



February 01, 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 18, 2024. This project is associated with Origins project number Y401443-01.

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-03@4	Y401443-01	Soil	January 18, 2024 14:30	01/18/2024 17:03
Background-02@2	Y401443-02	Soil	January 18, 2024 14:51	01/18/2024 17:03

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: 1401443 Client: Eagle
Client Project ID: Sater CC 18-17D
Checklist Completed by: ZHS Shipped Via: HO
Date/time completed: 1/18/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
Cooler Number/Temperature: 1/3 °C / _____ °C / _____ °C (Describe)
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 subcontracted analyses in order to insure sample integrity) (pH > 10 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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) [Signature]

Date/Time Reviewed 1/18/24

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-03@4'
1/18/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0998	mg/L	1	B4A2211	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4A1903	01/19/2024	01/23/2024	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	B4A1950	01/19/2024	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

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

FL-SS-03@4
 1/18/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			B4A19 50	01/19/2024	01/22/2024	
Surrogate: Toluene-d8	97.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		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	B4A1929	01/19/2024	01/23/2024	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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1/18/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4A1929	01/19/2024	01/23/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	107 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.71			pH Units	1	B4A2212	01/22/2024	01/23/2024	
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SAR by 20B Saturated Paste

SAR	0.159		0.0100	SAR	1	B4A2206	01/22/2024	01/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0755		0.00500	mmhos/cm	1	B4A2212	01/22/2024	01/23/2024	
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Table 915 metals by EPA 6020B

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FL-SS-03@4'
1/18/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.33		0.0894	mg/kg	10	B4A1842	01/18/2024	01/23/2024	
Barium	35.6		8.94	"	"	"	"	"	
Cadmium	ND		0.0894	"	"	"	"	"	
Copper	ND		8.94	"	"	"	"	"	
Lead	4.23		0.894	"	"	"	"	"	
Nickel	4.11		0.894	"	"	"	"	"	
Selenium	ND		0.0894	"	"	"	"	"	
Silver	ND		0.0894	"	"	"	"	"	
Zinc	18.0		8.94	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729671	01/18/2024	01/30/2024	
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Background-02@2'
1/18/2024 2:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.665		0.0999	mg/L	1	B4A2211	01/22/2024	01/23/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.45		0.499	meq/L	10	[CALC]	01/22/2024	01/23/2024	
Magnesium	1.60		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B4A2212	01/22/2024	01/23/2024	
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SAR by 20B Saturated Paste

SAR	0.0695		0.0100	SAR	1	B4A2206	01/22/2024	01/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.29		0.00500	mmhos/cm	1	B4A2212	01/22/2024	01/23/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.65		0.0912	mg/kg	10	B4A1842	01/18/2024	01/23/2024	
Barium	69.5		9.12	"	"	"	"	"	
Cadmium	0.182		0.0912	"	"	"	"	"	
Copper	10.2		9.12	"	"	"	"	"	

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Background-02@2'
1/18/2024 2:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401443-02 (Soil)

Table 915 metals by EPA 6020B

Lead	8.86		0.912	mg/kg	10	B4A1842	01/18/2024	01/23/2024	
Nickel	5.78		0.912	"	"	"	"	"	"
Selenium	0.137		0.0912	"	"	"	"	"	"
Silver	ND		0.0912	"	"	"	"	"	"
Zinc	54.9		9.12	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L729672	01/18/2024	01/30/2024	
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Jordan A. Bynon, Project Manager



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 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 B4A1903 - EPA 3550B

Blank (B4A1903-BLK1)

Prepared: 01/19/2024 Analyzed: 01/23/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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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 B4A1903 - EPA 3550B

LCS (B4A1903-BS1)

Prepared: 01/19/2024 Analyzed: 01/23/2024

Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	70-130			
Residual Range Organics (C28-C40)	914	200	"	1000		91.4	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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 Project Number: [none]
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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 B4A1903 - EPA 3550B

Matrix Spike (B4A1903-MS1)

