207-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B4A2207-DUP1)

Source: Y401445-02

Prepared: 01/22/2024 Analyzed: 01/23/2024

Calcium PPM	557	10.0	mg/L		553		0.676	50		
SAR	ND	0.0100	SAR		7.79			200		
Magnesium PPM	140	10.0	mg/L		136		2.86	50		
Sodium PPM	814	10.0	"		789		3.12	50		

Batch B4A2310 - DTPA Sorbitol Preparation

Blank (B4A2310-BLK1)

Prepared: 01/23/2024 Analyzed: 01/24/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4A2310-DUP1)

Source: Y401479-02

Prepared: 01/23/2024 Analyzed: 01/24/2024

Boron	0.221	0.102	mg/L		0.220		0.378	50		
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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 - Sater CC #18-17D

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 B4A2213 - Saturated Paste pH/EC

Blank (B4A2213-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4A2213-DUP1)

Source: Y401445-02

Prepared: 01/22/2024 Analyzed: 01/23/2024

pH	8.10		pH Units	8.09		0.124	25
Specific Conductance (EC)	6.06	0.00500	mmhos/cm	6.97		13.8	25

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 - Sater CC #18-17D

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 L729225 -

DUP (L 84175-DUP)

Source: Y401488-01

Prepared: Analyzed: 01/26/2024

Chromium, Hexavalent	ND	0.5	mg/Kg	<0.500	-	0	20
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MS (L 84175-MS)

Source: Y401488-01

Prepared: Analyzed: 01/26/2024

Chromium, Hexavalent	34.4	2.51	mg/Kg	40.2	< 0.244	86	75-125
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LCS (LCS)

Prepared: Analyzed: 01/26/2024

Chromium, Hexavalent	6.6	0.5	mg/Kg	8	83	75-125
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LRB (LRB)

Prepared: Analyzed: 01/26/2024

Chromium, Hexavalent	ND	0.5	mg/Kg	-	-	-
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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 - Sater CC #18-17D

Notes and Definitions

U Sample is Non-Detect.

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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Jordan A. Bynon, Project Manager