



September 07, 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. August 31, 2021. This project is associated with Origins project number Y108633-01.

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.

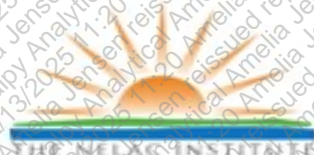
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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
Stockpile-01@0.25'	Y108633-01	Soil	August 31, 2021 12:00	08/31/2021 15:07

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

**Sample Receipt Checklist**

Origins Work Order: 4108433 Client: Eagle Env  
 Client Project ID: Noble - Wells Ranch


Checklist Completed by: JE Shipped Via: UPS  
 Date/time completed: 8/31/21 Airbill #: 44  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 40 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: 103

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.

Reviewed by (Project Manager) OP Date/Time Reviewed 8/31/21

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

**Stockpile-01@0.25'**  
**8/31/2021 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108633-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.683	0.201	mg/L	1	B110108	09/01/2021	09/02/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	50.0	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	69.2 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBS**

1,2,4-Trimethylbenzene	0.0151	0.00200	mg/kg	1	B1H3114	08/31/2021	08/31/2021	
1,3,5-Trimethylbenzene	0.00366	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.00214	0.00200	"	"	"	"	"	
Toluene	0.00396	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.679	0.200	"	"	"	"	"	
Xylenes, total	0.0200	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	95.6 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	"	"	"	"	"	"

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**8/31/2021 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108633-01 (Soil)**

**Metals by Saturated Paste**

Calcium	4.64		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	2.25		0.823	"	"	"	"	"	
Sodium	2.21		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.093	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.114	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	0.00603	0.000431	0.00067	"	"	"	"	"	
Anthracene	0.000923	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000947	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.0017	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00172	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00735	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	0.00104	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.0197	0.000501	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.000998	0.000344	0.00067	"	"	"	"	"	
Naphthalene	0.0235	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.00274	0.000387	0.00067	"	"	"	"	"	

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**Stockpile-01@0.25'**  
**8/31/2021 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y108633-01 (Soil)**

**PAH by 8270D SIM**

Surrogate: 2-Fluorobiphenyl	51.7 %		33-115			L5721 47	09/01/2021	09/02/2021	
Surrogate: 4-Terphenyl-d14	59.6 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	63.9 %		29-110			"	"	"	"

**pH in Soil by 9045D**

pH	7.70			pH Units	1	B110102	09/01/2021	09/01/2021	
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**SAR by 20B Saturated Paste**

SAR	1.19			SAR	1	B110106	09/01/2021	09/02/2021	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.906		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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**Total Metals by 6020B**

Arsenic	1.96	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Barium	1380	0.085	0.5	"	10	"	"	"	"
Cadmium	0.172	0.0259	0.25	"	5	"	"	"	J
Copper	8.62	0.0806	0.25	"	"	"	"	"	"
Lead	5.94	0.031	0.25	"	"	"	"	"	"
Nickel	5.23	0.0633	0.25	"	"	"	"	"	"
Selenium	0.317	0.103	0.25	"	"	"	"	"	"

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**8/31/2021 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y108633-01 (Soil)**

**Total Metals by 6020B**

Silver	0.0319	0.0067	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	J
Zinc	38.3	0.534	2.5	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L572293	08/31/2021	09/02/2021	
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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 B1H3114 - EPA 5030 (soil)

Blank (B1H3114-BLK1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

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	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.4		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 B1H3114 - EPA 5030 (soil)

LCS (B1H3114-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0480	0.00200	mg/kg	0.0500		96.0	70-130			
Naphthalene	0.0468	0.0100	"	0.0500		93.5	70-130			
1,3,5-Trimethylbenzene	0.0455	0.00200	"	0.0500		91.0	70-130			
Benzene	0.0413	0.00200	"	0.0500		82.6	70-130			
Ethylbenzene	0.0461	0.00200	"	0.0500		92.2	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100		96.9	70-130			
o-Xylene	0.0470	0.00200	"	0.0500		94.0	70-130			
Toluene	0.0473	0.00200	"	0.0500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	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 B1H3114 - EPA 5030 (soil)

Matrix Spike (B1H3114-MS1)