Source: Y401440-01

Prepared: 01/19/2024 Analyzed: 01/23/2024

Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	70-130			
Residual Range Organics (C28-C40)	920	200	"	1000	ND	92.0	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	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 B4A1903 - EPA 3550B

Matrix Spike Dup (B4A1903-MSD1)

Source: Y401440-01

Prepared: 01/19/2024 Analyzed: 01/23/2024

Diesel (C10-C28)	896	50.0	mg/kg	1000	ND	89.6	70-130	4.96	35	
Residual Range Organics (C28-C40)	891	200	"	1000	ND	89.1	70-130	3.27	35	
Surrogate: o-Terphenyl	62		"	49.8		125	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 B4A1950 - EPA 5030 (soil)

Blank (B4A1950-BLK1)

Prepared: 01/19/2024 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	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	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 B4A1950 - EPA 5030 (soil)

LCS (B4A1950-BS1)

Prepared: 01/19/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	0.0994	0.00200	mg/kg	0.100		99.4	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0991	0.00200	"	0.100		99.1	70-130			
Ethylbenzene	0.0962	0.00200	"	0.100		96.2	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.0955	0.00200	"	0.100		95.5	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	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 B4A1950 - EPA 5030 (soil)

Matrix Spike (B4A1950-MS1)

Source: Y401443-01

Prepared: 01/19/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
Ethylbenzene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
Naphthalene	0.0877	0.00380	"	0.100	ND	87.7	70-130			
Toluene	0.0977	0.00200	"	0.100	ND	97.7	70-130			
o-Xylene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	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 B4A1950 - EPA 5030 (soil)

Matrix Spike Dup (B4A1950-MSD1)

Source: Y401443-01

Prepared: 01/19/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	0.0966	0.00200	mg/kg	0.100	ND	96.6	70-130	5.32	20	
1,3,5-Trimethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	6.24	20	
Benzene	0.0937	0.00200	"	0.100	ND	93.7	70-130	1.81	20	
Ethylbenzene	0.0939	0.00200	"	0.100	ND	93.9	70-130	5.27	20	
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130	17.0	20	
Toluene	0.0959	0.00200	"	0.100	ND	95.9	70-130	1.90	20	
o-Xylene	0.0915	0.00200	"	0.100	ND	91.5	70-130	3.98	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.1	70-130	5.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	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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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 B4A1842 - EPA 3050B

Blank (B4A1842-BLK1)

Prepared: 01/18/2024 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 (B4A1842-BS1)

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	4.51	0.0100	mg/kg	5.00		90.1	80-120			
Barium	443	1.00	"	500		88.6	80-120			
Cadmium	4.78	0.0100	"	5.00		95.5	80-120			
Copper	48.6	1.00	"	50.0		97.1	80-120			
Lead	5.07	0.100	"	5.00		101	80-120			
Nickel	4.86	0.100	"	5.00		97.1	80-120			
Selenium	4.71	0.0100	"	5.00		94.2	80-120			
Silver	4.84	0.0100	"	5.00		96.8	80-120			
Zinc	47.8	1.00	"	50.0		95.5	80-120			

Matrix Spike (B4A1842-MS1)

Source: Y401382-07

Prepared: 01/18/2024 Analyzed: 01/23/2024

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 B4A1842 - EPA 3050B

Matrix Spike (B4A1842-MS1)

Source: Y401382-07

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	5.03	0.0858	mg/kg	4.29	1.72	77.0	75-125			
Barium	399	8.58	"	429	35.6	84.7	75-125			
Cadmium	4.28	0.0858	"	4.29	0.295	92.8	75-125			
Copper	49.3	8.58	"	42.9	11.1	89.1	75-125			
Lead	17.6	0.858	"	4.29	14.5	73.2	75-125			QM-07
Nickel	7.43	0.858	"	4.29	3.50	91.6	75-125			
Selenium	3.86	0.0858	"	4.29	0.0881	88.0	75-125			
Silver	3.75	0.0858	"	4.29	0.0492	86.4	75-125			
Zinc	111	8.58	"	42.9	62.8	112	75-125			

