



August 05, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

**Project Name - Chevron - Wells Ranch AF  
8-68-1HN**

**Project Number - [none]**

Attached are your analytical results for Chevron - Wells Ranch AF 8-68-1HN received by Origins Laboratory, Inc. July 10, 2024. This project is associated with Origins project number Y407276-01.

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

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Wells Ranch AF 8-68-1HN

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y407276-01	Soil	July 9, 2024 11:00	07/10/2024 17:15
FLR01@4	Y407276-02	Soil	July 9, 2024 11:05	07/10/2024 17:15

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

Page 1 of 1

ORIGINS WORK ORDER # 440727710

ORIGINS LABORATORY INC

Client: Entrada

Address:

Telephone Number: 303.319.8703

Email Address: Entrada Distribution cc:RJ@Entrada.com

Project Manager: Chelsea Veryser

Project Name: Wells Ranch AF 8-68-1HN

Project Number:

Key: W= Water  
GW=Groundwater  
SW=Surface Water  
WW=Waste Water  
L=Liquid

Collected By: Ian Lohner

Invoice/Billing Info: Bill to Chevron (Dusky Smith)

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments		
							1	2	3	4	5	6	7	8	9	10			
1	W101-06	7/9/24	1100	2	S	UNP													
2	FLR0104		1105																
3	W101-W04		1110																HOLD
4	W101-E04		1115																HOLD
5	W101-S04		1120																HOLD
6																			
7																			
8																			
9																			
10																			

Relinquished By: [Signature] Date: 7/10/24 Time: 6:11 PM

Relinquished By: [Signature] Date: 07/10/24 Time: 17:55

Received By: [Signature] Date: 4610 07/10/24 Time: 16:10

Received By: [Signature] Date: 7/10/24 Time: 17:15

Turnaround Time: ☐ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Standard ☒ ☐ Vac ☐ No

Temp Received: -5.5°C Received On Ice? ☐ No

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

Origins Laboratory, Inc.

*J. Bynon*

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 440727 Client: Entrada  
Client Project ID: Wells Ranch AF 8-68-1HN

Checklist Completed by: TSH/SAV Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 7/11/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
Cooler Number/Temperature: 1 15.5 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: T005

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"/>	<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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</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)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</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)</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 type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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 (Project Manager) JB Date/Time Reviewed 7/12/24

Origins Laboratory, Inc.

*J. Bynon*

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

WH01@6  
7/9/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407276-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.210	0.100	mg/L	1	B4G1209	07/12/2024	07/16/2024
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	112	25.0	mg/kg	1	B4G1201	07/12/2024	07/15/2024
Residual Range Organics (C28-C40)	393	100	"	"	"	"	"

Surrogate: o-Terphenyl	92.4 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1138	07/11/2024	07/17/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.208	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	95.5 %	70-130	"	"	"

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Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

WH01@6  
7/9/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407276-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	108 %	70-130	B4G11 38	07/11/2024	07/17/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.54	0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.34	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1227	07/12/2024	07/13/2024	Ua
2-Methylnaphthalene	0.003	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

WH01@6

7/9/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407276-01 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4G1227	07/12/2024	07/13/2024	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	84.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	10.8	pH Units	1	B4G1219	07/12/2024	07/13/2024
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**SAR by 20B Saturated Paste**

SAR	1.19	0.0100	SAR	1	B4G1214	07/12/2024	07/16/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.754	0.00500	mmhos/cm	1	B4G1219	07/12/2024	07/13/2024
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**Table 915 metals by EPA 6020B**

Arsenic	2.85	0.271	mg/kg	10	B4G0926	07/12/2024	07/16/2024
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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Wells Ranch AF 8-68-1HN

WH01@6

7/9/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y407276-01 (Soil)

## Table 915 metals by EPA 6020B

Barium	1940	9.35	mg/kg	10	B4G0926	07/12/2024	07/16/2024
Cadmium	0.919	0.0935	"	"	"	"	"
Copper	20.9	9.35	"	"	"	"	"
Lead	5.07	0.935	"	"	"	"	"
Nickel	4.51	0.935	"	"	"	"	"
Selenium	ND	0.243	"	"	"	"	"
Silver	ND	0.0935	"	"	"	"	"
Zinc	211	34.6	"	"	"	"	"

