



February 05, 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 22, 2024. This project is associated with Origins project number Y401513-01.

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-08@5	Y401513-01	Soil	January 22, 2024 13:30	01/22/2024 16:35
FL-SS-10@4	Y401513-02	Soil	January 22, 2024 14:00	01/22/2024 16:35

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  
Effective Date: 01/09/12

### Sample Receipt Checklist

Origins Work Order: Y401513

Client: Eagle  
Client Project ID: Sater CC 18-17D

Checklist Completed by: EHS  
Date/time completed: 1/22/24

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 114 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/23/24

Origins Laboratory, Inc.

[Signature]

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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-08@5'**  
**1/22/2024 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401513-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.101	mg/L	1	B4A2310	01/23/2024	01/24/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	171		25.0	mg/kg	1	B4A2401	01/24/2024	01/25/2024	
Residual Range Organics (C28-C40)	106		100	"	"	"	"	"	

Surrogate: o-Terphenyl	103 %		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2304	01/23/2024	01/23/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	0.148		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  
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**FL-SS-08@5'**  
**1/22/2024 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401513-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	132 %		70-130			B4A23 04	01/23/2024	01/23/2024	GC
Surrogate: Toluene-d8	106 %		70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	89.2 %		70-130			"	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	0.705		0.499	meq/L	10	[CALC]	01/23/2024	01/24/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.692		0.020	mg/kg	10	B4A2321	01/23/2024	01/25/2024	
2-Methylnaphthalene	1.29		0.020	"	"	"	"	"	
Acenaphthene	5.97		0.200	"	"	"	"	"	
Anthracene	11.9		2.00	"	100	"	"	01/25/2024	
Benzo (a) anthracene	12.7		0.500	"	"	"	"	"	
Benzo (a) pyrene	7.74		0.200	"	10	"	"	01/25/2024	
Benzo (b) fluoranthene	8.57		0.200	"	"	"	"	"	
Benzo (k) fluoranthene	3.97		0.200	"	"	"	"	"	
Chrysene	12.2		2.00	"	100	"	"	01/25/2024	
Dibenz (a,h) anthracene	1.16		0.200	"	10	"	"	01/25/2024	
Fluoranthene	45.7		0.200	"	"	"	"	"	
Fluorene	8.30		0.200	"	"	"	"	"	

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**FL-SS-08@5'**  
**1/22/2024 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401513-01 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	3.53		0.200	mg/kg	10	B4A2321	01/23/2024	01/25/2024	
Pyrene	28.6		2.00	"	100	"	"	01/25/2024	

Surrogate: Fluorene-d10	99.8 %		60-130			"	"	01/25/2024	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.8 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.41			pH Units	1	B4A2315	01/23/2024	01/24/2024	
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**SAR by 20B Saturated Paste**

SAR	0.268		0.0100	SAR	1	B4A2312	01/23/2024	01/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.140		0.00500	mmhos/cm	1	B4A2315	01/23/2024	01/24/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.74		0.0897	mg/kg	10	B4A2232	01/22/2024	01/25/2024	
Barium	47.5		8.97	"	"	"	"	"	

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**FL-SS-08@5'**  
**1/22/2024 1:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401513-01 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	ND		0.0897	mg/kg	10	B4A2232	01/22/2024	01/25/2024	
Copper	ND		8.97	"	"	"	"	"	"
Lead	4.39		0.897	"	"	"	"	"	"
Nickel	4.53		0.897	"	"	"	"	"	"
Selenium	ND		0.0897	"	"	"	"	"	"
Silver	ND		0.0897	"	"	"	"	"	"
Zinc	20.8		8.97	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729912	01/22/2024	01/30/2024	
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**FL-SS-10@4'**  
**1/22/2024 2:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401513-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0998	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	B4A2401	01/24/2024	01/25/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.0 %		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4A2304	01/23/2024	01/23/2024	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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 Wheat Ridge CO 80033

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 Project: Noble - Sater CC #18-17D

**FL-SS-10@4'**  
**1/22/2024 2:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401513-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	135 %		70-130			B4A23 04	01/23/2024	01/23/2024	GC
Surrogate: Toluene-d8	106 %		70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	88.5 %		70-130			"	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	1.28		0.499	meq/L	10	[CALC]	01/23/2024	01/24/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4A2321	01/23/2024	01/25/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.007		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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**FL-SS-10@4'**  
**1/22/2024 2:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401513-02 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4A2321	01/23/2024	01/25/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.3%		60-130			"	"	"	
Surrogate: Anthracene-d10	98.0%		60-130			"	"	"	
Surrogate: Pyrene-d10	99.2%		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.1%		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.22			pH Units	1	B4A2315	01/23/2024	01/24/2024	
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**SAR by 20B Saturated Paste**

