



June 03, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Ocoma C17-15

Project Number - [none]

Attached are your analytical results for Chevron - Ocoma C17-15 received by Origins Laboratory, Inc. May 20, 2024. This project is associated with Origins project number Y405607-01.

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 - Ocoma C17-15

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y405607-01	Soil	May 20, 2024 13:00	05/20/2024 17:00
FLR01@4	Y405607-02	Soil	May 20, 2024 13:05	05/20/2024 17:00

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 - Ocoma C17-15

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

Sample Receipt Checklist

Origins Work Order: 1405607 Client: Entrada
 Client Project ID: Ocoma C17-15

Checklist Completed by: SA JCH Shipped Via: HD
 Date/time completed: 3/20/24 (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 / 22.6 °C °C °C (Describe) _____ °C

Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 (1)? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaOH, NaOH, ZnCl2+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JCH

Date/Time Reviewed 3/21/24

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

WH01@6
 5/20/2024 1:00:00PM

Origins Laboratory, Inc.
Y405607-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Boron (DTPA Sorbitol)

Boron	ND		0.0984	mg/L	1	B4E2109	05/21/2024	05/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E2201	05/22/2024	05/24/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	86.5 %		50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2103	05/21/2024	05/22/2024	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	102 %		70-130	"	"	"	"	"	"
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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 - Ocoma C17-15

WH01@6
 5/20/2024 1:00:00PM

Origins Laboratory, Inc.
Y405607-01 (Soil)

GBTEX+TMBs by 8260D


Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Surrogate: Toluene-d8	98.1 %		70-130			B4E21 03	05/21/2024	05/22/2024	
Surrogate: 4-Bromofluorobenzene	108 %		70-130			"	"	"	"

Metals by Saturated Paste by EPA 6010

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Calcium	1.29		0.499	meq/L	10	[CALC]	05/22/2024	05/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.503		0.435	"	"	"	"	"	

PAH by EPA 8270E

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E2133	05/21/2024	05/25/2024	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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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

WH01@6
 5/20/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405607-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E2133	05/21/2024	05/25/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130						
Surrogate: Anthracene-d10	97.6 %		60-130						
Surrogate: Pyrene-d10	113 %		60-130						
Surrogate: Benzo (a) pyrene-d12	106 %		60-130						

pH in Soil by 9045D

pH	8.35			pH Units	1	B4E2228	05/22/2024	05/23/2024	
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SAR by 20B Saturated Paste

SAR	0.530		0.0100	SAR	1	B4E2217	05/22/2024	05/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.295		0.00500	mmhos/cm	1	B4E2228	05/22/2024	05/23/2024	
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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 - Ocoma C17-15

WH01@6
 5/20/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405607-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.03		0.259	mg/kg	10	B4E2044	05/21/2024	05/22/2024	
Barium	32.9		8.92	"	"	"	"	"	
Cadmium	ND		0.0892	"	"	"	"	"	
Copper	ND		8.92	"	"	"	"	"	
Lead	8.65		0.892	"	"	"	"	"	
Nickel	4.32		0.892	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	
Silver	ND		0.0892	"	"	"	"	"	
Zinc	ND		33.0	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.144	0.359	mg/kg dry	1	2618090	05/29/2024	05/30/2024	U
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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

FLR01@4

5/20/2024 1:05:00PM

Origins Laboratory, Inc.
Y405607-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Boron (DTPA Sorbitol)

Boron	0.221		0.0995	mg/L	1	B4E2109	05/21/2024	05/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E2201	05/22/2024	05/24/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 84.2% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2103	05/21/2024	05/22/2024	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 106% 70-130 " " "

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

FLR01@4

5/20/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405607-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.0 %		70-130			B4E21 03	05/21/2024	05/22/2024	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.75		0.499	meq/L	10	[CALC]	05/22/2024	05/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.553		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E2133	05/21/2024	05/25/2024	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 - Ocoma C17-15

