



September 14, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wells Ranch AA #21-04 Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AA #21-04 received by Origins Laboratory, Inc. September 01, 2021. This project is associated with Origins project number Y109025-01.

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: [none]  
Project: Noble - Wells Ranch AA #21-04

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-36@0.25'-0.5'	Y109025-01	Soil	September 1, 2021 12:16	09/01/2021 14:02

Origins Laboratory, Inc.

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# ORIGINS LABORATORY, INC

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wells Ranch AA #21-04

Origins Laboratory

### Sample Receipt Checklist

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

Origins Work Order: 4102025

Client: Eagle Environmental  
Client Project ID: Wells Ranch AA #21

Checklist Completed by: KH

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

Date/time completed: 9/10/21

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

Cooler Number/Temperature: 1 / 5.3 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

Thermometer ID: TC03 \_\_\_\_\_ °C \_\_\_\_\_ °C

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C? <sup>1,2</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>1,2</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>1,2</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analyses or samples with HTs due within 48 hours present? <sup>1,2</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely? <sup>1,2</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>1,2</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>1,2</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded? <sup>1,2</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked? <sup>1,2</sup> (note ID of combination instrument used in comments) (preservatives used confirmed for subcontracted analyses in order to insure sample integrity) <sup>1,2</sup> for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / for pH and/or samples preserved with NaAsO <sub>2</sub> ·NaOH, ZnAc·NaOH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any)				

<sup>1,2</sup> If N/A, 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: [Signature] (Project Manager)

Date/Time Reviewed: 9/10/21

Origins Laboratory, Inc.  
[Signature]

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 Project: Noble - Wells Ranch AA #21-04

**SS-36@0.25'-0.5'**  
**9/1/2021 12:16:00PM**

**Origins Laboratory, Inc.**  
**Y109025-01 (Soil)**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.537		0.199	mg/L	1	B110210	09/02/2021	09/02/2021	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B110112	09/01/2021	09/01/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	66.3%		50-150	"	"	"	"	"	
<b>GBTEX+TMBS</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B110111	"	09/01/2021	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	96.9%		70-130	"	"	"	"	"	

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**SS-36@0.25'-0.5'**  
**9/1/2021 12:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y109025-01 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	95.2 %		70-130			B1011 1	09/01/2021	09/01/2021	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	2.29		0.499	meq/L	10	[CALC]	09/02/2021	09/02/2021	
Magnesium	1.07		0.823	"	"	"	"	"	
Sodium	1.23		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00191	0.00048	0.00067	mg/Kg	1	L572431	09/03/2021	09/03/2021	
2-Methylnaphthalene	0.00283	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	0.00033	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.0007	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.00101	0.000501	0.00067	"	"	"	"	"	

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**SS-36@0.25'-0.5'**  
**9/1/2021 12:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y109025-01 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L572431	09/03/2021	09/03/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	75.2 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	72.1 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	7.58			pH Units	1	B110204	09/02/2021	09/02/2021	
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**SAR by 20B Saturated Paste**


SAR	0.950			SAR	1	B110208	09/02/2021	09/02/2021	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.549		0.00500	mmhos/cm	1	B110206	09/02/2021	09/02/2021	
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**Total Metals by 6020B**

Arsenic	1.61	0.0855	0.25	mg/Kg	5	L572418	09/03/2021	09/03/2021	
Barium	42.7	0.042	0.25	"	"	"	"	"	"

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**SS-36@0.25'-0.5'**  
**9/1/2021 12:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y109025-01 (Soil)**

**Total Metals by 6020B**

Cadmium	0.115	0.0259	0.25	mg/Kg	5	L572418	09/03/2021	09/03/2021	J
Copper	5.37	0.0806	0.25	"	"	"	"	"	"
Lead	4.83	0.031	0.25	"	"	"	"	"	"
Nickel	3.82	0.0633	0.25	"	"	"	"	"	"
Selenium	0.219	0.103	0.25	"	"	"	"	"	J
Silver	0.0194	0.0067	0.25	"	"	"	"	"	J
Zinc	27.5	0.534	2.5	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	2.48	5.08	mg/Kg	10	L572664	09/01/2021	09/07/2021	
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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 B1I0111 - EPA 5030 (soil)