SAR	0.0958		0.0100	SAR	1	B4A2312	01/23/2024	01/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.215		0.00500	mmhos/cm	1	B4A2315	01/23/2024	01/24/2024	
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**Table 915 metals by EPA 6020B**

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**FL-SS-10@4'**  
**1/22/2024 2:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401513-02 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.30		0.0910	mg/kg	10	B4A2232	01/22/2024	01/25/2024	
Barium	65.6		9.10	"	"	"	"	"	"
Cadmium	0.229		0.0910	"	"	"	"	"	"
Copper	ND		9.10	"	"	"	"	"	"
Lead	6.46		0.910	"	"	"	"	"	"
Nickel	7.13		0.910	"	"	"	"	"	"
Selenium	0.166		0.0910	"	"	"	"	"	"
Silver	ND		0.0910	"	"	"	"	"	"
Zinc	32.0		9.10	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729912	01/22/2024	01/30/2024	
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 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 B4A2304 - EPA 5030 (soil)

Blank (B4A2304-BLK1)

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

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	0.15		"	0.125		123	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.8	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 - 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 B4A2304 - EPA 5030 (soil)

LCS (B4A2304-BS1)

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

1,2,4-Trimethylbenzene	0.0962	0.00200	mg/kg	0.100		96.2	70-130			
1,3,5-Trimethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
Benzene	0.0962	0.00200	"	0.100		96.2	70-130			
Ethylbenzene	0.0950	0.00200	"	0.100		95.0	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.0949	0.00200	"	0.100		94.9	70-130			
o-Xylene	0.0977	0.00200	"	0.100		97.7	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.5	70-130			

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Andrew Newberry  
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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 B4A2304 - EPA 5030 (soil)

Matrix Spike (B4A2304-MS1)

Source: Y401511-01

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

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.113	0.00200	"	0.100	ND	113	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130			
Toluene	0.110	0.00200	"	0.100	ND	110	70-130			
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130			
m,p-Xylene	0.213	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	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

**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 B4A2304 - EPA 5030 (soil)

Matrix Spike Dup (B4A2304-MSD1)

Source: Y401511-01

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

1,2,4-Trimethylbenzene	0.0903	0.00200	mg/kg	0.100	ND	90.3	70-130	12.8	20	
1,3,5-Trimethylbenzene	0.0911	0.00200	"	0.100	ND	91.1	70-130	12.8	20	
Benzene	0.0954	0.00200	"	0.100	ND	95.4	70-130	17.2	20	
Ethylbenzene	0.0967	0.00200	"	0.100	ND	96.7	70-130	11.8	20	
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130	3.68	20	
Toluene	0.0922	0.00200	"	0.100	ND	92.2	70-130	17.5	20	
o-Xylene	0.0987	0.00200	"	0.100	ND	98.7	70-130	12.1	20	
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.1	70-130	12.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	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

**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 B4A2401 - EPA 3550B

Blank (B4A2401-BLK1)

Prepared: 01/24/2024 Analyzed: 01/25/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		101	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 - Sater CC #18-17D

**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 B4A2401 - EPA 3550B

LCS (B4A2401-BS1)

Prepared: 01/24/2024 Analyzed: 01/25/2024

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	66		"	49.8		132	50-150			

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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 - Sater CC #18-17D

**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 B4A2401 - EPA 3550B

Matrix Spike (B4A2401-MS1)

Source: Y401513-01

Prepared: 01/24/2024 Analyzed: 01/25/2024

Diesel (C10-C28)	1030	50.0	mg/kg	1000	171	86.4	70-130			
Residual Range Organics (C28-C40)	909	200	"	1000	106	80.3	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	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 - Sater CC #18-17D

**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 B4A2401 - EPA 3550B

Matrix Spike Dup (B4A2401-MSD1)

Source: Y401513-01

Prepared: 01/24/2024 Analyzed: 01/25/2024

Diesel (C10-C28)	1090	50.0	mg/kg	1000	171	91.7	70-130	5.00	35	
Residual Range Organics (C28-C40)	951	200	"	1000	106	84.5	70-130	4.49	35	
Surrogate: o-Terphenyl	50		"	49.8		99.6	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 - Sater CC #18-17D