FLR01@4

5/20/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405607-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E2133	05/21/2024	05/25/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	90.5 %		60-130						
Surrogate: Anthracene-d10	98.1 %		60-130						
Surrogate: Pyrene-d10	107 %		60-130						
Surrogate: Benzo (a) pyrene-d12	104 %		60-130						

pH in Soil by 9045D

pH	8.41			pH Units	1	B4E2228	05/22/2024	05/23/2024	
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SAR by 20B Saturated Paste

SAR	0.536		0.0100	SAR	1	B4E2217	05/22/2024	05/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.306		0.00500	mmhos/cm	1	B4E2228	05/22/2024	05/23/2024	
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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 Verysen
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

FLR01@4

5/20/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405607-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.85		0.266	mg/kg	10	B4E2044	05/21/2024	05/22/2024	
Barium	56.3		9.16	"	"	"	"	"	
Cadmium	0.125		0.0916	"	"	"	"	"	
Copper	ND		9.16	"	"	"	"	"	
Lead	10.2		0.916	"	"	"	"	"	
Nickel	7.44		0.916	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	
Silver	ND		0.0916	"	"	"	"	"	
Zinc	37.0		33.9	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.144	0.359	mg/kg dry	1	2618090	05/29/2024	05/30/2024	U
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

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 B4E2103 - EPA 5030 (soil)

Blank (B4E2103-BLK1)

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

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		96.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	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 - Ocoma C17-15

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 B4E2103 - EPA 5030 (soil)

LCS (B4E2103-BS1)

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

1,2,4-Trimethylbenzene	0.0971	0.00200	mg/kg	0.100		97.1	70-130			
1,3,5-Trimethylbenzene	0.0993	0.00200	"	0.100		99.3	70-130			
Benzene	0.0969	0.00200	"	0.100		96.9	70-130			
Ethylbenzene	0.0935	0.00200	"	0.100		93.5	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.0944	0.00200	"	0.100		94.4	70-130			
o-Xylene	0.0927	0.00200	"	0.100		92.7	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

Origins Laboratory, Inc.



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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

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 B4E2103 - EPA 5030 (soil)

Matrix Spike (B4E2103-MS1)

Source: Y405584-01

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

1,2,4-Trimethylbenzene	0.0706	0.00200	mg/kg	0.100	ND	70.6	70-130			
1,3,5-Trimethylbenzene	0.0717	0.00200	"	0.100	ND	71.7	70-130			
Benzene	0.0803	0.00200	"	0.100	ND	80.3	70-130			
Ethylbenzene	0.0748	0.00200	"	0.100	ND	74.8	70-130			
Naphthalene	0.0732	0.00380	"	0.100	ND	73.2	70-130			
Toluene	0.0749	0.00200	"	0.100	ND	74.9	70-130			
o-Xylene	0.0760	0.00200	"	0.100	ND	76.0	70-130			
m,p-Xylene	0.151	0.00400	"	0.200	ND	75.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 - Ocoma C17-15

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 B4E2103 - EPA 5030 (soil)

Matrix Spike Dup (B4E2103-MSD1)

Source: Y405584-01

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

1,2,4-Trimethylbenzene	0.0525	0.00200	mg/kg	0.100	ND	52.5	70-130	29.4	20	QM-07
1,3,5-Trimethylbenzene	0.0580	0.00200	"	0.100	ND	58.0	70-130	21.2	20	QM-07
Benzene	0.0774	0.00200	"	0.100	ND	77.4	70-130	3.73	20	
Ethylbenzene	0.0644	0.00200	"	0.100	ND	64.4	70-130	14.9	20	QM-07
Naphthalene	0.0691	0.00380	"	0.100	ND	69.1	70-130	5.74	20	QM-07
Toluene	0.0733	0.00200	"	0.100	ND	73.3	70-130	2.13	20	
o-Xylene	0.0672	0.00200	"	0.100	ND	67.2	70-130	12.3	20	QM-07
m,p-Xylene	0.126	0.00400	"	0.200	ND	63.0	70-130	18.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 - Ocoma C17-15

