



November 10, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Easton #12-1

Project Number - -

Attached are your analytical results for Noble - Easton #12-1 received by Origins Laboratory, Inc. October 26, 2022. This project is associated with Origins project number Y210664-01.

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

Martin C Eckert III  
Project Number: -  
Project: Noble - Easton #12-1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y210664-01	Soil	October 26, 2022 12:08	10/26/2022 15:30

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

# ORIGINS LABORATORY, INC

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

Martin C Eckert III  
Project Number: -  
Project: Noble - Easton #12-1

# ORIGINS LABORATORY, INC

4210664

page 1 of 1

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303.265.9645  
Email Address: Trace@origins-lab.com

Project Manager: Martin Eckert III  
Project Name: Easton #12-1  
Project Number: -  
Samples Collected By: GK

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analyst	Sample Instructions
MILES 100	10/16/22	11:08	2	Unpreserved	Soil	X	E <sub>2</sub> SAM (H by 1)
				HCl	Soil	X	Substrate (H by 2)
				HNO <sub>3</sub>	Soil	X	MDS (H by 3)
				Other	Soil	X	
				Groundwater	Soil	X	
				Other	Soil	X	
				Unpreserved	Soil	X	
				HCl	Soil	X	
				HNO <sub>3</sub>	Soil	X	
				Other	Soil	X	
				Groundwater	Soil	X	
				Other	Soil	X	
				Unpreserved	Soil	X	
				HCl	Soil	X	
				HNO <sub>3</sub>	Soil	X	
				Other	Soil	X	
				Groundwater	Soil	X	
				Other	Soil	X	
				Unpreserved	Soil	X	
				HCl	Soil	X	
				HNO <sub>3</sub>	Soil	X	
				Other	Soil	X	
				Groundwater	Soil	X	
				Other	Soil	X	
				Unpreserved	Soil	X	
				HCl	Soil	X	
				HNO <sub>3</sub>	Soil	X	
				Other	Soil	X	
				Groundwater	Soil	X	
				Other	Soil	X	
				Unpreserved	Soil	X	
				HCl	Soil	X	
				HNO <sub>3</sub>	Soil	X	
				Other	Soil	X	
				Groundwater	Soil	X	
				Other	Soil	X	
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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Noble - Easton #12-1

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

**Sample Receipt Checklist**

Origins Work Order: 4210664 Client: Eagle  
Client Project ID: Easton #12-1


Checklist Completed by: EHS/DE Shipped Via: HD  
Date/time completed: 1/27/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: NA

Matrix(s) Received: (Check all that apply)  Soil/Solid  Water  Other \_\_\_\_\_  
Cooler Number/Temperature: 1 10.6 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to -6°C <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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			X	
<b>Additional Comments (if any):</b>				

<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: JB (Project Manager) Date/Time Reviewed: 10-28-22

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Jordan A. Bynon, Project Manager

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 Project Number: -  
 Project: Noble - Easton #12-1

**WH-FS-01@6'**  
**10/26/2022 12:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210664-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.435		0.100	mg/L	1	B2J2805	10/28/2022	10/31/2022	
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**DRO/ORO by EPA 8015D**


Diesel (C10-C28)	25.1		25.0	mg/kg	1	B2J2810	10/28/2022	11/02/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.9%		50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2J2730	10/27/2022	11/08/2022	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	104%		70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	96.9%		70-130	"	"	"	"	"	"

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**WH-FS-01@6'**  
**10/26/2022 12:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210664-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	88.0 %		70-130			B2J27 30	10/27/2022	11/08/2022	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.42		0.499	meq/L	10	[CALC]	10/28/2022	11/01/2022	
Magnesium	1.56		0.823	"	"	"	"	"	
Sodium	1.58		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00168	0.000364	0.00067	mg/Kg	1	L646023	10/31/2022	11/01/2022	
2-Methylnaphthalene	0.00224	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000919	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000905	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00121	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000609	0.000394	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.000881	0.000627	0.00067	"	"	"	"	"	

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**WH-FS-01@6'**  
**10/26/2022 12:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y210664-01 (Soil)**

