



April 15, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Dinner #6-34

Project Number - 425777561

Attached are your analytical results for Noble - Dinner #6-34 received by Origins Laboratory, Inc. April 08, 2021. This project is associated with Origins project number Y104141-01.

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: 425777561  
Project: Noble - Dinner #6-34

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WV-SS-01@3'	Y104141-01	Soil	April 5, 2021 11:45	04/08/2021 15:05
WV-FS-01@6'	Y104141-02	Soil	April 5, 2021 11:50	04/08/2021 15:05

Origins Laboratory, Inc.



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 Project Number: 425777561  
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www.originslaboratory.com

Y104141

**ORIGINS**  
 LABORATORY, INC

page | of |

Client: Eagle Environmental Consulting  
 Address: 8000 W. 44th Ave  
 Telephone Number: (303) 432-5479  
 Email Address: m.c.eckert@origins-lab.com  
 Project Manager: Martin Eckert III  
 Project Name: DINNER #16-34  
 Project Number: ---  
 Samples Collected By: VIM/AB

Fax: 303.265.9645 | Phone: 303.433.1322

Sample ID Description	Date Sampled	Time Sampled	# of Containers			Preservative			Matrix			Analysis	Sample Instructions	
			Unpreserved	HCl	HNO <sub>3</sub>	Groundwater	Soil	At Summa #	Other	Other	Other			
WV-SS-01 P-3'	4/8/21	1145	3	X				X				GC-MS, TMS DEC. 2010 PAT'S BOTO 2 BOTO PAT'S GC-MS, TMS GC-MS, TMS	1 W. S.M. pH =	
WV-ES-01 P-6'	4/8/21	1150	3	7				X					X	3 Saturated Dist. Prep
														4
														5
														6
														7
														8
														9
														10

Relinquished By: [Signature] Date: 4/8/21 Time: 1505  
 Relinquished By: [Signature] Date: 4/8/21 Time: 1505

Received By: [Signature] Date: 4/8/21 Time: 1505  
 Received By: [Signature] Date: 4/8/21 Time: 1505

Turnaround Time: Same Day  24 Hr   
 48 Hr  72 Hr   
 Standard

Temp Received: 4.2 Date Results Needed: 4/16/21

Origins Laboratory, Inc.

*[Signature]*

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Martin C Eckert III  
 Project Number: 425777561  
 Project: Noble - Dinner #6-34

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y104141

Client: Eagle  
 Client Project ID: Noble-Dinner

Checklist Completed by: Jm  
 Date/time completed: 4-8-21

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: Y104

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

Cooler Number/Temperature: 142 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

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

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

Reviewed by: Jm (Project Manager) Date/Time Reviewed: 4-9-21

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425777561  
 Project: Noble - Dinner #6-34

**WV-SS-01@3'**  
**4/5/2021 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y104141-01 (Soil)**

**Boron (Sorbitol)**

Boron	0.1			mg/L	1	[none]	04/12/2021	04/14/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1D0909	04/09/2021	04/09/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	57.5 %		50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1D0908	04/09/2021	04/09/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
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**WV-SS-01@3'**  
**4/5/2021 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y104141-01 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	99.9 %		70-130			B1D09 08	04/09/2021	04/09/2021	
Surrogate: 4-Bromofluorobenzene	98.1 %		70-130			"	"	"	

**Metals (Saturated Paste Prep)**

Calcium	1.31			me/L	1	[none]	04/12/2021	04/14/2021	
Magnesium	0.45			"	"	"	"	"	
Sodium	0.29			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L546692	"	04/12/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

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**WV-SS-01@3'**  
**4/5/2021 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y104141-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L546692	04/12/2021	04/12/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	57.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	56.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	64.1 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	7.15			pH Units	1	B1D1214	04/12/2021	04/12/2021	
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**SAR by 20B Saturated Paste**

SAR	0.31				1	[none]	04/12/2021	04/14/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.237		0.00500	mmhos/cm	1	B1D1215	04/12/2021	04/12/2021	
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**WV-FS-01@6'**  
**4/5/2021 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y104141-02 (Soil)**

**Boron (Sorbitol)**

Boron	0.4			mg/L	1	[none]	04/12/2021	04/14/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1D0909	04/09/2021	04/09/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.8 %		50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1D0908	04/09/2021	04/12/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
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**WV-FS-01@6'**  
**4/5/2021 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y104141-02 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	95.7 %		70-130			B1D09 08	04/09/2021	04/12/2021	
Surrogate: 4-Bromofluorobenzene	96.6 %		70-130			"	"	"	