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 B4E2201 - EPA 3550B

Blank (B4E2201-BLK1)

Prepared: 05/22/2024 Analyzed: 05/24/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.2	50-150			

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 - Ocoma C17-15

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 B4E2201 - EPA 3550B

LCS (B4E2201-BS1)

Prepared: 05/22/2024 Analyzed: 05/24/2024

Diesel (C10-C28)	858	50.0	mg/kg	1000		85.8	70-130			
Residual Range Organics (C28-C40)	930	200	"	1000		93.0	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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 - Ocoma C17-15

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 B4E2201 - EPA 3550B

Matrix Spike (B4E2201-MS1)

Source: Y405583-01

Prepared: 05/22/2024 Analyzed: 05/24/2024

Diesel (C10-C28)	925	50.0	mg/kg	1000	ND	92.5	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.

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Entrada Consulting Group
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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

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 B4E2201 - EPA 3550B

Matrix Spike Dup (B4E2201-MSD1)

Source: Y405583-01

Prepared: 05/22/2024 Analyzed: 05/24/2024

Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130	3.87	35	
Residual Range Organics (C28-C40)	972	200	"	1000	ND	97.2	70-130	3.39	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

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 B4E2044 - EPA 3050B

Blank (B4E2044-BLK1)

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

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 (B4E2044-BS1)

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

Arsenic	5.13	0.290	mg/kg	5.00	103	80-120
Barium	545	10.0	"	500	109	80-120
Cadmium	5.50	0.100	"	5.00	110	80-120
Copper	52.5	10.0	"	50.0	105	80-120
Lead	5.27	1.00	"	5.00	105	80-120
Nickel	5.26	1.00	"	5.00	105	80-120
Selenium	9.90	0.260	"	9.50	104	80-120
Silver	5.11	0.100	"	5.00	102	80-120
Zinc	52.6	37.0	"	50.0	105	80-120

Matrix Spike (B4E2044-MS1)

Source: Y405604-01

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

Origins Laboratory, Inc.



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Entrada Consulting Group
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 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

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 B4E2044 - EPA 3050B

Matrix Spike (B4E2044-MS1)

Source: Y405604-01

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

Arsenic	8.43	0.278	mg/kg	4.79	3.29	107	75-125			
Barium	605	9.59	"	479	64.0	113	75-125			
Cadmium	5.54	0.0959	"	4.79	0.348	108	75-125			
Copper	60.2	9.59	"	47.9	11.9	101	75-125			
Lead	21.7	0.959	"	4.79	19.4	49.5	75-125			QM-07
Nickel	11.4	0.959	"	4.79	5.83	117	75-125			
Selenium	8.91	0.249	"	9.11	0.205	95.6	75-125			
Silver	4.76	0.0959	"	4.79	0.142	96.3	75-125			
Zinc	112	35.5	"	47.9	52.9	123	75-125			

Matrix Spike Dup (B4E2044-MSD1)

Source: Y405604-01

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

Arsenic	7.38	0.279	mg/kg	4.81	3.29	85.1	75-125	13.3	20	
Barium	591	9.61	"	481	64.0	110	75-125	2.22	20	
Cadmium	5.41	0.0961	"	4.81	0.348	105	75-125	2.40	20	
Copper	59.4	9.61	"	48.1	11.9	98.7	75-125	1.32	20	
Lead	21.4	0.961	"	4.81	19.4	42.4	75-125	1.56	20	QM-07
Nickel	9.97	0.961	"	4.81	5.83	86.1	75-125	13.6	20	
Selenium	9.13	0.250	"	9.13	0.205	97.7	75-125	2.36	20	
Silver	5.05	0.0961	"	4.81	0.142	102	75-125	5.89	20	
Zinc	97.9	35.6	"	48.1	52.9	93.7	75-125	13.3	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 - Ocoma C17-15

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 B4E2133 - EPA 3580

Blank (B4E2133-BLK1)