Source: Y108621-14

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0463	0.00200	mg/kg	0.0500	ND	92.7	70-130			
Naphthalene	0.0439	0.0100	"	0.0500	ND	87.7	70-130			
1,3,5-Trimethylbenzene	0.0454	0.00200	"	0.0500	ND	90.8	70-130			
Benzene	0.0439	0.00200	"	0.0500	ND	87.8	70-130			
Ethylbenzene	0.0459	0.00200	"	0.0500	ND	91.9	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100	ND	96.9	70-130			
o-Xylene	0.0475	0.00200	"	0.0500	ND	94.9	70-130			
Toluene	0.0485	0.00200	"	0.0500	ND	96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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 Project Number: [none]  
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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 B1H3114 - EPA 5030 (soil)

Matrix Spike Dup (B1H3114-MSD1)

Source: Y108621-14

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0484	0.00200	mg/kg	0.0500	ND	96.9	70-130	4.43	20	
Naphthalene	0.0467	0.0100	"	0.0500	ND	93.3	70-130	6.19	20	
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500	ND	92.7	70-130	2.05	20	
Benzene	0.0446	0.00200	"	0.0500	ND	89.2	70-130	1.58	20	
Ethylbenzene	0.0476	0.00200	"	0.0500	ND	95.2	70-130	3.51	20	
m,p-Xylene	0.100	0.00400	"	0.100	ND	100	70-130	3.29	20	
o-Xylene	0.0489	0.00200	"	0.0500	ND	97.8	70-130	2.99	20	
Toluene	0.0505	0.00200	"	0.0500	ND	101	70-130	4.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

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

**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 B1H3122 - EPA 3550B

Blank (B1H3122-BLK1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	40		"	50.0		79.8	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3122 - EPA 3550B

LCS (B1H3122-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

Diesel (C10-C28)	857	50.0	mg/kg	1000		85.7	70-130			
Residual Range Organics (C28-C40)	868	200	"	1000		86.8	70-130			
Surrogate: o-Terphenyl	41		"	50.0		82.8	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3122 - EPA 3550B

Matrix Spike (B1H3122-MS1)

Source: Y108633-01

Prepared: 08/31/2021 Analyzed: 08/31/2021

Diesel (C10-C28)	934	50.0	mg/kg	1000	50.0	88.4	70-130			
Residual Range Organics (C28-C40)	971	200	"	1000	27.1	94.3	70-130			
Surrogate: o-Terphenyl	42		"	50.0		84.6	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 B1H3122 - EPA 3550B

Matrix Spike Dup (B1H3122-MSD1)

Source: Y108633-01

Prepared: 08/31/2021 Analyzed: 08/31/2021

Diesel (C10-C28)	942	50.0	mg/kg	1000	50.0	89.2	70-130	0.866	35	
Residual Range Organics (C28-C40)	975	200	"	1000	27.1	94.8	70-130	0.452	35	
Surrogate: o-Terphenyl	45		"	50.0		89.5	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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**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 B110102 - NO PREP**

**Duplicate (B110102-DUP1)**

**Source: Y108628-01**

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

pH	9.53		pH Units		9.34			2.01	25	
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**Batch B110104 - NO PREP**

**Blank (B110104-BLK1)**

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

Specific Conductance (EC)	0.00420	0.00500	mmhos/cm							
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**Duplicate (B110104-DUP1)**

**Source: Y108628-01**

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

Specific Conductance (EC)	2.70	0.00500	mmhos/cm		2.73			0.976	25	
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Origins Laboratory, Inc.

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Jordan A. Merrill For Noelle Doyle Mathis, President

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

**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 L572147 - 3550B**

**MSD (L 97642-MSD-L572147)**

**Source: 97642**

Prepared: 09/01/2021 Analyzed: 09/02/2021

Chrysene	0.117	0.000256	mg/Kg	0.166	97642	70.4	30-130	3.4	30	
Naphthalene	0.0965	0.000467	"	0.166	97642	58.1	30-130	3.3	30	
Pyrene	0.116	0.000387	"	0.166	97642	69.8	30-130	5.3	30	
Indeno(1,2,3-cd)pyrene	0.139	0.000344	"	0.166	97642	83.7	30-130	6.6	30	
Fluorene	0.113	0.000501	"	0.166	97642	68	30-130	5.4	30	
Fluoranthene	0.116	0.000529	"	0.166	97642	69.8	30-130	4.4	30	
Dibenz(a,h)anthracene	0.138	0.000279	"	0.166	97642	83.1	30-130	5.9	30	
1-Methylnaphthalene	0.0995	0.00048	"	0.166	97642	59.9	30-130	4.9	30	
Benzo(b)fluoranthene	0.128	0.000138	"	0.166	97642	77.1	30-130	5.6	30	
Benzo(a)pyrene	0.12	0.000133	"	0.166	97642	72.2	30-130	3.3	30	
Benzo(a)anthracene	0.115	0.000441	"	0.166	97642	69.2	30-130	2.6	30	
Anthracene	0.117	0.000426	"	0.166	97642	70.4	30-130	4.3	30	
Acenaphthene	0.107	0.000431	"	0.166	97642	64.4	30-130	6.7	30	
2-Methylnaphthalene	0.0987	0.000542	"	0.166	0.000721	59	30-130	4.1	30	
Benzo(k)fluoranthene	0.109	0.000486	"	0.166	97642	65.6	30-130	8.7	30	
Surrogate: Nitrobenzene-d5	59.8		"	0.331	196	59.8	29-110			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.331	174	54.3	33-115			
Surrogate: 4-Terphenyl-d14	65.8		"	0.331	216	65.8	33-122			