**Metals (Saturated Paste Prep)**

Calcium	1.70			me/L	1	[none]	04/12/2021	04/14/2021	
Magnesium	0.84			"	"	"	"	"	
Sodium	0.78			"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00286	0.00048	0.00067	mg/Kg	1	L546692	"	04/12/2021	
2-Methylnaphthalene	0.00427	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	0.000505	0.000426	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000318	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00304	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.000874	0.000501	0.00067	"	"	"	"	"	

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**WV-FS-01@6'**  
**4/5/2021 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y104141-02 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L546692	04/12/2021	04/12/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	<b>0.00144</b>	<b>0.000387</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	66.2 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	<b>6.45</b>			pH Units	1	B1D1214	04/12/2021	04/12/2021	
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**SAR by 20B Saturated Paste**

SAR	<b>0.69</b>				1	[none]	04/12/2021	04/14/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.409</b>		0.00500	mmhos/cm	1	B1D1215	04/12/2021	04/12/2021	
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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 B1D0908 - EPA 5030 (soil)**

**Blank (B1D0908-BLK1)**

Prepared: 04/09/2021 Analyzed: 04/09/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.4		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.7		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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**Batch B1D0908 - EPA 5030 (soil)**

**LCS (B1D0908-BS1)**

Prepared: 04/09/2021 Analyzed: 04/09/2021

1,2,4-Trimethylbenzene	0.0572	0.00200	mg/kg	0.0500		114	70-130			
Naphthalene	0.0559	0.0100	"	0.0500		112	70-130			
1,3,5-Trimethylbenzene	0.0570	0.00200	"	0.0500		114	70-130			
Benzene	0.0539	0.00200	"	0.0500		108	70-130			
Ethylbenzene	0.0554	0.00200	"	0.0500		111	70-130			
m,p-Xylene	0.110	0.00400	"	0.100		110	70-130			
o-Xylene	0.0567	0.00200	"	0.0500		113	70-130			
Toluene	0.0531	0.00200	"	0.0500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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 B1D0908 - EPA 5030 (soil)

Matrix Spike (B1D0908-MS1)	Source: Y104141-01			Prepared: 04/09/2021 Analyzed: 04/09/2021						
1,2,4-Trimethylbenzene	0.0579	0.00200	mg/kg	0.0500	ND	116	70-130			
Naphthalene	0.0607	0.0100	"	0.0500	ND	121	70-130			
1,3,5-Trimethylbenzene	0.0565	0.00200	"	0.0500	ND	113	70-130			
Benzene	0.0534	0.00200	"	0.0500	ND	107	70-130			
Ethylbenzene	0.0551	0.00200	"	0.0500	ND	110	70-130			
m,p-Xylene	0.110	0.00400	"	0.100	ND	110	70-130			
o-Xylene	0.0545	0.00200	"	0.0500	ND	109	70-130			
Toluene	0.0528	0.00200	"	0.0500	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	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 B1D0908 - EPA 5030 (soil)

Matrix Spike Dup (B1D0908-MSD1)	Source: Y104141-01			Prepared: 04/09/2021 Analyzed: 04/09/2021						
1,2,4-Trimethylbenzene	0.0545	0.00200	mg/kg	0.0500	ND	109	70-130	5.94	20	
Naphthalene	0.0578	0.0100	"	0.0500	ND	116	70-130	4.86	20	
1,3,5-Trimethylbenzene	0.0537	0.00200	"	0.0500	ND	107	70-130	4.97	20	
Benzene	0.0515	0.00200	"	0.0500	ND	103	70-130	3.59	20	
Ethylbenzene	0.0569	0.00200	"	0.0500	ND	114	70-130	3.32	20	
m,p-Xylene	0.115	0.00400	"	0.100	ND	115	70-130	3.99	20	
o-Xylene	0.0582	0.00200	"	0.0500	ND	116	70-130	6.56	20	
Toluene	0.0509	0.00200	"	0.0500	ND	102	70-130	3.66	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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

Martin C Eckert III  
 Project Number: 425777561  
 Project: Noble - Dinner #6-34

**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 B1D0909 - EPA 3550B</b>										
<b>Blank (B1D0909-BLK1)</b>										
					Prepared: 04/09/2021 Analyzed: 04/09/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	25.0		73.8	50-150			

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Martin C Eckert III  
 Project Number: 425777561  
 Project: Noble - Dinner #6-34

**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 B1D0909 - EPA 3550B**

**LCS (B1D0909-BS1)**

Prepared: 04/09/2021 Analyzed: 04/09/2021

Diesel (C10-C28)	928	50.0	mg/kg	1000		92.8	70-130			
Residual Range Organics (C28-C40)	885	200	"	1000		88.5	70-130			
Surrogate: o-Terphenyl	39		"	50.0		78.1	50-150			

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Eagle Environmental Consulting, Inc.  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425777561  
 Project: Noble - Dinner #6-34

