



June 27, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Johnson C29-28

Project Number - [none]

Attached are your analytical results for Chevron - Johnson C29-28 received by Origins Laboratory, Inc. June 12, 2024. This project is associated with Origins project number Y406374-01.

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 - Johnson C29-28

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y406374-01	Soil	June 12, 2024 13:00	06/12/2024 17:10
FLR01@4	Y406374-02	Soil	June 12, 2024 13:05	06/12/2024 17:10

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 - Johnson C29-28

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: 1406374 Client: Entrada  
Client Project ID: Johnson C29-28

Checklist Completed by: EMD Shipped Via: HO  
Date/time completed: 6/13/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
Cooler Number/Temperature: 1, 20.1 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: 7005

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"/>		<u>SD</u>
Is there ice present (document if blue ice is used)		<input checked="" type="checkbox"/>		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager): Jb Date/Time Reviewed: 6/14/12

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 - Johnson C29-28

WH01@6  
6/12/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406374-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.466	0.101	mg/L	1	B4F1411	06/14/2024	06/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F1407	06/14/2024	06/19/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	79.7 %	50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F1331	06/13/2024	06/14/2024	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	96.0 %	70-130	"	"	"	"	"	
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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 - Johnson C29-28

WH01@6  
6/12/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y406374-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.1 %	70-130	B4F13 31	06/13/2024	06/14/2024
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	3.34	0.499	meq/L	10	[CALC]	06/14/2024	06/18/2024
Magnesium	1.38	0.823	"	"	"	"	"
Sodium	2.58	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F1330	06/13/2024	06/18/2024	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

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 - Johnson C29-28

WH01@6

6/12/2024 1:00:00PM

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

Y406374-01 (Soil)

## PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F1330	06/13/2024	06/18/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	115 %	60-130	"	"	"
Surrogate: Anthracene-d10	107 %	60-130	"	"	"
Surrogate: Pyrene-d10	86.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	109 %	60-130	"	"	"

## pH in Soil by 9045D

pH	8.39	pH Units	1	B4F1419	06/14/2024	06/18/2024
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## SAR by 20B Saturated Paste

SAR	1.68	0.0100	SAR	1	B4F1415	06/14/2024	06/18/2024
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.801	0.00500	mmhos/cm	1	B4F1419	06/14/2024	06/18/2024
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## Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Johnson C29-28

WH01@6

6/12/2024 1:00:00PM

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

Y406374-01 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	2.68	0.271	mg/kg	10	B4F1325	06/13/2024	06/17/2024
Barium	74.0	9.33	"	"	"	"	"
Cadmium	0.119	0.0933	"	"	"	"	"
Copper	ND	9.33	"	"	"	"	"
Lead	8.91	0.933	"	"	"	"	"
Nickel	7.19	0.933	"	"	"	"	"
Selenium	ND	0.243	"	"	"	"	"
Silver	ND	0.0933	"	"	"	"	"
Zinc	ND	34.5	"	"	"	"	"

## Total Metals 7196A

Hexavalent Chromium	ND	0.151	0.376	mg/kg dry	1	2631209	06/25/2024	06/26/2024	U
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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 - Johnson C29-28

FLR01@4  
6/12/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406374-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.234	0.100	mg/L	1	B4F1411	06/14/2024	06/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F1407	06/14/2024	06/19/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	80.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F1331	06/13/2024	06/14/2024	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	93.4 %	70-130			"	"	"	
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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 - Johnson C29-28

FLR01@4  
6/12/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406374-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	95.7 %	70-130	B4F13 31	06/13/2024	06/14/2024
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	2.97	0.499	meq/L	10	[CALC]	06/14/2024	06/18/2024
Magnesium	1.34	0.823	"	"	"	"	"
Sodium	4.32	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F1330	06/13/2024	06/18/2024	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

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Johnson C29-28

FLR01@4

6/12/2024 1:05:00PM

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

Y406374-02 (Soil)

## PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F1330	06/13/2024	06/18/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	107 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	111 %	60-130	"	"	"

## pH in Soil by 9045D

pH	8.38	pH Units	1	B4F1419	06/14/2024	06/18/2024
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## SAR by 20B Saturated Paste