Matrix Spike Dup (B4A1842-MSD1)

Source: Y401382-07

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	5.81	0.0884	mg/kg	4.42	1.72	92.5	75-125	14.5	20	
Barium	471	8.84	"	442	35.6	98.4	75-125	16.5	20	
Cadmium	5.04	0.0884	"	4.42	0.295	107	75-125	16.3	20	
Copper	57.2	8.84	"	44.2	11.1	104	75-125	14.7	20	
Lead	18.6	0.884	"	4.42	14.5	93.5	75-125	5.47	20	
Nickel	8.49	0.884	"	4.42	3.50	113	75-125	13.3	20	
Selenium	4.34	0.0884	"	4.42	0.0881	96.3	75-125	11.7	20	
Silver	4.36	0.0884	"	4.42	0.0492	97.6	75-125	15.0	20	
Zinc	113	8.84	"	44.2	62.8	113	75-125	1.70	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 B4A1929 - EPA 3580

Blank (B4A1929-BLK1)

Prepared: 01/19/2024 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		97.7	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		111	60-130			

LCS (B4A1929-BS1)

Prepared: 01/19/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.7	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		94.8	70-130			
Acenaphthene	0.172	0.020	"	0.200		86.1	70-130			
Anthracene	0.191	0.020	"	0.200		95.3	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

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 B4A1929 - EPA 3580

LCS (B4A1929-BS1)

Prepared: 01/19/2024 Analyzed: 01/24/2024

Benzo (a) anthracene	0.167	0.005	mg/kg	0.200		83.5	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200		99.8	70-130			
Benzo (b) fluoranthene	0.183	0.020	"	0.200		91.3	70-130			
Benzo (g,h,i) perylene	0.187	0.020	"	0.200		93.3	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200		83.9	70-130			
Chrysene	0.182	0.020	"	0.200		91.0	70-130			
Dibenz (a,h) anthracene	0.227	0.020	"	0.200		114	70-130			
Fluoranthene	0.161	0.020	"	0.200		80.3	70-130			
Fluorene	0.174	0.020	"	0.200		87.1	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130			
Naphthalene	0.178	0.002	"	0.200		89.2	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.7	70-130			
Pyrene	0.151	0.020	"	0.200		75.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		94.3	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		113	60-130			

Matrix Spike (B4A1929-MS1)

Source: Y401406-01

Prepared: 01/19/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	0.0005	97.3	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.8	70-130			
Acenaphthene	0.168	0.020	"	0.200	0.0003	83.9	70-130			
Anthracene	0.197	0.020	"	0.200	ND	98.6	70-130			
Benzo (a) anthracene	0.166	0.005	"	0.200	0.0007	82.8	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200	ND	95.7	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200	0.0006	92.3	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.0007	93.5	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 B4A1929 - EPA 3580

Matrix Spike (B4A1929-MS1)

Source: Y401406-01

Prepared: 01/19/2024 Analyzed: 01/24/2024

Benzo (k) fluoranthene	0.167	0.020	mg/kg	0.200	0.0008	83.2	70-130			
Chrysene	0.169	0.020	"	0.200	0.0003	84.2	70-130			
Dibenz (a,h) anthracene	0.228	0.020	"	0.200	0.0008	114	70-130			
Fluoranthene	0.160	0.020	"	0.200	ND	80.2	70-130			
Fluorene	0.166	0.020	"	0.200	0.0002	82.7	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	ND	99.2	70-130			
Naphthalene	0.177	0.002	"	0.200	ND	88.6	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.4	70-130			
Pyrene	0.162	0.020	"	0.200	ND	80.9	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.7	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	180		"	200		89.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

Matrix Spike Dup (B4A1929-MSD1)