Prepared: 05/21/2024 Analyzed: 05/24/2024

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		102	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

LCS (B4E2133-BS1)

Prepared: 05/21/2024 Analyzed: 05/24/2024

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.202	0.002	"	0.200		101	70-130			
Acenaphthene	0.204	0.020	"	0.200		102	70-130			
Anthracene	0.218	0.020	"	0.200		109	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

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 B4E2133 - EPA 3580

LCS (B4E2133-BS1)

Prepared: 05/21/2024 Analyzed: 05/24/2024

Benzo (a) anthracene	0.213	0.005	mg/kg	0.200		106	70-130			
Benzo (a) pyrene	0.205	0.020	"	0.200		102	70-130			
Benzo (b) fluoranthene	0.186	0.020	"	0.200		92.9	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200		94.0	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200		83.9	70-130			
Chrysene	0.209	0.020	"	0.200		104	70-130			
Dibenz (a,h) anthracene	0.208	0.020	"	0.200		104	70-130			
Fluoranthene	0.206	0.020	"	0.200		103	70-130			
Fluorene	0.212	0.020	"	0.200		106	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		103	70-130			
Naphthalene	0.205	0.002	"	0.200		102	70-130			
Phenanthrene	0.193	0.020	"	0.200		96.6	70-130			
Pyrene	0.216	0.020	"	0.200		108	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.6	60-130			

Matrix Spike (B4E2133-MS1)

Source: Y405604-02

Prepared: 05/21/2024 Analyzed: 05/24/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	ND	97.3	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200	ND	97.1	70-130			
Acenaphthene	0.192	0.020	"	0.200	0.001	95.7	70-130			
Anthracene	0.189	0.020	"	0.200	ND	94.7	70-130			
Benzo (a) anthracene	0.189	0.005	"	0.200	0.0007	94.2	70-130			
Benzo (a) pyrene	0.213	0.020	"	0.200	0.002	105	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200	0.0005	94.5	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.002	100	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

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 B4E2133 - EPA 3580

Matrix Spike (B4E2133-MS1)

Source: Y405604-02

Prepared: 05/21/2024 Analyzed: 05/24/2024

Benzo (k) fluoranthene	0.178	0.020	mg/kg	0.200	0.0007	88.4	70-130			
Chrysene	0.197	0.020	"	0.200	0.002	97.7	70-130			
Dibenz (a,h) anthracene	0.208	0.020	"	0.200	ND	104	70-130			
Fluoranthene	0.185	0.020	"	0.200	0.0004	92.0	70-130			
Fluorene	0.182	0.020	"	0.200	0.0009	90.8	70-130			
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200	ND	111	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.185	0.020	"	0.200	ND	92.6	70-130			
Pyrene	0.196	0.020	"	0.200	ND	98.0	70-130			
Surrogate: Fluorene-d10	180		ug/kg	200		92.4	60-130			
Surrogate: Anthracene-d10	180		"	200		92.4	60-130			
Surrogate: Pyrene-d10	190		"	200		95.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B4E2133-MSD1)

Source: Y405604-02

Prepared: 05/21/2024 Analyzed: 05/24/2024

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	ND	98.5	70-130	1.23	20	
2-Methylnaphthalene	0.202	0.002	"	0.200	ND	101	70-130	3.87	20	
Acenaphthene	0.195	0.020	"	0.200	0.001	96.8	70-130	1.15	20	
Anthracene	0.201	0.020	"	0.200	ND	101	70-130	6.08	20	
Benzo (a) anthracene	0.232	0.005	"	0.200	0.0007	116	70-130	20.4	20	QR-02
Benzo (a) pyrene	0.215	0.020	"	0.200	0.002	106	70-130	0.761	20	
Benzo (b) fluoranthene	0.213	0.020	"	0.200	0.0005	106	70-130	11.8	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.002	103	70-130	2.41	20	
Benzo (k) fluoranthene	0.175	0.020	"	0.200	0.0007	87.2	70-130	1.34	20	
Chrysene	0.214	0.020	"	0.200	0.002	106	70-130	8.28	20	
Dibenz (a,h) anthracene	0.211	0.020	"	0.200	ND	105	70-130	1.27	20	
Fluoranthene	0.212	0.020	"	0.200	0.0004	106	70-130	14.0	20	

