



June 17, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Arens G26-19

Project Number - [none]

Attached are your analytical results for Chevron - Arens G26-19 received by Origins Laboratory, Inc. May 17, 2024. This project is associated with Origins project number Y405567-01.

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 Verysen

Project Number: [none]

Project: Chevron - Arens G26-19

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y405567-01	Soil	May 17, 2024 11:00	05/17/2024 16:04
FLR01@4	Y405567-02	Soil	May 17, 2024 11:05	05/17/2024 16:04

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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# ORIGINS

## LABORATORY, INC

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Verysen

Project Number: [none]

Project: Chevron - Arens G26-19

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

### Sample Receipt Checklist

Origins Work Order: 1405567

Client: Entrada

Client Project ID: Arens G26-19

Checklist Completed by: SE 15110

Shipped Via: 140

Date/time completed: 5/12/24

(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 22.1 °C

°C

(Describe)

°C

Thermometer ID: TCOS

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"/>		

<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) COA

Date/Time Reviewed 5/12/24

Origins Laboratory, Inc.

*Jen Pellegrini*

Jen Pellegrini, Project Manager

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

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

WH01@6

5/17/2024 11:00:00AM

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

Y405567-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.245	0.0992	mg/L	1	B4E2108	05/21/2024	05/22/2024
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2002	05/20/2024	05/22/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	83.0 %	50-150	"	"	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2027	05/20/2024	05/20/2024	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	94.7 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

WH01@6

5/17/2024 11:00:00AM

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

Y405567-01 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B4E20 27	05/20/2024	05/20/2024
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	3.22	0.499	meq/L	10	[CALC]	05/21/2024	05/23/2024
Magnesium	2.67	0.823	"	"	"	"	"
Sodium	10.4	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2033	05/20/2024	05/21/2024	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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Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

WH01@6

5/17/2024 11:00:00AM

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

Y405567-01 (Soil)

### PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2033	05/20/2024	05/21/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.9 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	91.2 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.3 %	60-130	"	"	"	"	"	"

### pH in Soil by 9045D

pH	8.49	pH Units	1	B4E2121	05/21/2024	05/22/2024	
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### SAR by 20B Saturated Paste

SAR	6.08	0.0100	SAR	1	B4E2115	05/21/2024	05/23/2024	
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.61	0.00500	mmhos/cm	1	B4E2121	05/21/2024	05/22/2024	
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

WH01@6

5/17/2024 11:00:00AM

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

Y405567-01 (Soil)

### Table 915 metals by EPA 6020B

Arsenic	1.30	0.264	mg/kg	10	B4E1749	05/20/2024	05/21/2024	
Barium	53.3	9.12	"	"	"	"	"	
Cadmium	ND	0.0912	"	"	"	"	"	Ua
Copper	ND	9.12	"	"	"	"	"	Ua
Lead	3.76	0.912	"	"	"	"	"	
Nickel	3.27	0.912	"	"	"	"	"	
Selenium	ND	0.237	"	"	"	"	"	Ua
Silver	ND	0.0912	"	"	"	"	"	Ua
Zinc	ND	33.7	"	"	"	"	"	Ua

### Total Metals 7196A

Hexavalent Chromium	0.150	0.136	0.341	mg/kg dry	1	2620905	06/04/2024	06/06/2024	J
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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

FLR01@4

5/17/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y405567-02 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.556	0.101	mg/L	1	B4E2108	05/21/2024	05/22/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2002	05/20/2024	05/22/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.7 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2027	05/20/2024	05/20/2024	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	98.6 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

FLR01@4

5/17/2024 11:05:00AM

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

Y405567-02 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %	70-130	B4E20 27	05/20/2024	05/20/2024
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	4.03	0.499	meq/L	10	[CALC]	05/21/2024	05/23/2024
Magnesium	4.27	0.823	"	"	"	"	"
Sodium	16.5	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2033	05/20/2024	05/21/2024	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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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

FLR01@4

5/17/2024 11:05:00AM

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

Y405567-02 (Soil)

### PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2033	05/20/2024	05/21/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	95.0 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	108 %	60-130	"	"	"	"	"	"

### pH in Soil by 9045D

pH	8.42	pH Units	1	B4E2121	05/21/2024	05/22/2024	
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### SAR by 20B Saturated Paste

SAR	8.11	0.0100	SAR	1	B4E2115	05/21/2024	05/23/2024	
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.32	0.00500	mmhos/cm	1	B4E2121	05/21/2024	05/22/2024	
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

FLR01@4

5/17/2024 11:05:00AM

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

Y405567-02 (Soil)