**PAH by 8270D SIM**

Naphthalene	0.000801	0.000484	0.00067	mg/Kg	1	L646023	10/31/2022	11/01/2022	
Pyrene	0.00145	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	52 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	41.4 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	8.34			pH Units	1	B2J3108	10/31/2022	11/01/2022	
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**SAR by 20B Saturated Paste**

SAR	1.12			SAR	1	B2J2806	10/28/2022	11/01/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.626		0.00500	mmhos/cm	1	B2J3108	10/31/2022	11/01/2022	
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 Project: Noble - Easton #12-1

**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 B2J2730 - EPA 5030 (soil)

Blank (B2J2730-BLK1)

Prepared: 10/27/2022 Analyzed: 11/05/2022

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	0.10		"	0.125		82.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Jordan A. Bynon, Project Manager



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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 B2J2730 - EPA 5030 (soil)

LCS (B2J2730-BS1)

Prepared: 10/27/2022 Analyzed: 11/05/2022

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.0877	0.00200	"	0.100		87.7	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.0984	0.00380	"	0.100		98.4	70-130			
Toluene	0.0983	0.00200	"	0.100		98.3	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.212	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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Jordan A. Bynon, Project Manager



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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 B2J2730 - EPA 5030 (soil)

Matrix Spike (B2J2730-MS1)

Source: Y210655-01

Prepared: 10/27/2022 Analyzed: 11/05/2022

1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100	ND	115	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.0858	0.00200	"	0.100	ND	85.8	70-130			
Ethylbenzene	0.120	0.00200	"	0.100	ND	120	70-130			
Naphthalene	0.105	0.00380	"	0.100	ND	105	70-130			
Toluene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130			
m,p-Xylene	0.238	0.00400	"	0.200	0.000500	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Easton #12-1

**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 B2J2730 - EPA 5030 (soil)

Matrix Spike Dup (B2J2730-MSD1)

Source: Y210655-01

Prepared: 10/27/2022 Analyzed: 11/05/2022

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	12.1	20	
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	12.9	20	
Benzene	0.0848	0.00200	"	0.100	ND	84.8	70-130	1.10	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	13.6	20	
Naphthalene	0.0993	0.00380	"	0.100	ND	99.3	70-130	5.75	20	
Toluene	0.0936	0.00200	"	0.100	ND	93.6	70-130	2.38	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	13.0	20	
m,p-Xylene	0.208	0.00400	"	0.200	0.000500	104	70-130	13.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Easton #12-1

**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 B2J2810 - EPA 3550B

Blank (B2J2810-BLK1)

Prepared: 10/28/2022 Analyzed: 11/01/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.4	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Easton #12-1

**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 B2J2810 - EPA 3550B

LCS (B2J2810-BS1)

Prepared: 10/28/2022 Analyzed: 11/01/2022

Diesel (C10-C28)	836	50.0	mg/kg	1000		83.6	70-130			
Residual Range Organics (C28-C40)	821	200	"	1000		82.1	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.0	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Easton #12-1

**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 B2J2810 - EPA 3550B

Matrix Spike (B2J2810-MS1)

Source: Y210647-01

Prepared: 10/28/2022 Analyzed: 11/01/2022

Diesel (C10-C28)	1170	50.0	mg/kg	1000	83.3	109	70-130			
Residual Range Organics (C28-C40)	975	200	"	1000	ND	97.5	70-130			
Surrogate: o-Terphenyl	46		"	49.8		91.8	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, Inc.  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Easton #12-1

**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 B2J2810 - EPA 3550B

Matrix Spike Dup (B2J2810-MSD1)

Source: Y210647-01

Prepared: 10/28/2022 Analyzed: 11/01/2022

Diesel (C10-C28)	1170	50.0	mg/kg	1000	83.3	109	70-130	0.128	35	
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130	0.366	35	
Surrogate: o-Terphenyl	45		"	49.8		89.6	50-150			

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 Wheat Ridge CO 80033

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 Project: Noble - Easton #12-1