Blank (B1I0111-BLK1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							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	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Jordan A. Merrill For Noelle Doyle Mathis, President

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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 B110111 - EPA 5030 (soil)

LCS (B110111-BS1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

1,2,4-Trimethylbenzene	0.0486	0.00200	mg/kg	0.0500		97.3	70-130			
Naphthalene	0.0522	0.0100	"	0.0500		104	70-130			
1,3,5-Trimethylbenzene	0.0462	0.00200	"	0.0500		92.5	70-130			
Benzene	0.0489	0.00200	"	0.0500		97.7	70-130			
Ethylbenzene	0.0473	0.00200	"	0.0500		94.6	70-130			
m,p-Xylene	0.0998	0.00400	"	0.100		99.8	70-130			
o-Xylene	0.0502	0.00200	"	0.0500		100	70-130			
Toluene	0.0537	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	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 B110111 - EPA 5030 (soil)

Matrix Spike (B110111-MS1)

Source: Y109002-01

Prepared: 09/01/2021 Analyzed: 09/01/2021

1,2,4-Trimethylbenzene	0.0481	0.00200	mg/kg	0.0500	ND	96.2	70-130			
Naphthalene	0.0534	0.0100	"	0.0500	ND	107	70-130			
1,3,5-Trimethylbenzene	0.0474	0.00200	"	0.0500	ND	94.9	70-130			
Benzene	0.0560	0.00200	"	0.0500	ND	112	70-130			
Ethylbenzene	0.0488	0.00200	"	0.0500	ND	97.6	70-130			
m,p-Xylene	0.0990	0.00400	"	0.100	ND	99.0	70-130			
o-Xylene	0.0508	0.00200	"	0.0500	ND	102	70-130			
Toluene	0.0494	0.00200	"	0.0500	ND	98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 B110111 - EPA 5030 (soil)

Matrix Spike Dup (B110111-MSD1)

Source: Y109002-01

Prepared: 09/01/2021 Analyzed: 09/01/2021

1,2,4-Trimethylbenzene	0.0449	0.00200	mg/kg	0.0500	ND	89.8	70-130	6.84	20	
Naphthalene	0.0493	0.0100	"	0.0500	ND	98.6	70-130	8.06	20	
1,3,5-Trimethylbenzene	0.0448	0.00200	"	0.0500	ND	89.5	70-130	5.81	20	
Benzene	0.0534	0.00200	"	0.0500	ND	107	70-130	4.68	20	
Ethylbenzene	0.0465	0.00200	"	0.0500	ND	93.0	70-130	4.78	20	
m,p-Xylene	0.0941	0.00400	"	0.100	ND	94.1	70-130	5.12	20	
o-Xylene	0.0483	0.00200	"	0.0500	ND	96.6	70-130	5.00	20	
Toluene	0.0470	0.00200	"	0.0500	ND	94.0	70-130	4.98	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 B110112 - EPA 3550B

Blank (B110112-BLK1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	25.0		74.9	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 B110112 - EPA 3550B**

**LCS (B110112-BS1)**

Prepared: 09/01/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	803	50.0	mg/kg	1000		80.3	70-130			
Residual Range Organics (C28-C40)	865	200	"	1000		86.5	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.4	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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**Batch B110112 - EPA 3550B**

**Matrix Spike (B110112-MS1)**

**Source: Y109002-01**

Prepared: 09/01/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130			
Residual Range Organics (C28-C40)	898	200	"	1000	ND	89.8	70-130			
Surrogate: o-Terphenyl	39		"	50.0		77.9	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B110112 - EPA 3550B**

**Matrix Spike Dup (B110112-MSD1)**

**Source: Y109002-01**

Prepared: 09/01/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	852	50.0	mg/kg	1000	ND	85.2	70-130	5.57	35	
Residual Range Organics (C28-C40)	828	200	"	1000	ND	82.8	70-130	8.10	35	
Surrogate: o-Terphenyl	39		"	50.0		78.2	50-150			