## Total Metals 7196A

Hexavalent Chromium	ND	0.149	0.373	mg/kg dry	1	2649508	08/01/2024	08/01/2024	U
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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

FLR01@4  
7/9/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407276-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.142	0.100	mg/L	1	B4G1209	07/12/2024	07/16/2024
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	40.3	25.0	mg/kg	1	B4G1201	07/12/2024	07/15/2024
Residual Range Organics (C28-C40)	125	100	"	"	"	"	"

Surrogate: o-Terphenyl	90.9 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1138	07/11/2024	07/16/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	98.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

FLR01@4  
7/9/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407276-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	106 %	70-130		B4G11 38	07/11/2024	07/16/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.48	0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.559	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1227	07/12/2024	07/13/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Wells Ranch AF 8-68-1HN

FLR01@4

7/9/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y407276-02 (Soil)

## PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4G1227	07/12/2024	07/13/2024	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	107 %	60-130	"	"	"

## pH in Soil by 9045D

pH	8.40	pH Units	1	B4G1219	07/12/2024	07/13/2024
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## SAR by 20B Saturated Paste

SAR	0.580	0.0100	SAR	1	B4G1214	07/12/2024	07/16/2024
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.348	0.00500	mmhos/cm	1	B4G1219	07/12/2024	07/13/2024
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## Table 915 metals by EPA 6020B

Arsenic	2.81	0.254	mg/kg	10	B4G0926	07/12/2024	07/16/2024
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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Wells Ranch AF 8-68-1HN

FLR01@4

7/9/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y407276-02 (Soil)

## Table 915 metals by EPA 6020B

Barium	418	8.77	mg/kg	10	B4G0926	07/12/2024	07/16/2024
Cadmium	0.130	0.0877	"	"	"	"	"
Copper	ND	8.77	"	"	"	"	"
Lead	4.23	0.877	"	"	"	"	"
Nickel	3.99	0.877	"	"	"	"	"
Selenium	ND	0.228	"	"	"	"	"
Silver	ND	0.0877	"	"	"	"	"
Zinc	ND	32.5	"	"	"	"	"

## Total Metals 7196A

Hexavalent Chromium	ND	0.148	0.369	mg/kg dry	1	2649508	08/01/2024	08/01/2024	U
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Origins Laboratory, Inc.



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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

## 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
Batch B4G1138 - EPA 5030 (soil)										
Blank (B4G1138-BLK1)					Prepared: 07/11/2024 Analyzed: 07/15/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

## 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
Batch B4G1138 - EPA 5030 (soil)										
LCS (B4G1138-BS1)					Prepared: 07/11/2024 Analyzed: 07/15/2024					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

**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 B4G1138 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B4G1138-MS1)</b>		<b>Source: Y407272-01</b>			Prepared: 07/11/2024 Analyzed: 07/15/2024					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	ND	112	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Naphthalene	0.0932	0.00380	"	0.100	ND	93.2	70-130			
Toluene	0.105	0.00200	"	0.100	ND	105	70-130			
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130			
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

**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 B4G1138 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B4G1138-MSD1)</b>		<b>Source: Y407272-01</b>			Prepared: 07/11/2024 Analyzed: 07/15/2024					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	6.69	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	9.22	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	0.628	20	
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	8.81	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	8.35	20	
Toluene	0.0981	0.00200	"	0.100	ND	98.1	70-130	6.66	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	8.86	20	
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.6	70-130	9.18	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Wells Ranch AF 8-68-1HN

## 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 B4G1201 - EPA 3550B

Blank (B4G1201-BLK1)

Prepared: 07/12/2024 Analyzed: 07/15/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		98.3	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Wells Ranch AF 8-68-1HN

## 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 B4G1201 - EPA 3550B

#### LCS (B4G1201-BS1)

Prepared: 07/12/2024 Analyzed: 07/15/2024

Diesel (C10-C28)	945	50.0	mg/kg	1000		94.5	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	63		"	49.8		126	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Wells Ranch AF 8-68-1HN

