



Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

October 14, 2024

Project Name - Chevron - MDM 33-14

Project Number - [none]

Attached are your analytical results for Chevron - MDM 33-14 received by Origins Laboratory September 23, 2024. This project is associated with Origins project number E409700-01.

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
303.433.1322
projectmanager@originslab.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 - MDM 33-14

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	E409700-01	Soil	September 23, 2024 9:00	09/23/2024 16:45
FLR01@4	E409700-02	Soil	September 23, 2024 9:05	09/23/2024 16:45

Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY

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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14



ORIGINS WORK ORDER #

EU09700

Page 1 of 1

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

Temp Received - 7.0

Received on ice? Yes No

Standard

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis		Comments
							Table 71		
1	WHL01	9/23/24	0800	2	S	UMP	X		
2	FLR01		0915						
3	WHL-N04		0910						Hold
4	WHL-W04		0915						Hold
5	WHL-S04		0920						Hold
6									
7									
8									
9									
10									

Reinforced By:	Date:	Time:	Received By:	Date:	Time:
<i>[Signature]</i>	9/23/24	1400	VK	9/23/24	1415
VK	09/23/24	1750	[Signature]	9/23/24	1820

Turnaround Time
 SAME DAY
 48 Hr 72 Hr
 Standard

Telephone Number: 303-211-8123
 Email Address: Entrada Distribution, c/o: 80211-1322, Denver, CO
 Project Manager: Chelsea Verysen
 Project Name: MDM 33-14
 Project Number:
 Collected By: Tom Larson
 Invoice Billing Info: Bill to Chevron (Dust Sample)
 S-Sol | SO-Solid | O=Oil | A=Air | G=Gas | U=Umpres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide
 W=Water
 W-Waste Water
 S=Surface Water
 G=Groundwater

Origins Laboratory
[Signature]

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ORIGINS LABORATORY

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

Chelsea Verysen
Project Number: [none]
Project: Chevron - MDM 33-14

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

Sample Receipt Checklist

Origins Work Order: E409700 Client: Entrada
Client Project ID: MDM 33-14

Checklist Completed by: AN / WS Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/Time completed: 9/24/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 7.2 °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⁾ ?				SD
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubbles) present? If yes, contact client and note in narrative.			/	times do not match N/A 9/24/24
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments). (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄ / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) WS ghama Date/Time Reviewed 1 1

Origins Laboratory



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ORIGINS LABORATORY

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

Chelsea Verysen
Project Number: [none]
Project: Chevron - MDM 33-14

WH01@6

9/23/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E409700-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.607	0.0985	mg/L	1	B412513	09/25/2024	09/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B412549	09/25/2024	09/27/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.3 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B412544	09/25/2024	09/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	93.5 %	70-130	"	"	"	"	"	"

Origins Laboratory



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Verysen

Project Number: [none]

Project: Chevron - MDM 33-14

WH01@6

9/23/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409700-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	105 %	70-130				B41254 4	09/25/2024	09/29/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.39	0.499	meq/L	10	[CALC]		09/25/2024	09/26/2024	
Magnesium	1.04	0.823	"	"	"	"	"	"	
Sodium	2.33	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B412658		09/26/2024	09/28/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Verysen

Project Number: [none]

Project: Chevron - MDM 33-14

WH01@6

9/23/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E409700-01 (Soil)

PAH by EPA 8270E extracted via 3580A

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B412658	09/26/2024	09/28/2024	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.1 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	89.1 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.40		pH Units	1	B412525	09/25/2024	09/26/2024	
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SAR by 20B Saturated Paste

SAR	2.11	0.0100	SAR	1	B412519	09/25/2024	09/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.559	0.00500	mmhos/cm	1	B412525	09/25/2024	09/26/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.18	0.248	mg/kg	10	B412630	09/26/2024	09/28/2024	
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Entrada Consulting Group
330 Grand Ave. Unit C
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Chelsea Verysen
Project Number: [none]
Project: Chevron - MDM 33-14

WH01@6

9/23/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E409700-01 (Soil)

Table 915 metals by EPA 6020B

Barium	90.4		8.56	mg/kg	10	B412630	09/26/2024	09/28/2024	
Cadmium	0.187		0.0856	"	"	"	"	"	
Copper	10.6		8.56	"	"	"	"	"	
Lead	9.79		0.856	"	"	"	"	"	
Nickel	9.52		0.856	"	"	"	"	"	
Selenium	ND		0.222	"	"	"	"	"	
Silver	ND		0.0856	"	"	"	"	"	
Zinc	42.6		31.7	"	"	"	"	"	

Total Metals 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L775603	09/23/2024	10/01/2024	
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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Verysen
Project Number: [none]
Project: Chevron - MDM 33-14

FLR01@4

9/23/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E409700-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.622		0.0998	mg/L	1	B412513	09/25/2024	09/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B412549	09/25/2024	09/27/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B412544	09/25/2024	09/29/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.4 %		70-130			"	"	"	

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

FLR01@4

9/23/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409700-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	103 %	70-130				B41254 4	09/25/2024	09/29/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.67	0.499	meq/L	10	[CALC]		09/25/2024	09/26/2024	
Magnesium	0.932	0.823	"	"	"	"	"	"	
Sodium	0.896	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B412658		09/26/2024	09/28/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Verysen