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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 - Wells Ranch AA #21-04

**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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**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 B110204 - NO PREP**

**Duplicate (B110204-DUP1)**

**Source: Y109008-01**

Prepared: 09/02/2021 Analyzed: 09/02/2021

pH	6.17		pH Units		6.28			1.77	25	
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**Batch B110206 - NO PREP**

**Blank (B110206-BLK1)**

Prepared: 09/02/2021 Analyzed: 09/02/2021

Specific Conductance (EC)	0.00310	0.00500	mmhos/cm							
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**Duplicate (B110206-DUP1)**

**Source: Y109008-01**

Prepared: 09/02/2021 Analyzed: 09/02/2021

Specific Conductance (EC)	0.0855	0.00500	mmhos/cm		0.0886			3.56	25	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Wells Ranch AA #21-04

**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 L572431 - 3550B**

**MSD (L 97625-MSD-L572431)**

**Source: 97625**

Prepared: 09/03/2021 Analyzed: 09/03/2021

Anthracene	0.122	0.000426	mg/Kg	0.166	97625	73.4	30-130	3.3	30	
Dibenz(a,h)anthracene	0.14	0.000279	"	0.166	0.000551	84.3	30-130	4.3	30	
Pyrene	0.122	0.000387	"	0.166	97625	73.4	30-130	2.4	30	
Naphthalene	0.104	0.000467	"	0.166	97625	62.6	30-130	2.9	30	
Indeno(1,2,3-cd)pyrene	0.142	0.000344	"	0.166	0.000484	85.5	30-130	7.2	30	
Fluorene	0.119	0.000501	"	0.166	97625	71.6	30-130	4.2	30	
Fluoranthene	0.122	0.000529	"	0.166	97625	73.4	30-130	1.6	30	
Benzo(a)pyrene	0.126	0.000133	"	0.166	0.000296	75.9	30-130	2.3	30	
1-Methylnaphthalene	0.106	0.00048	"	0.166	97625	63.8	30-130	4.8	30	
Chrysene	0.128	0.000256	"	0.166	97625	77.1	30-130	2.3	30	
2-Methylnaphthalene	0.105	0.000542	"	0.166	97625	63.2	30-130	4.8	30	
Acenaphthene	0.114	0.000431	"	0.166	97625	68.6	30-130	5.4	30	
Benzo(a)anthracene	0.127	0.000441	"	0.166	97625	76.5	30-130	0.7	30	
Benzo(b)fluoranthene	0.126	0.000138	"	0.166	97625	75.9	30-130	3.1	30	
Benzo(k)fluoranthene	0.125	0.000486	"	0.166	97625	75.3	30-130	8.3	30	
Surrogate: Nitrobenzene-d5	69.2		"	0.332	211	69.2	29-110			
Surrogate: 2-Fluorobiphenyl	64.1		"	0.332	193	64.1	33-115			
Surrogate: 4-Terphenyl-d14	76.8		"	0.332	224	76.8	33-122			

**MS (L 97625-MS-L572431)**

**Source: 97625**

Prepared: 09/03/2021 Analyzed: 09/03/2021

1-Methylnaphthalene	0.101	0.00048	mg/Kg	0.165	97625	61.2	30-130			
2-Methylnaphthalene	0.1	0.000542	"	0.165	97625	60.6	30-130			
Acenaphthene	0.108	0.000431	"	0.165	97625	65.4	30-130			
Anthracene	0.118	0.000426	"	0.165	97625	71.5	30-130			
Benzo(a)anthracene	0.126	0.000441	"	0.165	97625	76.3	30-130			
Benzo(a)pyrene	0.129	0.000133	"	0.165	0.000296	78.1	30-130			
Benzo(b)fluoranthene	0.13	0.000138	"	0.165	97625	78.7	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Wells Ranch AA #21-04