SAR	2.94	0.0100	SAR	1	B4F1415	06/14/2024	06/18/2024
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.880	0.00500	mmhos/cm	1	B4F1419	06/14/2024	06/18/2024
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## Table 915 metals by EPA 6020B

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 - Johnson C29-28

FLR01@4

6/12/2024 1:05:00PM

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

Y406374-02 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	1.57	0.273	mg/kg	10	B4F1325	06/13/2024	06/17/2024
Barium	63.7	9.41	"	"	"	"	"
Cadmium	ND	0.0941	"	"	"	"	"
Copper	ND	9.41	"	"	"	"	"
Lead	5.17	0.941	"	"	"	"	"
Nickel	6.45	0.941	"	"	"	"	"
Selenium	ND	0.245	"	"	"	"	"
Silver	ND	0.0941	"	"	"	"	"
Zinc	ND	34.8	"	"	"	"	"

## Total Metals 7196A

Hexavalent Chromium	ND	0.167	0.418	mg/kg dry	1	2631209	06/25/2024	06/26/2024	U
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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Johnson C29-28

**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 B4F1331 - EPA 5030 (soil)</b>										
<b>Blank (B4F1331-BLK1)</b>					Prepared: 06/13/2024 Analyzed: 06/14/2024					
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	0.11		"	0.125		91.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 - Johnson C29-28

## 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 B4F1331 - EPA 5030 (soil)										
LCS (B4F1331-BS1)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.0941	0.00200	"	0.100		94.1	70-130			
Naphthalene	0.0986	0.00380	"	0.100		98.6	70-130			
Toluene	0.0999	0.00200	"	0.100		99.9	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	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 - Johnson C29-28

## 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 B4F1331 - EPA 5030 (soil)

Matrix Spike (B4F1331-MS1)		Source: Y406369-01			Prepared: 06/13/2024 Analyzed: 06/14/2024					
1,2,4-Trimethylbenzene	0.0934	0.00200	mg/kg	0.100	ND	93.4	70-130			
1,3,5-Trimethylbenzene	0.0917	0.00200	"	0.100	ND	91.7	70-130			
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
Ethylbenzene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
Naphthalene	0.0839	0.00380	"	0.100	0.00138	82.5	70-130			
Toluene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
o-Xylene	0.0912	0.00200	"	0.100	ND	91.2	70-130			
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	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 - Johnson C29-28

## 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 B4F1331 - EPA 5030 (soil)										
Matrix Spike Dup (B4F1331-MSD1)		Source: Y406369-01			Prepared: 06/13/2024 Analyzed: 06/14/2024					
1,2,4-Trimethylbenzene	0.0824	0.00200	mg/kg	0.100	ND	82.4	70-130	12.5	20	
1,3,5-Trimethylbenzene	0.0802	0.00200	"	0.100	ND	80.2	70-130	13.4	20	
Benzene	0.0957	0.00200	"	0.100	ND	95.7	70-130	1.62	20	
Ethylbenzene	0.0783	0.00200	"	0.100	ND	78.3	70-130	6.93	20	
Naphthalene	0.0794	0.00380	"	0.100	0.00138	78.0	70-130	5.46	20	
Toluene	0.0864	0.00200	"	0.100	ND	86.4	70-130	4.57	20	
o-Xylene	0.0856	0.00200	"	0.100	ND	85.6	70-130	6.24	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130	7.26	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	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 - Johnson C29-28

## 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 B4F1407 - EPA 3550B

Blank (B4F1407-BLK1)

Prepared: 06/14/2024 Analyzed: 06/19/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		80.8	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 - Johnson C29-28

## 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 B4F1407 - EPA 3550B

#### LCS (B4F1407-BS1)

Prepared: 06/14/2024 Analyzed: 06/19/2024

Diesel (C10-C28)	952	50.0	mg/kg	1000		95.2	70-130			
Residual Range Organics (C28-C40)	967	200	"	1000		96.7	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.5	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 - Johnson C29-28