**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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**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 B4A2232 - EPA 3050B**

**Blank (B4A2232-BLK1)**

Prepared: 01/22/2024 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 (B4A2232-BS1)**

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	5.38	0.0100	mg/kg	5.00		108	80-120			
Barium	542	1.00	"	500		108	80-120			
Cadmium	5.10	0.0100	"	5.00		102	80-120			
Copper	53.4	1.00	"	50.0		107	80-120			
Lead	5.19	0.100	"	5.00		104	80-120			
Nickel	5.37	0.100	"	5.00		107	80-120			
Selenium	4.94	0.0100	"	5.00		98.7	80-120			
Silver	5.95	0.0100	"	5.00		119	80-120			
Zinc	57.9	1.00	"	50.0		116	80-120			

**Matrix Spike (B4A2232-MS1)**

Source: Y401511-04

Prepared: 01/22/2024 Analyzed: 01/25/2024

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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 - 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 B4A2232 - EPA 3050B

**Matrix Spike (B4A2232-MS1)**

Source: Y401511-04

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	6.36	0.0949	mg/kg	4.74	1.36	105	75-125			
Barium	552	9.49	"	474	32.5	110	75-125			
Cadmium	4.81	0.0949	"	4.74	0.0313	101	75-125			
Copper	49.4	9.49	"	47.4	3.27	97.2	75-125			
Lead	8.05	0.949	"	4.74	2.84	110	75-125			
Nickel	7.87	0.949	"	4.74	2.86	106	75-125			
Selenium	4.39	0.0949	"	4.74	ND	92.6	75-125			
Silver	4.79	0.0949	"	4.74	ND	101	75-125			
Zinc	70.1	9.49	"	47.4	17.1	112	75-125			

**Matrix Spike Dup (B4A2232-MSD1)**

Source: Y401511-04

Prepared: 01/22/2024 Analyzed: 01/25/2024

Arsenic	6.01	0.0913	mg/kg	4.57	1.36	102	75-125	5.59	20	
Barium	518	9.13	"	457	32.5	106	75-125	6.27	20	
Cadmium	4.65	0.0913	"	4.57	0.0313	101	75-125	3.34	20	
Copper	47.0	9.13	"	45.7	3.27	95.8	75-125	4.93	20	
Lead	7.71	0.913	"	4.57	2.84	107	75-125	4.38	20	
Nickel	7.34	0.913	"	4.57	2.86	98.1	75-125	6.96	20	
Selenium	4.49	0.0913	"	4.57	0.0367	97.5	75-125	2.16	20	
Silver	4.66	0.0913	"	4.57	ND	102	75-125	2.73	20	
Zinc	65.5	9.13	"	45.7	17.1	106	75-125	6.89	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 - 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 B4A2321 - EPA 3580**

**Blank (B4A2321-BLK1)**

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

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		98.4	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**LCS (B4A2321-BS1)**

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

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		93.8	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.7	70-130			
Acenaphthene	0.181	0.020	"	0.200		90.7	70-130			
Anthracene	0.180	0.020	"	0.200		90.0	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 B4A2321 - EPA 3580**

**LCS (B4A2321-BS1)**

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

Benzo (a) anthracene	0.175	0.005	mg/kg	0.200		87.4	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200		95.0	70-130			
Benzo (b) fluoranthene	0.194	0.020	"	0.200		96.9	70-130			
Benzo (g,h,i) perylene	0.189	0.020	"	0.200		94.6	70-130			
Benzo (k) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Chrysene	0.183	0.020	"	0.200		91.5	70-130			
Dibenz (a,h) anthracene	0.203	0.020	"	0.200		102	70-130			
Fluoranthene	0.184	0.020	"	0.200		92.2	70-130			
Fluorene	0.178	0.020	"	0.200		88.8	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200		99.5	70-130			
Naphthalene	0.185	0.002	"	0.200		92.6	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.7	70-130			
Pyrene	0.188	0.020	"	0.200		94.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	200		"	200		99.8	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