### Table 915 metals by EPA 6020B

Arsenic	2.72	0.272	mg/kg	10	B4E1749	05/20/2024	05/21/2024	
Barium	66.7	9.38	"	"	"	"	"	
Cadmium	0.102	0.0938	"	"	"	"	"	
Copper	ND	9.38	"	"	"	"	"	Ua
Lead	19.1	0.938	"	"	"	"	"	
Nickel	4.58	0.938	"	"	"	"	"	
Selenium	ND	0.244	"	"	"	"	"	Ua
Silver	ND	0.0938	"	"	"	"	"	Ua
Zinc	ND	34.7	"	"	"	"	"	Ua

### Total Metals 7196A

Hexavalent Chromium	0.134	0.123	0.306	mg/kg dry	1	2620905	06/04/2024	06/06/2024	J
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Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Verysen

Project Number: [none]

Project: Chevron - Arens G26-19

## 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 B4E2002 - EPA 3550B

Blank (B4E2002-BLK1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		81.2	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

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 B4E2002 - EPA 3550B

LCS (B4E2002-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Diesel (C10-C28)	863	50.0	mg/kg	1000		86.3	70-130			
Residual Range Organics (C28-C40)	949	200	"	1000		94.9	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Verysen

Project Number: [none]

Project: Chevron - Arens G26-19

## 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 B4E2002 - EPA 3550B

Matrix Spike (B4E2002-MS1)

Source: Y405574-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

Diesel (C10-C28)	885	50.0	mg/kg	1000	ND	88.5	70-130
Residual Range Organics (C28-C40)	995	200	"	1000	ND	99.5	70-130
Surrogate: o-Terphenyl	52		"	49.8		104	50-150

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330 Grand Ave. Unit C  
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Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2002 - EPA 3550B

Matrix Spike Dup (B4E2002-MSD1)

Source: Y405574-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

Diesel (C10-C28)	792	50.0	mg/kg	1000	ND	79.2	70-130	11.1	35	
Residual Range Organics (C28-C40)	898	200	"	1000	ND	89.8	70-130	10.2	35	
Surrogate: o-Terphenyl	47		"	49.8		93.6	50-150			

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2027 - EPA 5030 (soil)

#### Blank (B4E2027-BLK1)

Prepared: 05/20/2024 Analyzed: 05/20/2024

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	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.081		"	0.125		64.6	70-130			S-GC

Origins Laboratory, Inc.



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

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2027 - EPA 5030 (soil)

LCS (B4E2027-BS1)

Prepared: 05/20/2024 Analyzed: 05/20/2024

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2027 - EPA 5030 (soil)

Matrix Spike (B4E2027-MS1)

Source: Y405557-01

Prepared: 05/20/2024 Analyzed: 05/20/2024

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130
Benzene	0.107	0.00200	"	0.100	ND	107	70-130
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130
Toluene	0.108	0.00200	"	0.100	ND	108	70-130
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130
Surrogate: 1,2-Dichloroethane-d4	0.12	"	"	0.125	95.0		70-130
Surrogate: Toluene-d8	0.13	"	"	0.125	101		70-130
Surrogate: 4-Bromofluorobenzene	0.12	"	"	0.125	99.0		70-130

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Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2027 - EPA 5030 (soil)

Matrix Spike Dup (B4E2027-MSD1)

Source: Y405557-01

Prepared: 05/20/2024 Analyzed: 05/20/2024

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	1.93	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	1.94	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	0.392	20	
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	0.899	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	0.617	20	
Toluene	0.108	0.00200	"	0.100	ND	108	70-130	0.0185	20	
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130	1.60	20	
m,p-Xylene	0.221	0.00400	"	0.200	ND	110	70-130	1.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.12	"	"	0.125	95.5		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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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

**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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**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 B4E1749 - EPA 3050B**

**Blank (B4E1749-BLK1)**

Prepared: 05/20/2024 Analyzed: 05/21/2024

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

**LCS (B4E1749-BS1)**

Prepared: 05/20/2024 Analyzed: 05/21/2024

Arsenic	5.38	0.290	mg/kg	5.00	108	80-120
Barium	551	10.0	"	500	110	80-120
Cadmium	5.62	0.100	"	5.00	112	80-120
Copper	52.5	10.0	"	50.0	105	80-120
Lead	5.25	1.00	"	5.00	105	80-120
Nickel	4.44	1.00	"	5.00	88.7	80-120
Selenium	9.77	0.260	"	9.50	103	80-120
Silver	5.41	0.100	"	5.00	108	80-120
Zinc	52.8	37.0	"	50.0	106	80-120

**Matrix Spike (B4E1749-MS1)**

Source: Y405563-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E1749 - EPA 3050B