**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 L572431 - 3550B**

**MS (L 97625-MS-L572431)**

**Source: 97625**

Prepared: 09/03/2021 Analyzed: 09/03/2021

Fluoranthene	0.12	0.000529	mg/Kg	0.165	97625	72.7	30-130			
Dibenz(a,h)anthracene	0.134	0.000279	"	0.165	0.000551	81.2	30-130			
Fluorene	0.114	0.000501	"	0.165	97625	69	30-130			
Indeno(1,2,3-cd)pyrene	0.132	0.000344	"	0.165	0.000484	80	30-130			
Naphthalene	0.101	0.000467	"	0.165	97625	61.2	30-130			
Pyrene	0.119	0.000387	"	0.165	97625	72.1	30-130			
Benzo(k)fluoranthene	0.115	0.000486	"	0.165	97625	69.6	30-130			
Chrysene	0.125	0.000256	"	0.165	97625	75.7	30-130			
Surrogate: 2-Fluorobiphenyl	60.9		"	0.33	193	60.9	33-115			
Surrogate: 4-Terphenyl-d14	75.7		"	0.33	224	75.7	33-122			
Surrogate: Nitrobenzene-d5	69.3		"	0.33	211	69.3	29-110			

**LCS (LCS-L572431)**

Prepared: 09/03/2021 Analyzed: 09/03/2021

Fluorene	0.125	0.000501	mg/Kg	0.167		74.8	30-130			
2-Methylnaphthalene	0.109	0.000542	"	0.167		65.2	30-130			
Acenaphthene	0.118	0.000431	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.133	0.000441	"	0.167		79.6	30-130			
Benzo(a)pyrene	0.137	0.000133	"	0.167		82	30-130			
Benzo(b)fluoranthene	0.136	0.000138	"	0.167		81.4	30-130			
Benzo(k)fluoranthene	0.133	0.000486	"	0.167		79.6	30-130			
Chrysene	0.133	0.000256	"	0.167		79.6	30-130			
1-Methylnaphthalene	0.111	0.00048	"	0.167		66.4	30-130			
Fluoranthene	0.127	0.000529	"	0.167		76	30-130			
Indeno(1,2,3-cd)pyrene	0.168	0.000344	"	0.167		101	30-130			
Naphthalene	0.109	0.000467	"	0.167		65.2	30-130			
Pyrene	0.128	0.000387	"	0.167		76.6	30-130			
Dibenz(a,h)anthracene	0.17	0.000279	"	0.167		102	30-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Wells Ranch AA #21-04

**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 L572431 - 3550B**

**LCS (LCS-L572431)**

Prepared: 09/03/2021 Analyzed: 09/03/2021

Anthracene	0.129	0.000426	mg/Kg	0.167		77.2	30-130			
Surrogate: 2-Fluorobiphenyl	70.2		"	0.333		70.2	33-115			
Surrogate: 4-Terphenyl-d14	84.3		"	0.333		84.3	33-122			
Surrogate: Nitrobenzene-d5	84.3		"	0.333		84.3	29-110			

**LRB (LRB-L572431)**

Prepared: 09/03/2021 Analyzed: 09/03/2021

Acenaphthene	ND	0.00067	mg/Kg							
Pyrene	ND	0.00067	"							
Fluorene	ND	0.00067	"							
Naphthalene	ND	0.00067	"							
Indeno(1,2,3-cd)pyrene	ND	0.00067	"							
1-Methylnaphthalene	ND	0.00067	"							
Anthracene	ND	0.00067	"							
Benzo(a)anthracene	ND	0.00067	"							
Benzo(a)pyrene	ND	0.00067	"							
Benzo(b)fluoranthene	ND	0.00067	"							
Benzo(k)fluoranthene	ND	0.00067	"							
Chrysene	ND	0.00067	"							
Dibenz(a,h)anthracene	ND	0.00067	"							
Fluoranthene	ND	0.00067	"							
2-Methylnaphthalene	ND	0.00067	"							
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333		62.7	33-115			
Surrogate: 4-Terphenyl-d14	74.7		"	0.333		74.7	33-122			
Surrogate: Nitrobenzene-d5	70.8		"	0.333		70.8	29-110			

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Eagle Environmental Consulting, Inc.  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Wells Ranch AA #21-04

