

November 03, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - WPF III #A18-13A

Project Number - [none]

Attached are your analytical results for Noble - WPF III #A18-13A received by Origins Laboratory, Inc. October 19, 2022. This project is associated with Origins project number Y210493-01.

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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - WPF III #A18-13A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y210493-01	Soil	October 19, 2022 12:48	10/19/2022 16:08

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - WPF III #A18-13A

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4210403

Client: Eagle Environmental  
 Client Project ID: WPF III #A18-3

Checklist Completed by: TSH/DE

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

Date/time completed: 10/20/22

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

Cooler Number/Temperature: 1, 4.0 °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 <sup>(1)</sup> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH).			X	
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.

[Signature]  
 Reviewed by (Project Manager)

10/24/22  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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 Project: Noble - WPF III #A18-13A

**WH-FS-01@6'**  
**10/19/2022 12:48:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210493-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.30		0.100	mg/L	1	B2J2509	10/25/2022	10/26/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	42.3		25.0	mg/kg	1	B2J3114	10/31/2022	10/31/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	105 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2J2518	10/25/2022	10/27/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	

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**WH-FS-01@6'**  
**10/19/2022 12:48:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210493-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	93.7 %		70-130			B2J25 18	10/25/2022	10/27/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	24.4		0.499	meq/L	10	[CALC]	10/25/2022	10/26/2022	
Magnesium	9.02		0.823	"	"	"	"	"	
Sodium	14.4		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L645224	10/26/2022	10/26/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	ND	0.00143	0.00335	"	"	"	"	"	

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**WH-FS-01@6'**  
**10/19/2022 12:48:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y210493-01 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L645224	10/26/2022	10/26/2022	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	66.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.95			pH Units	1	B2J2513	10/25/2022	10/26/2022	
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**SAR by 20B Saturated Paste**

SAR	3.52			SAR	1	B2J2506	10/25/2022	10/26/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	4.20		0.00500	mmhos/cm	1	B2J2513	10/25/2022	10/26/2022	
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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 B2J2518 - EPA 5030 (soil)**

**Blank (B2J2518-BLK1)**

Prepared: 10/25/2022 Analyzed: 10/26/2022

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	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2J2518 - EPA 5030 (soil)

**LCS (B2J2518-BS1)**

Prepared: 10/25/2022 Analyzed: 10/26/2022

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.0953	0.00380	"	0.100		95.3	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	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 B2J2518 - EPA 5030 (soil)

Matrix Spike (B2J2518-MS1)	Source: Y210562-01			Prepared: 10/25/2022 Analyzed: 10/26/2022						
1,2,4-Trimethylbenzene	0.0772	0.00200	mg/kg	0.100	ND	77.2	70-130			
1,3,5-Trimethylbenzene	0.129	0.00200	"	0.100	0.0272	102	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130			
Naphthalene	0.0184	0.00380	"	0.100	0.00252	15.9	70-130			QM-07
Toluene	0.101	0.00200	"	0.100	ND	101	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	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 B2J2518 - EPA 5030 (soil)

Matrix Spike Dup (B2J2518-MSD1)	Source: Y210562-01			Prepared: 10/25/2022 Analyzed: 10/26/2022						
1,2,4-Trimethylbenzene	0.0621	0.00200	mg/kg	0.100	ND	62.1	70-130	21.7	20	QM-07
1,3,5-Trimethylbenzene	0.132	0.00200	"	0.100	0.0272	105	70-130	2.30	20	
Benzene	0.100	0.00200	"	0.100	ND	100	70-130	2.13	20	
Ethylbenzene	0.0966	0.00200	"	0.100	ND	96.6	70-130	1.58	20	
Naphthalene	0.00604	0.00380	"	0.100	0.00252	3.52	70-130	101	20	QM-07
Toluene	0.0969	0.00200	"	0.100	ND	96.9	70-130	3.65	20	
o-Xylene	0.0980	0.00200	"	0.100	ND	98.0	70-130	2.76	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.0	70-130	8.31	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Project: Noble - WPF III #A18-13A

**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
<b>Batch B2J3114 - EPA 3580</b>										
<b>Blank (B2J3114-BLK1)</b>										
					Prepared: 10/31/2022 Analyzed: 10/31/2022					
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			

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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 B2J3114 - EPA 3580**

**LCS (B2J3114-BS1)**

Prepared: 10/31/2022 Analyzed: 10/31/2022

Diesel (C10-C28)	922	50.0	mg/kg	1000		92.2	70-130			
Residual Range Organics (C28-C40)	930	200	"	1000		93.0	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.6	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 B2J3114 - EPA 3580**