#### Matrix Spike (B4E1749-MS1)

Source: Y405563-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

Arsenic	7.06	0.262	mg/kg	4.52	1.72	118	75-125			
Barium	549	9.04	"	452	43.2	112	75-125			
Cadmium	5.05	0.0904	"	4.52	0.0686	110	75-125			
Copper	52.5	9.04	"	45.2	3.86	108	75-125			
Lead	10.5	0.904	"	4.52	6.15	95.5	75-125			
Nickel	8.36	0.904	"	4.52	3.34	111	75-125			
Selenium	8.44	0.235	"	8.59	0.0703	97.4	75-125			
Silver	4.90	0.0904	"	4.52	0.0137	108	75-125			
Zinc	69.1	33.5	"	45.2	16.6	116	75-125			

#### Matrix Spike Dup (B4E1749-MSD1)

Source: Y405563-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

Arsenic	6.40	0.253	mg/kg	4.37	1.72	107	75-125	9.74	20	
Barium	525	8.74	"	437	43.2	110	75-125	4.33	20	
Cadmium	4.81	0.0874	"	4.37	0.0686	108	75-125	4.98	20	
Copper	50.1	8.74	"	43.7	3.86	106	75-125	4.74	20	
Lead	10.8	0.874	"	4.37	6.15	105	75-125	2.62	20	
Nickel	7.82	0.874	"	4.37	3.34	103	75-125	6.68	20	
Selenium	8.62	0.227	"	8.30	0.0703	103	75-125	2.10	20	
Silver	4.65	0.0874	"	4.37	0.0137	106	75-125	5.20	20	
Zinc	64.2	32.3	"	43.7	16.6	109	75-125	7.34	20	

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Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2033 - EPA 3580

#### Blank (B4E2033-BLK1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

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	200		ug/kg	200		99.2	60-130
Surrogate: Anthracene-d10	200		"	200		102	60-130
Surrogate: Pyrene-d10	200		"	200		101	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130

#### LCS (B4E2033-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200		104	70-130
2-Methylnaphthalene	0.209	0.002	"	0.200		104	70-130
Acenaphthene	0.210	0.020	"	0.200		105	70-130
Anthracene	0.211	0.020	"	0.200		105	70-130

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

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2033 - EPA 3580

#### LCS (B4E2033-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Benzo (a) anthracene	0.221	0.005	mg/kg	0.200		111	70-130
Benzo (a) pyrene	0.217	0.020	"	0.200		109	70-130
Benzo (b) fluoranthene	0.223	0.020	"	0.200		111	70-130
Benzo (g,h,i) perylene	0.214	0.020	"	0.200		107	70-130
Benzo (k) fluoranthene	0.208	0.020	"	0.200		104	70-130
Chrysene	0.214	0.020	"	0.200		107	70-130
Dibenz (a,h) anthracene	0.221	0.020	"	0.200		110	70-130
Fluoranthene	0.205	0.020	"	0.200		102	70-130
Fluorene	0.214	0.020	"	0.200		107	70-130
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200		109	70-130
Naphthalene	0.209	0.002	"	0.200		104	70-130
Phenanthrene	0.210	0.020	"	0.200		105	70-130
Pyrene	0.210	0.020	"	0.200		105	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130
Surrogate: Anthracene-d10	200		"	200		99.2	60-130
Surrogate: Pyrene-d10	200		"	200		98.5	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

#### Matrix Spike (B4E2033-MS1)

Source: Y405567-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

1-Methylnaphthalene	0.221	0.002	mg/kg	0.200	ND	111	70-130
2-Methylnaphthalene	0.221	0.002	"	0.200	ND	110	70-130
Acenaphthene	0.213	0.020	"	0.200	ND	107	70-130
Anthracene	0.231	0.020	"	0.200	ND	115	70-130
Benzo (a) anthracene	0.222	0.005	"	0.200	ND	111	70-130
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	110	70-130
Benzo (b) fluoranthene	0.219	0.020	"	0.200	ND	110	70-130
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	0.0006	101	70-130

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2033 - EPA 3580

#### Matrix Spike (B4E2033-MS1)

Source: Y405567-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

Benzo (k) fluoranthene	0.189	0.020	mg/kg	0.200	0.0005	94.4	70-130
Chrysene	0.221	0.020	"	0.200	ND	110	70-130
Dibenz (a,h) anthracene	0.208	0.020	"	0.200	0.0009	104	70-130
Fluoranthene	0.212	0.020	"	0.200	ND	106	70-130
Fluorene	0.213	0.020	"	0.200	ND	107	70-130
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	ND	103	70-130
Naphthalene	0.214	0.002	"	0.200	ND	107	70-130
Phenanthrene	0.218	0.020	"	0.200	ND	109	70-130
Pyrene	0.212	0.020	"	0.200	ND	106	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		97.6	60-130
Surrogate: Anthracene-d10	200		"	200		99.1	60-130
Surrogate: Pyrene-d10	190		"	200		95.0	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.4	60-130