**MS (L 97642-MS-L572147)**

**Source: 97642**

Prepared: 09/01/2021 Analyzed: 09/02/2021

Benzo(a)pyrene	0.116	0.000133	mg/Kg	0.163	97642	71.1	30-130			
Acenaphthene	0.1	0.000431	"	0.163	97642	61.3	30-130			
2-Methylnaphthalene	0.0947	0.000542	"	0.163	0.000721	57.6	30-130			
Benzo(a)anthracene	0.112	0.000441	"	0.163	97642	68.7	30-130			
1-Methylnaphthalene	0.0947	0.00048	"	0.163	97642	58	30-130			
Naphthalene	0.0933	0.000467	"	0.163	97642	57.2	30-130			
Anthracene	0.112	0.000426	"	0.163	97642	68.7	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 - 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 L572147 - 3550B**

**MS (L 97642-MS-L572147)**

**Source: 97642**

Prepared: 09/01/2021 Analyzed: 09/02/2021

Indeno(1,2,3-cd)pyrene	0.13	0.000344	mg/Kg	0.163	97642	79.7	30-130			
Fluorene	0.107	0.000501	"	0.163	97642	65.6	30-130			
Fluoranthene	0.111	0.000529	"	0.163	97642	68	30-130			
Dibenz(a,h)anthracene	0.13	0.000279	"	0.163	97642	79.7	30-130			
Chrysene	0.113	0.000256	"	0.163	97642	69.3	30-130			
Benzo(k)fluoranthene	0.0999	0.000486	"	0.163	97642	61.2	30-130			
Benzo(b)fluoranthene	0.121	0.000138	"	0.163	97642	74.2	30-130			
Pyrene	0.11	0.000387	"	0.163	97642	67.4	30-130			
Surrogate: 4-Terphenyl-d14	64.4		"	0.326	216	64.4	33-122			
Surrogate: 2-Fluorobiphenyl	52.4		"	0.326	174	52.4	33-115			
Surrogate: Nitrobenzene-d5	57.9		"	0.326	196	57.9	29-110			

**LCS (LCS-L572147)**

Prepared: 09/01/2021 Analyzed: 09/02/2021

Naphthalene	0.109	0.000467	mg/Kg	0.167		65.2	30-130			
Benzo(k)fluoranthene	0.132	0.000486	"	0.167		79	30-130			
2-Methylnaphthalene	0.108	0.000542	"	0.167		64.6	30-130			
Acenaphthene	0.116	0.000431	"	0.167		69.4	30-130			
Anthracene	0.128	0.000426	"	0.167		76.6	30-130			
Benzo(a)anthracene	0.132	0.000441	"	0.167		79	30-130			
Benzo(a)pyrene	0.135	0.000133	"	0.167		80.8	30-130			
Benzo(b)fluoranthene	0.128	0.000138	"	0.167		76.6	30-130			
Chrysene	0.131	0.000256	"	0.167		78.4	30-130			
Dibenz(a,h)anthracene	0.15	0.000279	"	0.167		89.8	30-130			
Fluoranthene	0.128	0.000529	"	0.167		76.6	30-130			
1-Methylnaphthalene	0.11	0.00048	"	0.167		65.8	30-130			
Indeno(1,2,3-cd)pyrene	0.148	0.000344	"	0.167		88.6	30-130			
Pyrene	0.128	0.000387	"	0.167		76.6	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 L572147 - 3550B**

**LCS (LCS-L572147)**

Prepared: 09/01/2021 Analyzed: 09/02/2021

Fluorene	0.123	0.000501	mg/Kg	0.167		73.6	30-130			
Surrogate: 2-Fluorobiphenyl	63.3		"	0.333		63.3	33-115			
Surrogate: Nitrobenzene-d5	75.6		"	0.333		75.6	29-110			
Surrogate: 4-Terphenyl-d14	75.9		"	0.333		75.9	33-122			