**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 B1D0909 - EPA 3550B**

<b>Matrix Spike (B1D0909-MS1)</b>	<b>Source: Y104141-01</b>			Prepared: 04/09/2021 Analyzed: 04/09/2021						
Diesel (C10-C28)	930	50.0	mg/kg	1000	ND	93.0	70-130			
Residual Range Organics (C28-C40)	879	200	"	1000	ND	87.9	70-130			
Surrogate: o-Terphenyl	37		"	50.0		74.7	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425777561  
 Project: Noble - Dinner #6-34

**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
<b>Batch B1D0909 - EPA 3550B</b>										
<b>Matrix Spike Dup (B1D0909-MSD1)</b>		<b>Source: Y104141-01</b>			Prepared: 04/09/2021 Analyzed: 04/09/2021					
Diesel (C10-C28)	867	50.0	mg/kg	1000	ND	86.7	70-130	6.96	35	
Residual Range Organics (C28-C40)	812	200	"	1000	ND	81.2	70-130	7.83	35	
Surrogate: o-Terphenyl	34		"	50.0		68.4	50-150			

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 Project Number: 425777561  
 Project: Noble - Dinner #6-34

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L546692 - 3550B**

<b>MSD (L 90165-MSD-L546692)</b>		<b>Source: 90165</b>			Prepared: 04/12/2021 Analyzed: 04/12/2021					
Chrysene	0.147	0.000256	mg/Kg	0.162	0.0307	71.7	30-130	10.7	30	
1-Methylnaphthalene	0.109	0.00048	"	0.162	0.000714	66.8	30-130	2.7	30	
2-Methylnaphthalene	0.104	0.000542	"	0.162	0.00208	62.9	30-130	2.9	30	
Acenaphthene	0.107	0.000431	"	0.162	0.00765	61.3	30-130	2.8	30	
Anthracene	0.135	0.000426	"	0.162	0.0202	70.8	30-130	7.6	30	
Benzo(a)anthracene	0.186	0.000441	"	0.162	0.0555	80.5	30-130	11.9	30	
Pyrene	0.299	0.000387	"	0.162	0.194	64.8	30-130	30.4	30	
Naphthalene	0.0982	0.000467	"	0.162	90165	60.6	30-130	2.1	30	
Indeno(1,2,3-cd)pyrene	0.1	0.000344	"	0.162	0.00952	55.8	30-130	10.3	30	
Fluorene	0.122	0.000501	"	0.162	0.013	67.2	30-130	5	30	
Fluoranthene	0.221	0.000529	"	0.162	0.129	56.7	30-130	24.9	30	
Dibenz(a,h)anthracene	0.0941	0.000279	"	0.162	0.00288	56.3	30-130	7.2	30	
Benzo(b)fluoranthene	0.127	0.000138	"	0.162	0.0375	55.2	30-130	9.9	30	
Benzo(k)fluoranthene	0.112	0.000486	"	0.162	0.0149	59.9	30-130	15.2	30	
Benzo(a)pyrene	0.169	0.000133	"	0.162	0.0323	84.3	30-130	8.6	30	
Surrogate: 2-Fluorobiphenyl	48.3		"	0.325	155	48.3	33-115			
Surrogate: 4-Terphenyl-d14	61.2		"	0.325	198	61.2	33-122			
Surrogate: Nitrobenzene-d5	61.2		"	0.325	182	61.2	29-110			

<b>MS (L 90165-MS-L546692)</b>		<b>Source: 90165</b>			Prepared: 04/12/2021 Analyzed: 04/12/2021					
Benzo(a)pyrene	0.155	0.000133	mg/Kg	0.163	0.0323	75.2	30-130			
Chrysene	0.132	0.000256	"	0.163	0.0307	62.1	30-130			
Pyrene	0.22	0.000387	"	0.163	0.194	15.9	30-130			*
Naphthalene	0.0961	0.000467	"	0.163	90165	58.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0902	0.000344	"	0.163	0.00952	49.4	30-130			
Fluorene	0.116	0.000501	"	0.163	0.013	63.1	30-130			
Fluoranthene	0.172	0.000529	"	0.163	0.129	26.3	30-130			*

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: 425777561  
 Project: Noble - Dinner #6-34

