

July 14, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Timmerman 23-13

Project Number - [none]

Attached are your analytical results for Noble - Timmerman 23-13 received by Origins Laboratory, Inc. June 28, 2023. This project is associated with Origins project number Y306815-01.

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



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Timmerman 23-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y306815-01	Soil	June 28, 2023 9:33	06/28/2023 17:15

A pH rerun was requested per Grace's email on 07/10/2023. No errors were found in the original data, all three results are reported. JAB

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Timmerman 23-13

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

Sample Receipt Checklist

Origins Work Order: V306815 Client: Eagle
 Client Project ID: Timmerman 23-13

Checklist Completed by: EHS Shipped Via: HO
 Date/time completed: 6/29/23 (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 / 10 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7004

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"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analytes in order to insure sample integrity)/(pH <2 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"/>	
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: Jo (Project Manager) Date/Time Reviewed: 7-10-23

Origins Laboratory, Inc.


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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Timmerman 23-13

WH-FS-01@7'

6/28/2023 9:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306815-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.521		0.101	mg/L	1	B3G0304	07/03/2023	07/05/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3F3001	06/30/2023	07/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3F3042	06/30/2023	07/05/2023	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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Martin C Eckert III
Project Number: [none]
Project: Noble - Timmerman 23-13

WH-FS-01@7'

6/28/2023 9:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306815-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	95.7 %		70-130			B3F30 42	06/30/2023	07/05/2023	
Surrogate: Toluene-d8	90.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	77.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.00		0.499	meq/L	10	[CALC]	06/30/2023	07/03/2023	
Magnesium	6.91		0.823	"	"	"	"	"	
Sodium	7.75		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L691186	07/06/2023	07/06/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

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WH-FS-01@7'

6/28/2023 9:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306815-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L691186	07/06/2023	07/06/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	49.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	40.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.47			pH Units	1	B3F3015	06/30/2023	07/01/2023	
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SAR by 20B Saturated Paste

SAR	3.32			SAR	1	B3F3007	06/30/2023	07/03/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.30		0.00500	mmhos/cm	1	B3F3015	06/30/2023	07/01/2023	
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Martin C Eckert III
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Project: Noble - Timmerman 23-13

WH-FS-01@7'

6/28/2023 9:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306815-01RE1 (Soil)

pH in Soil by 9045D

pH	8.39			pH Units	1	B3G1116	06/30/2023	07/12/2023	
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Martin C Eckert III
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Project: Noble - Timmerman 23-13

WH-FS-01@7'

6/28/2023 9:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306815-01RE2 (Soil)

pH in Soil by 9045D

pH	8.33			pH Units	1	B3G1116	06/30/2023	07/12/2023	
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Eagle Environmental Consulting, LLC
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Martin C Eckert III
Project Number: [none]
Project: Noble - Timmerman 23-13

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
Batch B3F3001 - EPA 3550B										
Blank (B3F3001-BLK1)										
					Prepared: 06/30/2023 Analyzed: 07/03/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		105	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Timmerman 23-13

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 B3F3001 - EPA 3550B

LCS (B3F3001-BS1)

Prepared: 06/30/2023 Analyzed: 07/03/2023

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1220	200	"	1000		122	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Timmerman 23-13

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 B3F3001 - EPA 3550B

Matrix Spike (B3F3001-MS1)	Source: Y306751-01			Prepared: 06/30/2023 Analyzed: 07/03/2023						
Diesel (C10-C28)	813	50.0	mg/kg	1000	ND	81.3	70-130			
Residual Range Organics (C28-C40)	999	200	"	1000	ND	99.9	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.8	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
Batch B3F3001 - EPA 3550B										
Matrix Spike Dup (B3F3001-MSD1)		Source: Y306751-01			Prepared: 06/30/2023 Analyzed: 07/03/2023					
Diesel (C10-C28)	968	50.0	mg/kg	1000	ND	96.8	70-130	17.5	35	
Residual Range Organics (C28-C40)	1210	200	"	1000	ND	121	70-130	18.9	35	
Surrogate: o-Terphenyl	51		"	49.8		103	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 B3F3042 - EPA 5030 (soil)

Blank (B3F3042-BLK1)

Prepared: 06/30/2023 Analyzed: 07/05/2023

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	104		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	88.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	80.5		70-130			

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Eagle Environmental Consulting, LLC
8000 W 44th Ave
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Martin C Eckert III
Project Number: [none]
Project: Noble - Timmerman 23-13

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 B3F3042 - EPA 5030 (soil)

LCS (B3F3042-BS1)

Prepared: 06/30/2023 Analyzed: 07/05/2023

1,2,4-Trimethylbenzene	0.0905	0.00200	mg/kg	0.100		90.5	70-130			
1,3,5-Trimethylbenzene	0.0922	0.00200	"	0.100		92.2	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.0890	0.00200	"	0.100		89.0	70-130			
Naphthalene	0.0747	0.00380	"	0.100		74.7	70-130			
Toluene	0.0920	0.00200	"	0.100		92.0	70-130			
o-Xylene	0.0901	0.00200	"	0.100		90.1	70-130			
m,p-Xylene	0.181	0.00400	"	0.200		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.7	70-130			