## 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 B4F1407 - EPA 3550B

Matrix Spike (B4F1407-MS1)		Source: Y406373-01			Prepared: 06/14/2024 Analyzed: 06/19/2024					
Diesel (C10-C28)	897	50.0	mg/kg	1000	ND	89.7	70-130			
Residual Range Organics (C28-C40)	919	200	"	1000	ND	91.9	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.4	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Johnson C29-28

## 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 B4F1407 - EPA 3550B

Matrix Spike Dup (B4F1407-MSD1)		Source: Y406373-01			Prepared: 06/14/2024 Analyzed: 06/19/2024					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	11.1	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	9.28	35	
Surrogate: o-Terphenyl	43		"	49.8		86.1	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 - Johnson C29-28

## 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 B4F1325 - EPA 3050B

#### Blank (B4F1325-BLK1)

Prepared: 06/13/2024 Analyzed: 06/17/2024

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 (B4F1325-BS1)

Prepared: 06/13/2024 Analyzed: 06/18/2024

Arsenic	4.91	0.290	mg/kg	5.00	98.1	80-120
Barium	511	10.0	"	500	102	80-120
Cadmium	5.10	0.100	"	5.00	102	80-120
Copper	49.0	10.0	"	50.0	98.0	80-120
Lead	5.24	1.00	"	5.00	105	80-120
Nickel	4.95	1.00	"	5.00	99.0	80-120
Selenium	8.95	0.260	"	9.50	94.2	80-120
Silver	5.11	0.100	"	5.00	102	80-120
Zinc	52.3	37.0	"	50.0	105	80-120

#### Matrix Spike (B4F1325-MS1)

Source: Y406374-01

Prepared: 06/13/2024 Analyzed: 06/17/2024

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 - Johnson C29-28

## 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
Batch B4F1325 - EPA 3050B										
<b>Matrix Spike (B4F1325-MS1)</b>			<b>Source: Y406374-01</b>		Prepared: 06/13/2024 Analyzed: 06/17/2024					
Arsenic	7.27	0.245	mg/kg	4.22	2.68	109	75-125			
Barium	562	8.44	"	422	74.0	116	75-125			
Cadmium	4.84	0.0844	"	4.22	0.119	112	75-125			
Copper	56.6	8.44	"	42.2	7.69	116	75-125			
Lead	14.9	0.844	"	4.22	8.91	142	75-125			QM-07
Nickel	12.0	0.844	"	4.22	7.19	113	75-125			
Selenium	9.41	0.219	"	8.01	0.206	115	75-125			
Silver	4.96	0.0844	"	4.22	0.0271	117	75-125			
Zinc	78.5	31.2	"	42.2	30.5	114	75-125			
<b>Matrix Spike Dup (B4F1325-MSD1)</b>			<b>Source: Y406374-01</b>		Prepared: 06/13/2024 Analyzed: 06/17/2024					
Arsenic	7.71	0.270	mg/kg	4.66	2.68	108	75-125	5.94	20	
Barium	630	9.31	"	466	74.0	119	75-125	11.3	20	
Cadmium	5.45	0.0931	"	4.66	0.119	114	75-125	11.8	20	
Copper	60.6	9.31	"	46.6	7.69	114	75-125	6.69	20	
Lead	13.2	0.931	"	4.66	8.91	92.7	75-125	12.0	20	
Nickel	12.3	0.931	"	4.66	7.19	109	75-125	2.54	20	
Selenium	9.82	0.242	"	8.85	0.206	109	75-125	4.27	20	
Silver	5.46	0.0931	"	4.66	0.0271	117	75-125	9.69	20	
Zinc	81.6	34.5	"	46.6	30.5	110	75-125	3.94	20	

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Johnson C29-28

**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 B4F1330 - EPA 3580**

**Blank (B4F1330-BLK1)**

Prepared: 06/13/2024 Analyzed: 06/18/2024

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		107	60-130			
Surrogate: Anthracene-d10	180		"	200		90.0	60-130			
Surrogate: Pyrene-d10	190		"	200		94.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