Source: Y401406-01

Prepared: 01/19/2024 Analyzed: 01/24/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0005	92.6	70-130	4.88	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	ND	91.9	70-130	6.26	20	
Acenaphthene	0.168	0.020	"	0.200	0.0003	84.0	70-130	0.0709	20	
Anthracene	0.176	0.020	"	0.200	ND	88.1	70-130	11.3	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.0007	85.3	70-130	3.03	20	
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.4	70-130	1.74	20	
Benzo (b) fluoranthene	0.165	0.020	"	0.200	0.0006	82.4	70-130	11.2	20	
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	0.0007	91.8	70-130	1.86	20	
Benzo (k) fluoranthene	0.173	0.020	"	0.200	0.0008	86.0	70-130	3.32	20	
Chrysene	0.187	0.020	"	0.200	0.0003	93.2	70-130	10.1	20	
Dibenz (a,h) anthracene	0.212	0.020	"	0.200	0.0008	106	70-130	7.31	20	
Fluoranthene	0.165	0.020	"	0.200	ND	82.4	70-130	2.68	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 B4A1929 - EPA 3580

Matrix Spike Dup (B4A1929-MSD1)

Source: Y401406-01

Prepared: 01/19/2024 Analyzed: 01/24/2024

Fluorene	0.169	0.020	mg/kg	0.200	0.0002	84.4	70-130	2.05	20	
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.3	70-130	6.17	20	
Naphthalene	0.176	0.002	"	0.200	ND	88.2	70-130	0.424	20	
Phenanthrene	0.184	0.020	"	0.200	ND	92.2	70-130	1.33	20	
Pyrene	0.157	0.020	"	0.200	ND	78.6	70-130	2.82	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	220		"	200		110	60-130			
Surrogate: Pyrene-d10	190		"	200		92.9	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		111	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 B4A2206 - Saturated Paste Metals

Blank (B4A2206-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 (B4A2206-DUP1)

Source: Y401440-01

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

SAR	ND	0.0100	SAR	5.60				200		
Calcium PPM	12.6	10.0	mg/L	11.2				11.9	50	
Magnesium PPM	2.34	10.0	"	2.06				12.7	50	
Sodium PPM	84.8	10.0	"	77.7				8.70	50	

Batch B4A2211 - DTPA Sorbitol Preparation

Blank (B4A2211-BLK1)

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

Boron	ND	0.100	mg/L							
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Duplicate (B4A2211-DUP1)

Source: Y401440-02

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

Boron	0.451	0.0998	mg/L	0.484				7.09	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 B4A2212 - Saturated Paste pH/EC

Blank (B4A2212-BLK1)

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

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4A2212-DUP1)

Source: Y401440-01

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

Specific Conductance (EC) 0.450 0.00500 mmhos/cm 0.466 3.62 25

pH 8.53 pH Units 8.53 0.00 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 L729672 -

DUP (L 91060-DUP)

Source: Y401443-02

Prepared: Analyzed: 01/30/2024

Chromium, Hexavalent	ND	2.5	mg/Kg	<2.50	-	0	20			
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MS (L 91060-MS)

Source: Y401443-02

Prepared: Analyzed: 01/30/2024

Chromium, Hexavalent	17.6	2.5	mg/Kg	39.7	<1.22	44	75-125			*
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LCS (LCS)

Prepared: Analyzed: 01/30/2024

Chromium, Hexavalent	6.03	0.5	mg/Kg	8	75	75-125				
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LRB (LRB)

Prepared: Analyzed: 01/30/2024

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

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 L729671 -

DUP (L 90281-DUP)

Source: 90281

Prepared: Analyzed: 01/30/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20		
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MS (L 90281-MS)

Source: 90281

Prepared: Analyzed: 01/30/2024

Chromium, Hexavalent	19.4	2.5	mg/Kg	39	< 0.244	50	75-125			*
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LCS (LCS)

Prepared: Analyzed: 01/30/2024

Chromium, Hexavalent	6.19	0.5	mg/Kg	8		77	75-125			
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LRB (LRB)

Prepared: Analyzed: 01/30/2024

Chromium, Hexavalent	ND	0.5	mg/Kg			-				
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Origins Laboratory, Inc.



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

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.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

* QC Failure

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.

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Jordan A. Bynon, Project Manager