**LRB (LRB-L572147)**

Prepared: 09/01/2021 Analyzed: 09/02/2021

Benzo(a)anthracene	ND	0.00067	mg/Kg							
1-Methylnaphthalene	ND	0.00067	"							
2-Methylnaphthalene	ND	0.00067	"							
Pyrene	ND	0.00067	"							
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	"							
Fluorene	ND	0.00067	"							
Indeno(1,2,3-cd)pyrene	ND	0.00067	"							
Naphthalene	ND	0.00067	"							
Acenaphthene	ND	0.00067	"							
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333		61.2	33-115			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			
Surrogate: Nitrobenzene-d5	68.1		"	0.333		68.1	29-110			

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 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 L572102 - 3050B**

**MSD (L 97658-MSD-L572102)**

**Source: 97658**

Prepared: 09/01/2021 Analyzed: 09/02/2021

Cadmium	0.664	0.0259	mg/Kg	0.499	0.242	133	75-125	5.1	80	*
Nickel	10.9	0.0633	"	2.5	8.34	103	75-125	15.2	80	*
Barium	43.1	0.042	"	4.99	45	NR	75-125	41.6	80	*
Copper	14.9	0.0806	"	2.5	15	NR	75-125	22	80	*
Lead	16.1	0.031	"	2.5	15	44	75-125	12.2	80	*
Silver	0.511	0.0067	"	0.499	0.0666	102	75-125	5.1	80	*
Zinc	61	0.534	"	25	35	104	75-125	10.5	80	*
Arsenic	4.57	0.0855	"	2.5	2.4	87	75-125	38.3	80	*
Selenium	4.22	0.103	"	4.99	0.715	70	75-125	9.1	80	*

**MS (L 97658-MS-L572102)**

**Source: 97658**

Prepared: 09/01/2021 Analyzed: 09/02/2021

Copper	18.6	0.0806	mg/Kg	2.45	15	147	75-125			*
Zinc	54.9	0.534	"	24.5	35	81	75-125			*
Selenium	3.85	0.103	"	4.9	0.715	64	75-125			*
Nickel	12.7	0.0633	"	2.45	8.34	178	75-125			*
Lead	18.2	0.031	"	2.45	15	131	75-125			*
Silver	0.538	0.0067	"	0.49	0.0666	110	75-125			*
Arsenic	3.1	0.0855	"	2.45	2.4	29	75-125			*
Cadmium	0.699	0.0259	"	0.49	0.242	143	75-125			*
Barium	65.8	0.042	"	4.9	45	425	75-125			*

**LCS (LCS-L572102)**

Prepared: 09/01/2021 Analyzed: 09/02/2021

Arsenic	2.54	0.0855	mg/Kg	2.5		102	80-120			
Barium	4.92	0.042	"	5		98	80-120			
Cadmium	0.447	0.0259	"	0.5		89	80-120			
Copper	2.4	0.0806	"	2.5		96	80-120			
Lead	2.47	0.031	"	2.5		99	80-120			

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 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 L572102 - 3050B**

**LCS (LCS-L572102)**

Prepared: 09/01/2021 Analyzed: 09/02/2021

Nickel	2.34	0.0633	mg/Kg	2.5	94	80-120
Selenium	5.1	0.103	"	5	102	80-120
Zinc	23.6	0.534	"	25	94	80-120
Silver	0.484	0.0067	"	0.5	97	80-120

**LRB (LRB-L572102)**

Prepared: 09/01/2021 Analyzed: 09/02/2021

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

Origins Laboratory, Inc.

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Jordan A. Merrill For Noelle Doyle Mathis, President

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 L572293 -

**DUP (L 97642-DUP)**

Source: 97642

Prepared: Analyzed: 09/02/2021

Chromium, Hexavalent	ND	0.244	mg/Kg		97642	-		0	20	
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**MS (L 97642-MS)**

Source: 97642

Prepared: Analyzed: 09/02/2021

Chromium, Hexavalent	6.13	0.246	mg/Kg	8.11	97642	76	75-125			
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**LCS (LCS)**

Prepared: Analyzed: 09/02/2021

Chromium, Hexavalent	6.42	0.244	mg/Kg	8		80	75-125			
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**LRB (LRB)**

Prepared: Analyzed: 09/02/2021

Chromium, Hexavalent	0.251	0.5	mg/Kg			-				J
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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

### 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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