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 - Ocoma C17-15

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 B4E2133 - EPA 3580

Matrix Spike Dup (B4E2133-MSD1)

Source: Y405604-02

Prepared: 05/21/2024 Analyzed: 05/24/2024

Fluorene	0.204	0.020	mg/kg	0.200	0.0009	102	70-130	11.3	20	
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	ND	103	70-130	7.09	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	0.854	20	
Phenanthrene	0.194	0.020	"	0.200	ND	97.1	70-130	4.76	20	
Pyrene	0.236	0.020	"	0.200	ND	118	70-130	18.5	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	220		"	200		111	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	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 - Ocoma C17-15

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 B4E2109 - DTPA Sorbitol Preparation

Blank (B4E2109-BLK1)

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

Boron ND 0.100 mg/L

Duplicate (B4E2109-DUP1)

Source: Y405584-01

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

Boron 0.349 0.102 mg/L 0.347 0.785 50

Batch B4E2217 - Saturated Paste Metals

Blank (B4E2217-BLK1)

Prepared: 05/22/2024 Analyzed: 05/23/2024

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 (B4E2217-DUP1)

Source: Y405606-04

Prepared: 05/22/2024 Analyzed: 05/23/2024

SAR ND 0.0100 SAR 0.998 200

Calcium PPM 47.3 10.0 mg/L 48.4 2.13 50

Magnesium PPM 20.8 10.0 " 21.1 1.33 50

Sodium PPM 30.5 10.0 " 33.0 7.86 50

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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

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 B4E2228 - Saturated Paste pH/EC

Blank (B4E2228-BLK1)

Prepared: 05/22/2024 Analyzed: 05/23/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4E2228-DUP1)

Source: Y405606-04

Prepared: 05/22/2024 Analyzed: 05/23/2024

pH 8.46 pH Units 8.38 0.950 25

Specific Conductance (EC) 0.895 0.00500 mmhos/cm 0.853 4.84 25

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - Ocoma C17-15

SW846_7196A Hexavalent Chromium - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2618090 - SW846 3060A

BLANK (1205746209-BLK)

Prepared: 05/29/2024 Analyzed: 05/30/2024

Hexavalent Chromium	ND	0.299	mg/kg				-			U
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LCS (1205746210-BKS)

Prepared: 05/29/2024 Analyzed: 05/30/2024

Hexavalent Chromium	2.77	0.280	mg/kg	2.80		99	80-120			
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DUP (1205746211 D)

Source: Y405607-01

Prepared: 05/29/2024 Analyzed: 05/30/2024

Hexavalent Chromium	ND	0.359	mg/kg dry		<0.144		0-50	N/A	50	U
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MS (1205746212 S)

Source: Y405607-01

Prepared: 05/29/2024 Analyzed: 05/30/2024

Hexavalent Chromium	3.28	0.359	mg/kg dry	3.59	<0.144	90.9	75-125			
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DUP (1205746213 D)

Source: 668791001

Prepared: 05/29/2024 Analyzed: 05/30/2024

Hexavalent Chromium	ND	0.255	mg/kg dry		<0.102		0-50	N/A	50	U
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MS (1205746214 S)

Source: 668791001

Prepared: 05/29/2024 Analyzed: 05/30/2024

Hexavalent Chromium	1.68	0.255	mg/kg dry	2.55	<0.102	64.3	75-125			
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ILCS (1205746215-ILCS)

Prepared: 05/29/2024 Analyzed: 05/30/2024

Hexavalent Chromium	5.20	0.240	mg/kg	5.00		104	80-120			
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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 Veryser
Project Number: [none]
Project: Chevron - Ocoma C17-15

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

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.



Jen Pellegrini, Project Manager

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