**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 B2J2805 - DTPA Sorbitol Preparation**

**Blank (B2J2805-BLK1)**

Prepared: 10/28/2022 Analyzed: 10/31/2022

Boron ND 0.100 mg/L

**Duplicate (B2J2805-DUP1)**

**Source: Y210655-01**

Prepared: 10/28/2022 Analyzed: 10/31/2022

Boron 0.0981 0.0991 mg/L

0.114 15.2 50

**Batch B2J2806 - Saturated Paste Metals**

**Blank (B2J2806-BLK1)**

Prepared: 10/28/2022 Analyzed: 11/01/2022

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

**Duplicate (B2J2806-DUP1)**

**Source: Y210648-01**

Prepared: 10/28/2022 Analyzed: 11/01/2022

Calcium PPM 31.6 10.0 mg/L 66.1 70.6 50 QR-DUP

SAR 0.00 SAR 0.201 200 200

Magnesium PPM 6.07 10.0 mg/L 12.0 65.7 50 QR-DUP

Sodium PPM 4.86 10.0 " 6.75 32.6 50

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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Easton #12-1

**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 B2J3108 - NO PREP**

**Blank (B2J3108-BLK1)**

Prepared: 10/31/2022 Analyzed: 11/01/2022

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B2J3108-DUP1)**

**Source: Y210648-01**

Prepared: 10/31/2022 Analyzed: 11/01/2022

pH	7.37		pH Units		7.79		5.54	25		
Specific Conductance (EC)	0.349	0.00500	mmhos/cm		0.483		32.2	25	QR-DUP	

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, Inc.  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Easton #12-1

**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 L646023 - 3550B**

**MSD (L 84127-MSD-L646023)**

**Source: 84127**

Prepared: 10/31/2022 Analyzed: 11/01/2022

2-Methylnaphthalene	0.327	0.00067	mg/Kg	0.164	0.357	NR	30-130	14.4	30	*
Fluorene	0.162	0.00067	"	0.164	0.101	37.1	30-130	20	30	
Pyrene	0.0792	0.00067	"	0.164	0.00859	43	30-130	35.1	30	*
Indeno(1,2,3-cd)pyrene	0.0971	0.00067	"	0.164	0.000737	58.7	30-130	34.7	30	*
Fluoranthene	0.0705	0.00067	"	0.164	0.0038	40.6	30-130	40.2	30	*
Dibenz(a,h)anthracene	0.11	0.00067	"	0.164	0.00122	66.3	30-130	33.3	30	*
Chrysene	0.0928	0.00067	"	0.164	0.0176	45.8	30-130	34.8	30	*
Naphthalene	0.171	0.00067	"	0.164	0.155	9.7	30-130	23.2	30	*
1-Methylnaphthalene	0.41	0.00067	"	0.164	0.433	NR	30-130	19.3	30	*
Benzo(k)fluoranthene	0.0504	0.00067	"	0.164	0.00109	30	30-130	36.8	30	*
Acenaphthene	0.0935	0.00067	"	0.164	0.0307	38.2	30-130	25.6	30	
Anthracene	0.0334	0.00067	"	0.164	0.000372	20.1	30-130	30.8	30	*
Benzo(a)anthracene	0.0901	0.00067	"	0.164	0.00352	52.7	30-130	30	30	*
Benzo(a)pyrene	0.108	0.00067	"	0.164	0.00158	64.8	30-130	36.3	30	*
Benzo(b)fluoranthene	0.0728	0.00067	"	0.164	0.00201	43.1	30-130	39.8	30	*
Surrogate: 2-Fluorobiphenyl	39.6		"	0.328	117	39.6	33-115			
Surrogate: Nitrobenzene-d5	42.3		"	0.328	151	42.3	29-110			
Surrogate: 4-Terphenyl-d14	46		"	0.328	157	46	33-122			

**MS (L 84127-MS-L646023)**

**Source: 84127**

Prepared: 10/31/2022 Analyzed: 11/01/2022

Benzo(k)fluoranthene	0.0732	0.00067	mg/Kg	0.162	0.00109	44.5	30-130			
Acenaphthene	0.121	0.00067	"	0.162	0.0307	55.7	30-130			
Naphthalene	0.216	0.00067	"	0.162	0.155	37.6	30-130			
Indeno(1,2,3-cd)pyrene	0.138	0.00067	"	0.162	0.000737	84.7	30-130			
Fluorene	0.198	0.00067	"	0.162	0.101	59.8	30-130			
Fluoranthene	0.106	0.00067	"	0.162	0.0038	63	30-130			
Dibenz(a,h)anthracene	0.154	0.00067	"	0.162	0.00122	94.3	30-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Easton #12-1

