



September 01, 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



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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

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 #: NA
(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 ⁽¹⁾ ?	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 ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	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 ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		X		
Additional Comments (if any):				

⁽¹⁾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) SP

Date/Time Reviewed 8/31/21

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

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

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

DRO/ORO by EPA 8015D

Diesel (C10-C28)	50.0	25.0	mg/kg	1	B1H3122	KDK	08/31/2021	08/31/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	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	KDK	08/31/2021	08/31/2021	
1,3,5-Trimethylbenzene	0.00366	0.00200	"	"	"	KDK	"	"	
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	0.00214	0.00200	"	"	"	KDK	"	"	
Toluene	0.00396	0.00200	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	0.679	0.200	"	"	"	KDK	"	"	
Xylenes, total	0.0200	0.00200	"	"	"	KDK	"	"	

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

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

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
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							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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Martin C Eckert III
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 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 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		92.7	70-130			
Naphthalene	0.0439	0.0100	"	0.0500		87.7	70-130			
1,3,5-Trimethylbenzene	0.0454	0.00200	"	0.0500		90.8	70-130			
Benzene	0.0439	0.00200	"	0.0500		87.8	70-130			
Ethylbenzene	0.0459	0.00200	"	0.0500		91.9	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100		96.9	70-130			
o-Xylene	0.0475	0.00200	"	0.0500		94.9	70-130			
Toluene	0.0485	0.00200	"	0.0500		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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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		96.9	70-130	4.43	20	
Naphthalene	0.0467	0.0100	"	0.0500		93.3	70-130	6.19	20	
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500		92.7	70-130	2.05	20	
Benzene	0.0446	0.00200	"	0.0500		89.2	70-130	1.58	20	
Ethylbenzene	0.0476	0.00200	"	0.0500		95.2	70-130	3.51	20	
m,p-Xylene	0.100	0.00400	"	0.100		100	70-130	3.29	20	
o-Xylene	0.0489	0.00200	"	0.0500		97.8	70-130	2.99	20	
Toluene	0.0505	0.00200	"	0.0500		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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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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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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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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 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
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
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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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Notes and Definitions

- U Sample is Non-Detect.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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