#### Matrix Spike Dup (B4E2033-MSD1)

Source: Y405567-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	103	70-130	7.66	20
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	106	70-130	4.41	20
Acenaphthene	0.209	0.020	"	0.200	ND	105	70-130	1.85	20
Anthracene	0.227	0.020	"	0.200	ND	113	70-130	1.77	20
Benzo (a) anthracene	0.215	0.005	"	0.200	ND	108	70-130	2.95	20
Benzo (a) pyrene	0.211	0.020	"	0.200	ND	105	70-130	3.93	20
Benzo (b) fluoranthene	0.214	0.020	"	0.200	ND	107	70-130	2.35	20
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	0.0006	98.3	70-130	3.17	20
Benzo (k) fluoranthene	0.174	0.020	"	0.200	0.0005	86.5	70-130	8.69	20
Chrysene	0.200	0.020	"	0.200	ND	99.9	70-130	9.95	20
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	0.0009	101	70-130	2.34	20
Fluoranthene	0.200	0.020	"	0.200	ND	99.9	70-130	5.93	20

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Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2033 - EPA 3580

### Matrix Spike Dup (B4E2033-MSD1)

Source: Y405567-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

Fluorene	0.206	0.020	mg/kg	0.200	ND	103	70-130	3.30	20	
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200	ND	106	70-130	3.10	20	
Naphthalene	0.208	0.002	"	0.200	ND	104	70-130	2.99	20	
Phenanthrene	0.205	0.020	"	0.200	ND	102	70-130	6.30	20	
Pyrene	0.207	0.020	"	0.200	ND	104	70-130	2.00	20	
Surrogate: Fluorene-d10	190		ug/kg	200		94.8	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.6	60-130			

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

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2108 - DTPA Sorbitol Preparation

#### Blank (B4E2108-BLK1)

Prepared: 05/21/2024 Analyzed: 05/22/2024

Boron	ND	0.100	mg/L							Ua
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#### Duplicate (B4E2108-DUP1)

Source: Y405565-01

Prepared: 05/21/2024 Analyzed: 05/22/2024

Boron	0.183	0.0996	mg/L		0.173			6.16	50	
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### Batch B4E2115 - Saturated Paste Metals

#### Blank (B4E2115-BLK1)

Prepared: 05/21/2024 Analyzed: 05/23/2024

SAR	ND	0.0100	SAR							Ua
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Calcium PPM	ND	10.0	mg/L							Ua
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Magnesium PPM	ND	10.0	"							Ua
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Sodium PPM	ND	10.0	"							Ua
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#### Duplicate (B4E2115-DUP1)

Source: Y405565-01

Prepared: 05/21/2024 Analyzed: 05/23/2024

Calcium PPM	39.5	10.0	mg/L		37.7			4.79	50	
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SAR	ND	0.0100	SAR		0.451				200	Ua
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Magnesium PPM	9.42	10.0	mg/L		9.73			3.24	50	Ua
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Sodium PPM	12.0	10.0	"		12.0			0.417	50	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 B4E2121 - Saturated Paste pH/EC

#### Blank (B4E2121-BLK1)

Prepared: 05/21/2024 Analyzed: 05/22/2024

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
pH	0.00		pH Units							Ua

#### Duplicate (B4E2121-DUP1)

Source: Y405565-01

Prepared: 05/21/2024 Analyzed: 05/22/2024

pH	8.17		pH Units		8.32			1.82	25	
Specific Conductance (EC)	0.348	0.00500	mmhos/cm		0.334			4.17	25	

Origins Laboratory, Inc.



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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## 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 2620905 - SW846 3060A										
BLANK (1205751398-BLK)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	ND	0.293	mg/kg				-			U
LCS (1205751399-BKS)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	2.77	0.281	mg/kg	2.81		98.6	80-120			
DUP (1205751400 D)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	0.147	0.334	mg/kg dry		0.184		0-50	22.5	50	J
MS (1205751401 S)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	2.74	0.334	mg/kg dry	3.34	0.184	76.5	75-125			
DUP (1205751402 D)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	ND	0.323	mg/kg dry		0.142		0-50	N/A	50	U
MS (1205751403 S)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	3.05	0.323	mg/kg dry	3.23	0.142	89.8	75-125			
ILCS (1205751404-ILCS)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	5.24	0.261	mg/kg	5.22		100	80-120			

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

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Arens G26-19

## Notes and Definitions

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- 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.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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