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Project: Noble - Timmerman 23-13

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 B3F3042 - EPA 5030 (soil)

Matrix Spike (B3F3042-MS1)	Source: Y306805-01			Prepared: 06/30/2023 Analyzed: 07/05/2023						
1,2,4-Trimethylbenzene	0.0893	0.00200	mg/kg	0.100	ND	89.3	70-130			
1,3,5-Trimethylbenzene	0.0884	0.00200	"	0.100	ND	88.4	70-130			
Benzene	0.0900	0.00200	"	0.100	ND	90.0	70-130			
Ethylbenzene	0.0846	0.00200	"	0.100	ND	84.6	70-130			
Naphthalene	0.0756	0.00380	"	0.100	ND	75.6	70-130			
Toluene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
o-Xylene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.2	70-130			

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 Project Number: [none]
 Project: Noble - Timmerman 23-13

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 B3F3042 - EPA 5030 (soil)

Matrix Spike Dup (B3F3042-MSD1)	Source: Y306805-01			Prepared: 06/30/2023 Analyzed: 07/05/2023						
1,2,4-Trimethylbenzene	0.0850	0.00200	mg/kg	0.100	ND	85.0	70-130	4.98	20	
1,3,5-Trimethylbenzene	0.0848	0.00200	"	0.100	ND	84.8	70-130	4.16	20	
Benzene	0.0888	0.00200	"	0.100	ND	88.8	70-130	1.36	20	
Ethylbenzene	0.0791	0.00200	"	0.100	ND	79.1	70-130	6.77	20	
Naphthalene	0.0805	0.00380	"	0.100	ND	80.5	70-130	6.36	20	
Toluene	0.0773	0.00200	"	0.100	ND	77.3	70-130	7.78	20	
o-Xylene	0.0828	0.00200	"	0.100	ND	82.8	70-130	5.04	20	
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.6	70-130	7.92	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		85.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.7	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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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 B3F3007 - Saturated Paste Metals

Blank (B3F3007-BLK1)

Prepared: 06/30/2023 Analyzed: 07/03/2023

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B3F3007-DUP1)

Source: Y306805-01

Prepared: 06/30/2023 Analyzed: 07/03/2023

SAR	0.00		SAR		1.92			200	200	
Calcium PPM	17.2	10.0	mg/L		20.0			15.4	50	
Magnesium PPM	4.83	10.0	"		5.44			11.9	50	
Sodium PPM	36.0	10.0	"		37.5			4.22	50	

Batch B3G0304 - DTPA Sorbitol Preparation

Blank (B3G0304-BLK1)

Prepared: 07/03/2023 Analyzed: 07/05/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3G0304-DUP1)

Source: Y306809-01

Prepared: 07/03/2023 Analyzed: 07/05/2023

Boron	0.376	0.0994	mg/L		0.407			7.81	50	
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Timmerman 23-13

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F3015 - Saturated Paste pH/EC										
Blank (B3F3015-BLK1)					Prepared: 06/30/2023 Analyzed: 07/01/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3F3015-DUP1)					Source: Y306805-01 Prepared: 06/30/2023 Analyzed: 07/01/2023					
Specific Conductance (EC)	0.292	0.00500	mmhos/cm		0.301			3.17	25	
pH	8.41		pH Units		8.43			0.238	25	
Batch B3G1116 - Saturated Paste pH/EC										
Duplicate (B3G1116-DUP1)					Source: Y307143-01 Prepared: 07/11/2023 Analyzed: 07/12/2023					
pH	7.36		pH Units		7.56			2.68	25	

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PAH by 8270D SIM - 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 L691186 - 3550B

MSD (L 94678-MSD-L691186)		Source: 94678			Prepared: 07/06/2023 Analyzed: 07/06/2023					
Fluoranthene	0.0833	0.00067	mg/Kg	0.164	<0.000394	50.7	30-130	12.8	30	
Pyrene	0.0802	0.00067	"	0.164	<0.000643	48.9	30-130	9.7	30	
Fluorene	0.106	0.00067	"	0.164	<0.000286	64.6	30-130	7.2	30	
Dibenz(a,h)anthracene	0.114	0.00067	"	0.164	<0.000614	69.5	30-130	3.4	30	
Chrysene	0.0961	0.00067	"	0.164	<0.000624	58.5	30-130	12.5	30	
Acenaphthene	0.0963	0.00067	"	0.164	<0.000304	58.7	30-130	5.7	30	
1-Methylnaphthalene	0.0919	0.00201	"	0.164	<0.00109	56	30-130	4.6	30	
Indeno(1,2,3-cd)pyrene	0.0724	0.00067	"	0.164	0.000638	43.7	30-130	9.7	30	
Benzo(k)fluoranthene	0.067	0.00067	"	0.164	<0.000437	40.8	30-130	29.8	30	
Anthracene	0.103	0.00067	"	0.164	<0.000334	62.8	30-130	9.2	30	
Benzo(a)anthracene	0.0949	0.00067	"	0.164	<0.000493	57.8	30-130	4.6	30	
Benzo(a)pyrene	0.108	0.00067	"	0.164	<0.000468	65.8	30-130	3.6	30	
Benzo(b)fluoranthene	0.0639	0.00067	"	0.164	<0.000585	38.9	30-130	10.5	30	
2-Methylnaphthalene	0.0954	0.00201	"	0.164	<0.00194	58.1	30-130	4.2	30	
Surrogate: 2-Fluorobiphenyl	51		"	0.329	180	51	33-115			
Surrogate: Nitrobenzene-d5	41		"	0.329	148	41	29-110			
Surrogate: 4-Terphenyl-d14	44.6		"	0.329	163	44.6	33-122			