**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 L646023 - 3550B**

**MS (L 84127-MS-L646023)**

**Source: 84127**

Prepared: 10/31/2022 Analyzed: 11/01/2022

Chrysene	0.132	0.00067	mg/Kg	0.162	0.0176	70.6	30-130			
1-Methylnaphthalene	0.498	0.00067	"	0.162	0.433	40.1	30-130			
Benzo(a)pyrene	0.156	0.00067	"	0.162	0.00158	95.3	30-130			
Anthracene	0.0456	0.00067	"	0.162	0.000372	27.9	30-130			*
Pyrene	0.113	0.00067	"	0.162	0.00859	64.4	30-130			
2-Methylnaphthalene	0.378	0.00067	"	0.162	0.357	12.9	30-130			*
Benzo(b)fluoranthene	0.109	0.00067	"	0.162	0.00201	66	30-130			
Benzo(a)anthracene	0.122	0.00067	"	0.162	0.00352	73.1	30-130			
Surrogate: Nitrobenzene-d5	74.1		"	0.325	151	74.1	29-110			
Surrogate: 4-Terphenyl-d14	80.9		"	0.325	157	80.9	33-122			
Surrogate: 2-Fluorobiphenyl	64.6		"	0.325	117	64.6	33-115			

**LCS (LCS-L646023)**

Prepared: 10/31/2022 Analyzed: 11/01/2022

Chrysene	0.0909	0.00067	mg/Kg	0.167		54.4	30-130			
Dibenz(a,h)anthracene	0.0743	0.00067	"	0.167		44.4	30-130			
Fluoranthene	0.0943	0.00067	"	0.167		56.4	30-130			
Fluorene	0.0803	0.00067	"	0.167		48	30-130			
Indeno(1,2,3-cd)pyrene	0.07	0.00067	"	0.167		41.9	30-130			
Naphthalene	0.0775	0.00067	"	0.167		46.4	30-130			
Benzo(k)fluoranthene	0.0863	0.00067	"	0.167		51.6	30-130			
Pyrene	0.0947	0.00067	"	0.167		56.7	30-130			
Benzo(a)pyrene	0.105	0.00067	"	0.167		62.8	30-130			
Benzo(a)anthracene	0.0932	0.00067	"	0.167		55.8	30-130			
Anthracene	0.0898	0.00067	"	0.167		53.7	30-130			
Acenaphthene	0.0825	0.00067	"	0.167		49.4	30-130			
2-Methylnaphthalene	0.086	0.00067	"	0.167		51.4	30-130			
1-Methylnaphthalene	0.0852	0.00067	"	0.167		51	30-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Easton #12-1

**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 L646023 - 3550B**

**LCS (LCS-L646023)**

Prepared: 10/31/2022 Analyzed: 11/01/2022

Benzo(b)fluoranthene	0.098	0.00067	mg/Kg	0.167		58.6	30-130			
Surrogate: Nitrobenzene-d5	44.1		"	0.333		44.1	29-110			
Surrogate: 4-Terphenyl-d14	59.4		"	0.333		59.4	33-122			
Surrogate: 2-Fluorobiphenyl	54		"	0.333		54	33-115			

**LRB (LRB-L646023)**

Prepared: 10/31/2022 Analyzed: 11/01/2022

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	ND	0.00067	"				-			
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	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	47.1		"	0.333		47.1	29-110			
Surrogate: 4-Terphenyl-d14	60.9		"	0.333		60.9	33-122			
Surrogate: 2-Fluorobiphenyl	52.5		"	0.333		52.5	33-115			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
Project Number: -  
Project: Noble - Easton #12-1

## Notes and Definitions

- U Sample is Non-Detect.
  - QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
  - 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.

Origins Laboratory, Inc.



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