## 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 B4G1201 - EPA 3550B

Matrix Spike (B4G1201-MS1)		Source: Y407272-01			Prepared: 07/12/2024 Analyzed: 07/15/2024					
Diesel (C10-C28)	936	50.0	mg/kg	1000	ND	93.6	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.0	50-150			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Wells Ranch AF 8-68-1HN

## 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 B4G1201 - EPA 3550B

Matrix Spike Dup (B4G1201-MSD1)		Source: Y407272-01			Prepared: 07/12/2024 Analyzed: 07/15/2024					
Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	70-130	0.887	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	0.385	35	
Surrogate: o-Terphenyl	49		"	49.8		98.1	50-150			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Wells Ranch AF 8-68-1HN

## 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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## Metals by EPA 6000/7000 Series Methods - 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 B4G0926 - EPA 3050B

##### Blank (B4G0926-BLK1)

Prepared: 07/09/2024 Analyzed: 07/16/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

##### LCS (B4G0926-BS1)

Prepared: 07/09/2024 Analyzed: 07/16/2024

Arsenic	5.63	0.290	mg/kg	5.00	113	80-120
Barium	532	10.0	"	500	106	80-120
Cadmium	5.46	0.100	"	5.00	109	80-120
Copper	55.1	10.0	"	50.0	110	80-120
Lead	5.22	1.00	"	5.00	104	80-120
Nickel	5.82	1.00	"	5.00	116	80-120
Selenium	5.51	0.260	"	5.00	110	80-120
Silver	5.76	0.100	"	5.00	115	80-120
Zinc	55.8	37.0	"	50.0	112	80-120

##### Matrix Spike (B4G0926-MS1)

Source: Y407207-01

Prepared: 07/09/2024 Analyzed: 07/16/2024

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

## Metals by EPA 6000/7000 Series Methods - 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 B4G0926 - EPA 3050B

Matrix Spike (B4G0926-MS1)		Source: Y407207-01			Prepared: 07/09/2024 Analyzed: 07/16/2024					
Arsenic	6.72	0.268	mg/kg	4.63	1.60	111	75-125			
Barium	580	9.25	"	463	68.3	111	75-125			
Cadmium	5.36	0.0925	"	4.63	0.0590	115	75-125			
Copper	53.5	9.25	"	46.3	4.94	105	75-125			
Lead	11.0	0.925	"	4.63	4.90	133	75-125			QM-07
Nickel	9.97	0.925	"	4.63	5.07	106	75-125			
Selenium	5.50	0.241	"	4.63	0.0946	117	75-125			
Silver	5.57	0.0925	"	4.63	0.0131	120	75-125			
Zinc	71.8	34.2	"	46.3	21.7	108	75-125			
Matrix Spike Dup (B4G0926-MSD1)		Source: Y407207-01			Prepared: 07/09/2024 Analyzed: 07/16/2024					
Arsenic	6.27	0.245	mg/kg	4.23	1.60	110	75-125	6.91	20	
Barium	562	8.46	"	423	68.3	117	75-125	3.02	20	
Cadmium	4.96	0.0846	"	4.23	0.0590	116	75-125	7.78	20	
Copper	60.1	8.46	"	42.3	4.94	130	75-125	11.5	20	QM-07
Lead	9.87	0.846	"	4.23	4.90	118	75-125	11.2	20	
Nickel	9.53	0.846	"	4.23	5.07	105	75-125	4.51	20	
Selenium	4.79	0.220	"	4.23	0.0946	111	75-125	13.8	20	
Silver	5.23	0.0846	"	4.23	0.0131	123	75-125	6.29	20	
Zinc	68.7	31.3	"	42.3	21.7	111	75-125	4.33	20	

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G1227 - EPA 3580**

**Blank (B4G1227-BLK1)**

Prepared: 07/12/2024 Analyzed: 07/13/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		89.4	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**LCS (B4G1227-BS1)**