MS (L 94678-MS-L691186)		Source: 94678			Prepared: 07/06/2023 Analyzed: 07/06/2023					
Dibenz(a,h)anthracene	0.118	0.00067	mg/Kg	0.166	<0.000614	71	30-130			
Pyrene	0.0884	0.00067	"	0.166	<0.000643	53.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0798	0.00067	"	0.166	0.000638	47.6	30-130			
Fluorene	0.114	0.00067	"	0.166	<0.000286	68.6	30-130			
Fluoranthene	0.0947	0.00067	"	0.166	<0.000394	57	30-130			
2-Methylnaphthalene	0.0995	0.00201	"	0.166	<0.00194	59.9	30-130			
Benzo(k)fluoranthene	0.0905	0.00067	"	0.166	<0.000437	54.5	30-130			
Benzo(b)fluoranthene	0.071	0.00067	"	0.166	<0.000585	42.7	30-130			

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PAH by 8270D SIM - 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 L691186 - 3550B

MS (L 94678-MS-L691186)	Source: 94678		Prepared: 07/06/2023 Analyzed: 07/06/2023							
Benzo(a)pyrene	0.112	0.00067	mg/Kg	0.166	<0.000468	67.4	30-130			
Benzo(a)anthracene	0.0994	0.00067	"	0.166	<0.000493	59.8	30-130			
Acenaphthene	0.102	0.00067	"	0.166	<0.000304	61.4	30-130			
Chrysene	0.109	0.00067	"	0.166	<0.000624	65.6	30-130			
Anthracene	0.113	0.00067	"	0.166	<0.000334	68	30-130			
1-Methylnaphthalene	0.0963	0.00201	"	0.166	<0.00109	58	30-130			
Surrogate: 4-Terphenyl-d14	47.8		"	0.332	163	47.8	33-122			
Surrogate: Nitrobenzene-d5	40.3		"	0.332	148	40.3	29-110			
Surrogate: 2-Fluorobiphenyl	50.3		"	0.332	180	50.3	33-115			

LCS (LCS-L691186)			Prepared: 07/06/2023 Analyzed: 07/06/2023							
Fluoranthene	0.1	0.00067	mg/Kg	0.167		59.8	30-130			
Fluorene	0.111	0.00067	"	0.167		66.4	30-130			
Pyrene	0.0964	0.00067	"	0.167		57.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0954	0.00067	"	0.167		57.1	30-130			
1-Methylnaphthalene	0.0913	0.00201	"	0.167		54.6	30-130			
Dibenz(a,h)anthracene	0.134	0.00067	"	0.167		80.2	30-130			
Benzo(k)fluoranthene	0.0864	0.00067	"	0.167		51.7	30-130			
Benzo(b)fluoranthene	0.0745	0.00067	"	0.167		44.6	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.167		70	30-130			
Benzo(a)anthracene	0.104	0.00067	"	0.167		62.2	30-130			
Anthracene	0.116	0.00067	"	0.167		69.4	30-130			
Acenaphthene	0.0963	0.00067	"	0.167		57.6	30-130			
2-Methylnaphthalene	0.0947	0.00201	"	0.167		56.7	30-130			
Chrysene	0.115	0.00067	"	0.167		68.8	30-130			
Surrogate: Nitrobenzene-d5	42.9		"	0.333		42.9	29-110			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L691186 - 3550B										
LCS (LCS-L691186)					Prepared: 07/06/2023 Analyzed: 07/06/2023					
Surrogate: 4-Terphenyl-d14	56.1		mg/Kg	0.333		56.1	33-122			
LRB (LRB-L691186)					Prepared: 07/06/2023 Analyzed: 07/06/2023					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	29.5		"	0.333		29.5	29-110			
Surrogate: 4-Terphenyl-d14	36.6		"	0.333		36.6	33-122			
Surrogate: 2-Fluorobiphenyl	34.2		"	0.333		34.2	33-115			

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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.

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