**Total Metals by 6020B - 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 L572418 - 3050B**

**MSD (L 98299-MSD-L572418)**

**Source: 98299**

Prepared: 09/03/2021 Analyzed: 09/03/2021

Barium	124	0.042	mg/Kg	4.92	107	346	75-125	5.8	80	*
Copper	10.4	0.0806	"	2.46	8.2	89	75-125	0	80	
Arsenic	3.89	0.0855	"	2.46	1.85	83	75-125	5	80	
Cadmium	0.733	0.0259	"	0.492	0.289	90	75-125	2.3	80	
Nickel	10.4	0.0633	"	2.46	7.85	104	75-125	1.9	80	
Selenium	4.11	0.103	"	4.92	0.309	77	75-125	11.8	80	
Silver	0.522	0.0067	"	0.492	0.0344	106	75-125	6.7	80	
Zinc	63	0.534	"	24.6	38.4	100	75-125	1.9	80	
Lead	13.6	0.031	"	2.46	10.4	130	75-125	3.7	80	*

**MS (L 98299-MS-L572418)**

**Source: 98299**

Prepared: 09/03/2021 Analyzed: 09/03/2021

Copper	10.4	0.0806	mg/Kg	2.37	8.2	93	75-125			
Lead	13.1	0.031	"	2.37	10.4	114	75-125			
Nickel	10.2	0.0633	"	2.37	7.85	99	75-125			
Selenium	3.65	0.103	"	4.73	0.309	71	75-125			*
Silver	0.488	0.0067	"	0.473	0.0344	103	75-125			
Cadmium	0.716	0.0259	"	0.473	0.289	90	75-125			
Barium	117	0.042	"	4.73	107	211	75-125			*
Arsenic	3.7	0.0855	"	2.37	1.85	78	75-125			
Zinc	61.8	0.534	"	23.7	38.4	99	75-125			

**LCS (LCS-L572418)**

Prepared: 09/03/2021 Analyzed: 09/03/2021

Arsenic	2.42	0.0855	mg/Kg	2.5		97	80-120			
Selenium	4.89	0.103	"	5		98	80-120			
Silver	0.52	0.0067	"	0.5		104	80-120			
Zinc	24.5	0.534	"	25		98	80-120			
Lead	2.46	0.031	"	2.5		98	80-120			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Wells Ranch AA #21-04

**Total Metals by 6020B - 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 L572418 - 3050B

**LCS (LCS-L572418)**

Prepared: 09/03/2021 Analyzed: 09/03/2021

Copper	2.49	0.0806	mg/Kg	2.5	100	80-120
Nickel	2.48	0.0633	"	2.5	99	80-120
Barium	4.77	0.042	"	5	95	80-120
Cadmium	0.47	0.0259	"	0.5	94	80-120

**LRB (LRB-L572418)**

Prepared: 09/03/2021 Analyzed: 09/03/2021

Selenium	ND	0.25	mg/Kg	-	-	-
Silver	ND	0.25	"	-	-	-
Nickel	ND	0.25	"	-	-	-
Lead	ND	0.25	"	-	-	-
Copper	ND	0.25	"	-	-	-
Cadmium	ND	0.25	"	-	-	-
Barium	ND	0.25	"	-	-	-
Arsenic	ND	0.25	"	-	-	-
Zinc	ND	2.5	"	-	-	-

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 - Wells Ranch AA #21-04

**Total Metals by 7196A - 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 L572664 -

**DUP (L 98279-DUP)**

Source: 98279

Prepared: Analyzed: 09/07/2021

Chromium, Hexavalent	ND	1.22	mg/Kg		98279	-		0	20	
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**MS (L 98279-MS)**

Source: 98279

Prepared: Analyzed: 09/07/2021

Chromium, Hexavalent	ND	2.44	mg/Kg	7.92	98279	0	75-125			*
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**LCS (LCS)**

Prepared: Analyzed: 09/07/2021

Chromium, Hexavalent	6.53	0.244	mg/Kg	8		82	75-125			
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**LRB (LRB)**

Prepared: Analyzed: 09/07/2021

Chromium, Hexavalent	ND	0.5	mg/Kg			-				
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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wells Ranch AA #21-04

## 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.

Origins Laboratory, Inc.

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