Prepared: 07/12/2024 Analyzed: 07/13/2024

1-Methylnaphthalene	0.182	0.002	mg/kg	0.200		91.0	70-130			
2-Methylnaphthalene	0.179	0.002	"	0.200		89.7	70-130			
Acenaphthene	0.192	0.020	"	0.200		96.2	70-130			
Anthracene	0.168	0.020	"	0.200		84.1	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G1227 - EPA 3580**

**LCS (B4G1227-BS1)**

Prepared: 07/12/2024 Analyzed: 07/13/2024

Benzo (a) anthracene	0.188	0.005	mg/kg	0.200		93.8	70-130
Benzo (a) pyrene	0.189	0.020	"	0.200		94.3	70-130
Benzo (b) fluoranthene	0.187	0.020	"	0.200		93.3	70-130
Benzo (g,h,i) perylene	0.178	0.020	"	0.200		89.0	70-130
Benzo (k) fluoranthene	0.182	0.020	"	0.200		91.0	70-130
Chrysene	0.186	0.020	"	0.200		93.2	70-130
Dibenz (a,h) anthracene	0.178	0.020	"	0.200		89.2	70-130
Fluoranthene	0.179	0.020	"	0.200		89.7	70-130
Fluorene	0.206	0.020	"	0.200		103	70-130
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200		88.8	70-130
Naphthalene	0.195	0.002	"	0.200		97.5	70-130
Phenanthrene	0.173	0.020	"	0.200		86.4	70-130
Pyrene	0.181	0.020	"	0.200		90.4	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130
Surrogate: Anthracene-d10	180		"	200		89.8	60-130
Surrogate: Pyrene-d10	200		"	200		99.3	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130

**Matrix Spike (B4G1227-MS1)**

Source: Y407207-01

Prepared: 07/12/2024 Analyzed: 07/13/2024

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	ND	96.1	70-130
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.5	70-130
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130
Anthracene	0.180	0.020	"	0.200	ND	89.9	70-130
Benzo (a) anthracene	0.195	0.005	"	0.200	ND	97.4	70-130
Benzo (a) pyrene	0.196	0.020	"	0.200	ND	98.1	70-130
Benzo (b) fluoranthene	0.190	0.020	"	0.200	0.0005	94.9	70-130
Benzo (g,h,i) perylene	0.186	0.020	"	0.200	ND	92.9	70-130

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G1227 - EPA 3580**

Matrix Spike (B4G1227-MS1)		Source: Y407207-01			Prepared: 07/12/2024 Analyzed: 07/13/2024					
Benzo (k) fluoranthene	0.195	0.020	mg/kg	0.200	ND	97.4	70-130			
Chrysene	0.200	0.020	"	0.200	0.0004	99.9	70-130			
Dibenz (a,h) anthracene	0.181	0.020	"	0.200	0.0009	90.1	70-130			
Fluoranthene	0.192	0.020	"	0.200	ND	95.8	70-130			
Fluorene	0.220	0.020	"	0.200	ND	110	70-130			
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	ND	92.7	70-130			
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.185	0.020	"	0.200	ND	92.4	70-130			
Pyrene	0.192	0.020	"	0.200	ND	95.8	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		90.5	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B4G1227-MSD1)		Source: Y407207-01			Prepared: 07/12/2024 Analyzed: 07/13/2024					
1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	ND	101	70-130	5.20	20	
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	100	70-130	4.83	20	
Acenaphthene	0.217	0.020	"	0.200	ND	108	70-130	5.59	20	
Anthracene	0.187	0.020	"	0.200	ND	93.5	70-130	3.88	20	
Benzo (a) anthracene	0.212	0.005	"	0.200	ND	106	70-130	8.53	20	
Benzo (a) pyrene	0.205	0.020	"	0.200	ND	103	70-130	4.62	20	
Benzo (b) fluoranthene	0.205	0.020	"	0.200	0.0005	102	70-130	7.61	20	
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	100	70-130	7.50	20	
Benzo (k) fluoranthene	0.204	0.020	"	0.200	ND	102	70-130	4.57	20	
Chrysene	0.207	0.020	"	0.200	0.0004	103	70-130	3.27	20	
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	0.0009	99.0	70-130	9.37	20	
Fluoranthene	0.203	0.020	"	0.200	ND	101	70-130	5.75	20	