**LCS Dup (B2J3114-BSD1)**

Prepared: 10/31/2022 Analyzed: 10/31/2022

Diesel (C10-C28)	928	50.0	mg/kg	1000		92.8	70-130	0.655	35	
Residual Range Organics (C28-C40)	906	200	"	1000		90.6	70-130	2.60	35	
Surrogate: o-Terphenyl	48		"	49.8		96.4	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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**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 B2J2506 - Saturated Paste**

**Blank (B2J2506-BLK1)**

Prepared: 10/25/2022 Analyzed: 10/26/2022

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

**Duplicate (B2J2506-DUP1)**

**Source: Y210483-01**

Prepared: 10/25/2022 Analyzed: 10/26/2022

Calcium PPM	16.6	10.0	mg/L		16.7			0.210	50	
SAR	0.00		SAR		0.656			200	200	
Magnesium PPM	4.92	10.0	mg/L		4.98			1.39	50	
Sodium PPM	11.5	10.0	"		11.9			2.94	50	

**Batch B2J2509 - DTPA Sorbitol Preparation**

**Blank (B2J2509-BLK1)**

Prepared: 10/25/2022 Analyzed: 10/26/2022

Boron	ND	0.100	mg/L							
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**Duplicate (B2J2509-DUP1)**

**Source: Y210480-07**

Prepared: 10/25/2022 Analyzed: 10/26/2022

Boron	0.120	0.0988	mg/L		0.0974			20.9	50	
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**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 B2J2513 - NO PREP**

**Blank (B2J2513-BLK1)**

Prepared: 10/25/2022 Analyzed: 10/26/2022

pH	0.00		pH Units							
Specific Conductance (EC)	ND	0.00500	mmhos/cm							

**Duplicate (B2J2513-DUP1)**

**Source: Y210483-01**

Prepared: 10/25/2022 Analyzed: 10/26/2022

pH	8.58		pH Units		8.50		0.937	25		
Specific Conductance (EC)	0.186	0.00500	mmhos/cm		0.197		5.69	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 L645224 - 3550B

MSD (L 82334-MSD-L645224)		Source: 82334			Prepared: 10/26/2022 Analyzed: 10/26/2022					
1-Methylnaphthalene	0.178	0.0067	mg/Kg	0.164	4.46	NR	30-130	7	30	*
Fluorene	0.149	0.0067	"	0.164	0.561	NR	30-130	6.4	30	*
2-Methylnaphthalene	0.234	0.0067	"	0.164	<0.00645	143	30-130	4.5	30	*
Pyrene	0.139	0.0067	"	0.164	0.0767	37.9	30-130	0.7	30	
Indeno(1,2,3-cd)pyrene	0.0985	0.0067	"	0.164	<0.00627	60	30-130	32.6	30	*
Fluoranthene	0.142	0.0067	"	0.164	0.00964	80.7	30-130	13.5	30	
Dibenz(a,h)anthracene	0.1	0.0067	"	0.164	<0.00614	60.9	30-130	32.6	30	*
Chrysene	0.147	0.0067	"	0.164	0.166	NR	30-130	4	30	*
Acenaphthene	0.128	0.0067	"	0.164	0.269	NR	30-130	5.3	30	*
Naphthalene	0.136	0.0067	"	0.164	1.91	NR	30-130	2.8	30	*
Benzo(k)fluoranthene	0.112	0.0067	"	0.164	0.00663	64.2	30-130	19	30	
Anthracene	0.137	0.0067	"	0.164	<0.00334	83.5	30-130	12.4	30	
Benzo(a)anthracene	0.147	0.0067	"	0.164	0.0483	60.1	30-130	7.7	30	
Benzo(a)pyrene	0.157	0.0067	"	0.164	0.0106	89.2	30-130	6.5	30	
Benzo(b)fluoranthene	0.115	0.0067	"	0.164	0.0157	60.5	30-130	12.9	30	
Surrogate: 4-Terphenyl-d14	89.9		"	0.329	235	89.9	33-122			
Surrogate: Nitrobenzene-d5	66.2		"	0.329	306	66.2	29-110			
Surrogate: 2-Fluorobiphenyl	75.9		"	0.329	239	75.9	33-115			