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L546692 - 3550B**

MS (L 90165-MS-L546692)	Source: 90165			Prepared: 04/12/2021 Analyzed: 04/12/2021						
Dibenz(a,h)anthracene	0.0875	0.000279	mg/Kg	0.163	0.00288	51.9	30-130			
Benzo(b)fluoranthene	0.115	0.000138	"	0.163	0.0375	47.5	30-130			
Benzo(a)anthracene	0.165	0.000441	"	0.163	0.0555	67.1	30-130			
Anthracene	0.125	0.000426	"	0.163	0.0202	64.2	30-130			
Acenaphthene	0.104	0.000431	"	0.163	0.00765	59.1	30-130			
2-Methylnaphthalene	0.101	0.000542	"	0.163	0.00208	60.6	30-130			
Benzo(k)fluoranthene	0.0961	0.000486	"	0.163	0.0149	49.8	30-130			
1-Methylnaphthalene	0.106	0.00048	"	0.163	0.000714	64.5	30-130			
Surrogate: Nitrobenzene-d5	57.4		"	0.327	182	57.4	29-110			
Surrogate: 2-Fluorobiphenyl	46.4		"	0.327	155	46.4	33-115			
Surrogate: 4-Terphenyl-d14	58.4		"	0.327	198	58.4	33-122			

LCS (LCS-L546692)	Prepared: 04/12/2021 Analyzed: 04/12/2021									
Dibenz(a,h)anthracene	0.0886	0.000279	mg/Kg	0.167		53	30-130			
Fluoranthene	0.11	0.000529	"	0.167		65.8	30-130			
Pyrene	0.105	0.000387	"	0.167		62.8	30-130			
Fluorene	0.115	0.000501	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0862	0.000344	"	0.167		51.6	30-130			
Chrysene	0.113	0.000256	"	0.167		67.6	30-130			
Naphthalene	0.102	0.000467	"	0.167		61	30-130			
Benzo(b)fluoranthene	0.0976	0.000138	"	0.167		58.4	30-130			
Benzo(a)pyrene	0.133	0.000133	"	0.167		79.6	30-130			
Benzo(a)anthracene	0.126	0.000441	"	0.167		75.4	30-130			
Acenaphthene	0.105	0.000431	"	0.167		62.8	30-130			
2-Methylnaphthalene	0.108	0.000542	"	0.167		64.6	30-130			
1-Methylnaphthalene	0.107	0.00048	"	0.167		64	30-130			
Anthracene	0.114	0.000426	"	0.167		68.2	30-130			

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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L546692 - 3550B**

**LCS (LCS-L546692)**

Prepared: 04/12/2021 Analyzed: 04/12/2021

Benzo(k)fluoranthene	0.09	0.000486	mg/Kg	0.167		53.8	30-130			
Surrogate: Nitrobenzene-d5	60		"	0.333		60	29-110			
Surrogate: 4-Terphenyl-d14	57.6		"	0.333		57.6	33-122			
Surrogate: 2-Fluorobiphenyl	55.2		"	0.333		55.2	33-115			

**LRB (LRB-L546692)**

Prepared: 04/12/2021 Analyzed: 04/12/2021

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	63.3		"	0.333		63.3	29-110			
Surrogate: 4-Terphenyl-d14	62.1		"	0.333		62.1	33-122			
Surrogate: 2-Fluorobiphenyl	57		"	0.333		57	33-115			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

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**Notes and Definitions**

- U Sample is Non-Detect.
- 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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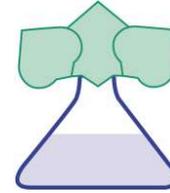
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# American Agricultural Laboratory, Inc.

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www.AmAgLab.com



95029

ORIGINS LABORATORY INC

1725 ELK PLACE

DENVER CO 80211

NAME : ORIGINS

DATE RECEIVED: 04/12/2021

DATE REPORTED: 04/14/2021

## SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS						
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm		
3331149	Y104141	01	0-8														
3331150	Y104141	02	0-8														

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION						
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na	
3331149										0.1								
3331150										0.4								

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE		ppm	lbs/A	ppm		
3331149	1.31	0.45	0.29	0.31	1	0										
3331150	1.70	0.84	0.78	0.69	1	0										

## SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
3331149	Y104141	01														
3331150	Y104141	02														

Approved By: Bob Olsen

Analysis By: American Agricultural Lab

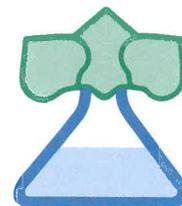
Recommendations By: American Agricultural Lab

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1725 ELK PLACE  
DENVER, CO 80211

DATE RECEIVED: 4/12/2021  
DATE REPORTED: 4/14/2021  
ACCOUNT NO: 95029  
GROWER: ORIGINS

## SOIL BORON REPORT

Lab #	Field ID	Sample ID	B, mg/L
331149	Y104141	1	0.1
331150	Y104141	2	0.4

*Bab Olson*

### Method Used:

Provin, T., and H. Zhang. 2014. DTPA and DTPA-Sorbitol Extraction of Micronutrients.  
Soil Test Methods From the Southeastern United States 2014