**LCS (B4F1330-BS1)**

Prepared: 06/13/2024 Analyzed: 06/18/2024

1-Methylnaphthalene	0.222	0.002	mg/kg	0.200		111	70-130
2-Methylnaphthalene	0.246	0.002	"	0.200		123	70-130
Acenaphthene	0.221	0.020	"	0.200		110	70-130
Anthracene	0.202	0.020	"	0.200		101	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 - Johnson C29-28

**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 B4F1330 - EPA 3580**

**LCS (B4F1330-BS1)**

Prepared: 06/13/2024 Analyzed: 06/18/2024

Benzo (a) anthracene	0.241	0.005	mg/kg	0.200		120	70-130
Benzo (a) pyrene	0.227	0.020	"	0.200		113	70-130
Benzo (b) fluoranthene	0.246	0.020	"	0.200		123	70-130
Benzo (g,h,i) perylene	0.248	0.020	"	0.200		124	70-130
Benzo (k) fluoranthene	0.231	0.020	"	0.200		115	70-130
Chrysene	0.225	0.020	"	0.200		112	70-130
Dibenz (a,h) anthracene	0.249	0.020	"	0.200		125	70-130
Fluoranthene	0.242	0.020	"	0.200		121	70-130
Fluorene	0.203	0.020	"	0.200		102	70-130
Indeno (1,2,3-cd) pyrene	0.255	0.020	"	0.200		128	70-130
Naphthalene	0.222	0.002	"	0.200		111	70-130
Phenanthrene	0.232	0.020	"	0.200		116	70-130
Pyrene	0.230	0.020	"	0.200		115	70-130
Surrogate: Fluorene-d10	190		ug/kg	200		95.1	60-130
Surrogate: Anthracene-d10	190		"	200		95.0	60-130
Surrogate: Pyrene-d10	200		"	200		99.6	60-130
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130

**Matrix Spike (B4F1330-MS1)**

Source: Y406319-01

Prepared: 06/13/2024 Analyzed: 06/18/2024

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	0.001	100	70-130
2-Methylnaphthalene	0.210	0.002	"	0.200	0.0009	105	70-130
Acenaphthene	0.193	0.020	"	0.200	0.003	95.2	70-130
Anthracene	0.186	0.020	"	0.200	ND	92.9	70-130
Benzo (a) anthracene	0.178	0.005	"	0.200	0.003	87.5	70-130
Benzo (a) pyrene	0.219	0.020	"	0.200	0.006	106	70-130
Benzo (b) fluoranthene	0.238	0.020	"	0.200	0.007	115	70-130
Benzo (g,h,i) perylene	0.228	0.020	"	0.200	0.008	110	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 - Johnson C29-28

**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 B4F1330 - EPA 3580**

Matrix Spike (B4F1330-MS1)		Source: Y406319-01			Prepared: 06/13/2024 Analyzed: 06/18/2024					
Benzo (k) fluoranthene	0.244	0.020	mg/kg	0.200	0.006	119	70-130			
Chrysene	0.193	0.020	"	0.200	0.005	94.3	70-130			
Dibenz (a,h) anthracene	0.235	0.020	"	0.200	0.011	112	70-130			
Fluoranthene	0.212	0.020	"	0.200	0.002	105	70-130			
Fluorene	0.192	0.020	"	0.200	0.001	95.3	70-130			
Indeno (1,2,3-cd) pyrene	0.242	0.020	"	0.200	0.011	116	70-130			
Naphthalene	0.187	0.002	"	0.200	ND	93.4	70-130			
Phenanthrene	0.190	0.020	"	0.200	0.002	94.1	70-130			
Pyrene	0.183	0.020	"	0.200	0.003	90.2	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		111	60-130			
Surrogate: Anthracene-d10	180		"	200		90.6	60-130			
Surrogate: Pyrene-d10	180		"	200		92.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B4F1330-MSD1)		Source: Y406319-01			Prepared: 06/13/2024 Analyzed: 06/18/2024					
1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	0.001	96.8	70-130	3.53	20	
2-Methylnaphthalene	0.214	0.002	"	0.200	0.0009	106	70-130	1.58	20	
Acenaphthene	0.179	0.020	"	0.200	0.003	88.0	70-130	7.73	20	
Anthracene	0.201	0.020	"	0.200	ND	100	70-130	7.82	20	
Benzo (a) anthracene	0.210	0.005	"	0.200	0.003	103	70-130	16.1	20	
Benzo (a) pyrene	0.204	0.020	"	0.200	0.006	99.1	70-130	6.79	20	
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.007	104	70-130	10.5	20	
Benzo (g,h,i) perylene	0.240	0.020	"	0.200	0.008	116	70-130	5.40	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	0.006	97.5	70-130	19.3	20	
Chrysene	0.191	0.020	"	0.200	0.005	93.2	70-130	1.11	20	
Dibenz (a,h) anthracene	0.253	0.020	"	0.200	0.011	121	70-130	7.63	20	
Fluoranthene	0.206	0.020	"	0.200	0.002	102	70-130	2.86	20	