MS (L 82334-MS-L645224)		Source: 82334			Prepared: 10/26/2022 Analyzed: 10/26/2022					
Chrysene	0.153	0.0067	mg/Kg	0.163	0.166	NR	30-130			*
Acenaphthene	0.135	0.0067	"	0.163	0.269	NR	30-130			*
Naphthalene	0.14	0.0067	"	0.163	1.91	NR	30-130			*
Indeno(1,2,3-cd)pyrene	0.137	0.0067	"	0.163	<0.00627	84	30-130			
Fluorene	0.159	0.0067	"	0.163	0.561	NR	30-130			*
Fluoranthene	0.124	0.0067	"	0.163	0.00964	70.1	30-130			
Dibenz(a,h)anthracene	0.139	0.0067	"	0.163	<0.00614	85.2	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - WPF III #A18-13A

**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 L645224 - 3550B**

MS (L 82334-MS-L645224)	Source: 82334			Prepared: 10/26/2022 Analyzed: 10/26/2022						
Pyrene	0.138	0.0067	mg/Kg	0.163	0.0767	37.6	30-130			
Benzo(a)anthracene	0.136	0.0067	"	0.163	0.0483	53.8	30-130			
1-Methylnaphthalene	0.191	0.0067	"	0.163	4.46	NR	30-130			*
Benzo(k)fluoranthene	0.0925	0.0067	"	0.163	0.00663	52.6	30-130			
2-Methylnaphthalene	0.245	0.0067	"	0.163	<0.00645	150	30-130			*
Anthracene	0.121	0.0067	"	0.163	<0.00334	74.2	30-130			
Benzo(a)pyrene	0.147	0.0067	"	0.163	0.0106	83.6	30-130			
Benzo(b)fluoranthene	0.101	0.0067	"	0.163	0.0157	52.3	30-130			
Surrogate: Nitrobenzene-d5	73.3		"	0.326	306	73.3	29-110			
Surrogate: 2-Fluorobiphenyl	80.3		"	0.326	239	80.3	33-115			
Surrogate: 4-Terphenyl-d14	71.1		"	0.326	235	71.1	33-122			

LCS (LCS-L645224)	Prepared: 10/26/2022 Analyzed: 10/26/2022									
1-Methylnaphthalene	0.148	0.00067	mg/Kg	0.167		88.6	30-130			
Chrysene	0.143	0.00067	"	0.167		85.6	30-130			
Pyrene	0.149	0.00067	"	0.167		89.2	30-130			
Naphthalene	0.127	0.00067	"	0.167		76	30-130			
Indeno(1,2,3-cd)pyrene	0.138	0.00067	"	0.167		82.6	30-130			
Fluorene	0.125	0.00067	"	0.167		74.8	30-130			
Fluoranthene	0.147	0.00067	"	0.167		88	30-130			
Dibenz(a,h)anthracene	0.146	0.00067	"	0.167		87.4	30-130			
Benzo(b)fluoranthene	0.164	0.00067	"	0.167		98.2	30-130			
Benzo(a)pyrene	0.163	0.00067	"	0.167		97.6	30-130			
Benzo(a)anthracene	0.151	0.00067	"	0.167		90.4	30-130			
Anthracene	0.147	0.00067	"	0.167		88	30-130			
Acenaphthene	0.139	0.00067	"	0.167		83.2	30-130			
2-Methylnaphthalene	0.143	0.00067	"	0.167		85.6	30-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - WPF III #A18-13A

**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
<b>Batch L645224 - 3550B</b>										
<b>LCS (LCS-L645224)</b>					Prepared: 10/26/2022 Analyzed: 10/26/2022					
Benzo(k)fluoranthene	0.141	0.00067	mg/Kg	0.167		84.4	30-130			
Surrogate: Nitrobenzene-d5	82.2		"	0.333		82.2	29-110			
Surrogate: 4-Terphenyl-d14	117		"	0.333		117	33-122			
Surrogate: 2-Fluorobiphenyl	96.3		"	0.333		96.3	33-115			
<b>LRB (LRB-L645224)</b>					Prepared: 10/26/2022 Analyzed: 10/26/2022					
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	"				-			
Naphthalene	0.000529	0.00067	"				-			J
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	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	0.00157	0.00067	"				-			*
1-Methylnaphthalene	0.000649	0.00067	"				-			J
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	90		"	0.333		90	29-110			
Surrogate: 4-Terphenyl-d14	106		"	0.333		106	33-122			
Surrogate: 2-Fluorobiphenyl	81.9		"	0.333		81.9	33-115			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - WPF III #A18-13A

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**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.

J Estimated Value. Analyte below reported quantitation limit.

\* 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.

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