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G1227 - EPA 3580**

Matrix Spike Dup (B4G1227-MSD1)		Source: Y407207-01			Prepared: 07/12/2024 Analyzed: 07/13/2024					
Fluorene	0.227	0.020	mg/kg	0.200	ND	114	70-130	3.25	20	
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	ND	99.8	70-130	7.42	20	
Naphthalene	0.215	0.002	"	0.200	ND	108	70-130	4.16	20	
Phenanthrene	0.194	0.020	"	0.200	ND	96.9	70-130	4.77	20	
Pyrene	0.199	0.020	"	0.200	ND	99.7	70-130	4.01	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		91.0	60-130			
Surrogate: Pyrene-d10	200		"	200		98.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B4G1209 - DTPA Sorbitol Preparation

#### Blank (B4G1209-BLK1)

Prepared: 07/12/2024 Analyzed: 07/16/2024

Boron ND 0.100 mg/L

#### Duplicate (B4G1209-DUP1)

Source: Y407237-01

Prepared: 07/12/2024 Analyzed: 07/16/2024

Boron 2.61 0.0997 mg/L 2.43 7.11 50

### Batch B4G1214 - Saturated Paste Metals

#### Blank (B4G1214-BLK1)

Prepared: 07/12/2024 Analyzed: 07/16/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

#### Duplicate (B4G1214-DUP1)

Source: Y407273-05

Prepared: 07/12/2024 Analyzed: 07/16/2024

SAR ND 0.0100 SAR 1.20 200

Calcium PPM 77.6 10.0 mg/L 70.4 9.70 50

Magnesium PPM 28.6 10.0 " 27.0 5.90 50

Sodium PPM 43.1 10.0 " 46.8 8.30 50

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G1219 - Saturated Paste pH/EC										
Blank (B4G1219-BLK1)					Prepared: 07/12/2024 Analyzed: 07/13/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4G1219-DUP1)					Source: Y407273-05 Prepared: 07/12/2024 Analyzed: 07/13/2024					
pH	8.30		pH Units		8.45			1.79	25	
Specific Conductance (EC)	0.899	0.00500	mmhos/cm		0.874			2.76	25	

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Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Wells Ranch AF 8-68-1HN

## Total Metals 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2649508 - SW846 3060A										
BLANK (1205807287-BLK)					Prepared: 08/01/2024 Analyzed: 08/01/2024					
Hexavalent Chromium	ND	0.350	mg/kg				-			U
LCS (1205807288-BKS)					Prepared: 08/01/2024 Analyzed: 08/01/2024					
Hexavalent Chromium	3.19	0.324	mg/kg	3.24		98.2	80-120			
DUP (1205807289 D)					Prepared: 08/01/2024 Analyzed: 08/01/2024					
Source: 675443001										
Hexavalent Chromium	0.205	0.366	mg/kg dry		0.165		0-50	21.7	50	J
MS (1205807290 S)					Prepared: 08/01/2024 Analyzed: 08/01/2024					
Source: 675443001										
Hexavalent Chromium	2.88	0.366	mg/kg dry	3.66	0.165	74.1	75-125			
DUP (1205807291 D)					Prepared: 08/01/2024 Analyzed: 08/01/2024					
Source: 675443003										
Hexavalent Chromium	ND	0.372	mg/kg dry		<0.149		0-50	N/A	50	U
MS (1205807292 S)					Prepared: 08/01/2024 Analyzed: 08/01/2024					
Source: 675443003										
Hexavalent Chromium	1.54	0.372	mg/kg dry	3.72	<0.149	40.3	75-125			
ILCS (1205807293-ILCS)					Prepared: 08/01/2024 Analyzed: 08/01/2024					
Source: 675443003										
Hexavalent Chromium	5.43	0.262	mg/kg	5.27		103	80-120			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Wells Ranch AF 8-68-1HN

## Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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