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 - Johnson C29-28

**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 B4F1330 - EPA 3580**

Matrix Spike Dup (B4F1330-MSD1)		Source: Y406319-01			Prepared: 06/13/2024 Analyzed: 06/18/2024					
Fluorene	0.185	0.020	mg/kg	0.200	0.001	91.8	70-130	3.70	20	
Indeno (1,2,3-cd) pyrene	0.246	0.020	"	0.200	0.011	117	70-130	1.35	20	
Naphthalene	0.191	0.002	"	0.200	ND	95.5	70-130	2.28	20	
Phenanthrene	0.193	0.020	"	0.200	0.002	95.6	70-130	1.63	20	
Pyrene	0.189	0.020	"	0.200	0.003	93.0	70-130	2.99	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	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 - Johnson C29-28

## 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 B4F1411 - DTPA Sorbitol Preparation

#### Blank (B4F1411-BLK1)

Prepared: 06/14/2024 Analyzed: 06/17/2024

Boron ND 0.100 mg/L

#### Duplicate (B4F1411-DUP1)

Source: Y406372-03

Prepared: 06/14/2024 Analyzed: 06/17/2024

Boron 0.183 0.100 mg/L 0.200 8.77 50

### Batch B4F1415 - Saturated Paste Metals

#### Blank (B4F1415-BLK1)

Prepared: 06/14/2024 Analyzed: 06/18/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

#### Duplicate (B4F1415-DUP1)

Source: Y406369-01

Prepared: 06/14/2024 Analyzed: 06/18/2024

Calcium PPM 474 10.0 mg/L 465 2.03 50

SAR ND 0.0100 SAR 9.88 200

Magnesium PPM 277 10.0 mg/L 203 30.6 50

Sodium PPM 1190 10.0 " 1020 15.9 50

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 - Johnson C29-28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F1419 - Saturated Paste pH/EC</b>										
<b>Blank (B4F1419-BLK1)</b>					Prepared: 06/14/2024 Analyzed: 06/19/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4F1419-DUP1)</b>					<b>Source: Y406369-01</b> Prepared: 06/14/2024 Analyzed: 06/18/2024					
Specific Conductance (EC)	6.73	0.00500	mmhos/cm		5.82			14.6	25	
pH	8.23		pH Units		8.16			0.854	25	

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 - Johnson C29-28

## 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 2631209 - SW846 3060A										
BLANK (1205771139-BLK)					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	ND	0.293	mg/kg				-			U
LCS (1205771140-BKS)					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	3.71	0.371	mg/kg	3.71		99.9	80-120			
DUP (1205771141 D)					Source: 671766001 Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	ND	0.274	mg/kg dry		<0.110		0-50	N/A	50	U
MS (1205771142 S)					Source: 671766001 Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	1.65	0.274	mg/kg dry	2.74	<0.110	57.5	75-125			
DUP (1205771143 D)					Source: 671788002 Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	0.140	0.299	mg/kg dry		<0.120		0-50	N/A	50	hJ
MS (1205771144 S)					Source: 671788002 Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	2.39	0.299	mg/kg dry	2.99	<0.120	76.4	75-125			h
ILCS (1205771145-ILCS)					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	7.99	0.381	mg/kg	7.80		102	80-120			

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## 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.

hJ [Undefined]

h Preparation or preservation holding time was exceeded

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.

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