**Matrix Spike (B4A2321-MS1)**

Source: Y401500-01

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

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.0009	95.8	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200	0.001	96.4	70-130			
Acenaphthene	0.192	0.020	"	0.200	0.008	92.2	70-130			
Anthracene	0.204	0.020	"	0.200	ND	102	70-130			
Benzo (a) anthracene	0.188	0.005	"	0.200	0.0004	93.7	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.7	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.002	97.8	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	0.002	94.5	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 B4A2321 - EPA 3580**

**Matrix Spike (B4A2321-MS1)**

**Source: Y401500-01**

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

Benzo (k) fluoranthene	0.187	0.020	mg/kg	0.200	ND	93.7	70-130			
Chrysene	0.196	0.020	"	0.200	0.013	91.8	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	0.0008	98.4	70-130			
Fluoranthene	0.194	0.020	"	0.200	0.003	95.5	70-130			
Fluorene	0.199	0.020	"	0.200	0.011	94.2	70-130			
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	ND	96.7	70-130			
Naphthalene	0.190	0.002	"	0.200	ND	94.9	70-130			
Phenanthrene	0.185	0.020	"	0.200	0.004	90.9	70-130			
Pyrene	0.187	0.020	"	0.200	0.005	91.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		99.7	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	60-130			

**Matrix Spike Dup (B4A2321-MSD1)**

**Source: Y401500-01**

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

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.0009	94.3	70-130	1.55	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	0.001	94.4	70-130	2.17	20	
Acenaphthene	0.187	0.020	"	0.200	0.008	89.6	70-130	2.72	20	
Anthracene	0.205	0.020	"	0.200	ND	102	70-130	0.520	20	
Benzo (a) anthracene	0.184	0.005	"	0.200	0.0004	91.9	70-130	1.92	20	
Benzo (a) pyrene	0.186	0.020	"	0.200	ND	92.9	70-130	3.43	20	
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.002	97.7	70-130	0.112	20	
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	0.002	91.7	70-130	2.94	20	
Benzo (k) fluoranthene	0.193	0.020	"	0.200	ND	96.6	70-130	3.05	20	
Chrysene	0.191	0.020	"	0.200	0.013	89.0	70-130	2.88	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	0.0008	97.3	70-130	1.06	20	
Fluoranthene	0.191	0.020	"	0.200	0.003	94.0	70-130	1.48	20	

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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 B4A2321 - EPA 3580

Matrix Spike Dup (B4A2321-MSD1)

Source: Y401500-01

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

Fluorene	0.196	0.020	mg/kg	0.200	0.011	92.6	70-130	1.57	20	
Indeno (1,2,3-cd) pyrene	0.180	0.020	"	0.200	ND	89.8	70-130	7.37	20	
Naphthalene	0.186	0.002	"	0.200	ND	92.9	70-130	2.19	20	
Phenanthrene	0.181	0.020	"	0.200	0.004	88.6	70-130	2.59	20	
Pyrene	0.186	0.020	"	0.200	0.005	90.8	70-130	0.345	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	190		"	200		97.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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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 B4A2310 - DTPA Sorbitol Preparation**

**Blank (B4A2310-BLK1)**

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

Boron ND 0.100 mg/L

**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

**Batch B4A2312 - Saturated Paste Metals**

**Blank (B4A2312-BLK1)**

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

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B4A2312-DUP1)**

**Source: Y401500-01**

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

SAR ND 0.0100 SAR 1.27 200

Calcium PPM 41.2 10.0 mg/L 35.4 15.4 50

Magnesium PPM 26.3 10.0 " 22.7 14.5 50

Sodium PPM 42.8 10.0 " 39.4 8.27 50

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 B4A2315 - Saturated Paste pH/EC**

**Blank (B4A2315-BLK1)**

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

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4A2315-DUP1)**

**Source: Y401500-01**

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

pH 8.52 pH Units 8.53 0.117 25

Specific Conductance (EC) 0.632 0.00500 mmhos/cm 0.495 24.3 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 L729912 -

**DUP (L 90749-DUP)**

Source: 90749

Prepared: Analyzed: 01/30/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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**MS (L 90749-MS)**

Source: 90749

Prepared: Analyzed: 01/30/2024

Chromium, Hexavalent	31.6	2.5	mg/Kg	40	<0.244	79	75-125		
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**LCS (LCS)**

Prepared: Analyzed: 01/30/2024

Chromium, Hexavalent	6.3	0.5	mg/Kg	8		79	75-125		
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**LRB (LRB)**

Prepared: Analyzed: 01/30/2024

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 - Sater CC #18-17D

## 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.
  - 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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