Project Number: [none]

Project: Chevron - MDM 33-14

FLR01@4

9/23/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409700-02 (Soil)

PAH by EPA 8270E extracted via 3580A

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4I2658	09/26/2024	09/28/2024	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.4 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	90.9 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.36		pH Units	1	B4I2525	09/25/2024	09/26/2024	
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SAR by 20B Saturated Paste

SAR	0.785	0.0100	SAR	1	B4I2519	09/25/2024	09/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.415	0.00500	mmhos/cm	1	B4I2525	09/25/2024	09/26/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.78	0.268	mg/kg	10	B4I2630	09/26/2024	09/28/2024	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

FLR01@4

9/23/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409700-02 (Soil)

Table 915 metals by EPA 6020B

Barium	124		9.24	mg/kg	10	B412630	09/26/2024	09/28/2024	
Cadmium	0.209		0.0924	"	"	"	"	"	
Copper	12.3		9.24	"	"	"	"	"	
Lead	11.1		0.924	"	"	"	"	"	
Nickel	12.1		0.924	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0924	"	"	"	"	"	
Zinc	50.7		34.2	"	"	"	"	"	

Total Metals 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L775603	09/23/2024	10/01/2024	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412544 - EPA 5030 (soil)

Blank (B412544-BLK1)

Prepared: 09/25/2024 Analyzed: 09/28/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412544 - EPA 5030 (soil)

LCS (B412544-BS1)

Prepared: 09/25/2024 Analyzed: 09/28/2024

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.0965	0.00380	"	0.100		96.5	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.210	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412544 - EPA 5030 (soil)

Matrix Spike (B412544-MS1)

Source: E409665-21

Prepared: 09/25/2024 Analyzed: 09/28/2024

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Benzene	0.117	0.00200	"	0.100	ND	117	70-130			
Ethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Naphthalene	0.0965	0.00380	"	0.100	ND	96.5	70-130			
Toluene	0.111	0.00200	"	0.100	ND	111	70-130			
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130			
m,p-Xylene	0.226	0.00400	"	0.200	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412544 - EPA 5030 (soil)

Matrix Spike Dup (B412544-MSD1)

Source: E409665-21

Prepared: 09/25/2024 Analyzed: 09/28/2024

1,2,4-Trimethylbenzene	0.0901	0.00200	mg/kg	0.100	ND	90.1	70-130	20.3	20	QR-02
1,3,5-Trimethylbenzene	0.0893	0.00200	"	0.100	ND	89.3	70-130	20.6	20	QR-02
Benzene	0.0964	0.00200	"	0.100	ND	96.4	70-130	19.4	20	
Ethylbenzene	0.0951	0.00200	"	0.100	ND	95.1	70-130	18.2	20	
Naphthalene	0.0735	0.00380	"	0.100	ND	73.5	70-130	27.0	20	QR-02
Toluene	0.0897	0.00200	"	0.100	ND	89.7	70-130	21.6	20	QR-02
o-Xylene	0.0924	0.00200	"	0.100	ND	92.4	70-130	19.8	20	
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.6	70-130	18.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Verysen

Project Number: [none]

Project: Chevron - MDM 33-14

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412549 - EPA 3550B

Blank (B412549-BLK1)

Prepared: 09/25/2024 Analyzed: 09/27/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.1	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412549 - EPA 3550B

LCS (B412549-BS1)

Prepared: 09/25/2024 Analyzed: 09/27/2024

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412549 - EPA 3550B

Matrix Spike (B412549-MS1)

Source: E409625-01

Prepared: 09/25/2024 Analyzed: 09/27/2024

Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

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 Project Number: [none]
 Project: Chevron - MDM 33-14

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412549 - EPA 3550B

Matrix Spike Dup (B412549-MSD1)

Source: E409625-01

Prepared: 09/25/2024 Analyzed: 09/27/2024

Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	0.626	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	1.92	35	
Surrogate: o-Terphenyl	49		"	49.8		98.0	50-150			

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 Project Number: [none]
 Project: Chevron - MDM 33-14

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I2630 - EPA 3050B

Blank (B4I2630-BLK1)

Prepared: 09/26/2024 Analyzed: 09/28/2024

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 (B4I2630-BS1)

Prepared: 09/26/2024 Analyzed: 09/28/2024

Arsenic	4.39	0.290	mg/kg	5.00		87.9	80-120			
Barium	454	10.0	"	500		90.8	80-120			
Cadmium	5.03	0.100	"	5.00		101	80-120			
Copper	50.9	10.0	"	50.0		102	80-120			
Lead	4.71	1.00	"	5.00		94.1	80-120			
Nickel	4.50	1.00	"	5.00		89.9	80-120			
Selenium	4.92	0.260	"	5.00		98.3	80-120			
Silver	4.82	0.100	"	5.00		96.5	80-120			
Zinc	51.5	37.0	"	50.0		103	80-120			

Matrix Spike (B4I2630-MS1)

Source: E409640-03

Prepared: 09/26/2024 Analyzed: 09/28/2024

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Entrada Consulting Group
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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I2630 - EPA 3050B

Matrix Spike (B4I2630-MS1)

Source: E409640-03

Prepared: 09/26/2024 Analyzed: 09/28/2024

Arsenic	6.72	0.264	mg/kg	4.55	2.08	102	75-125			
Barium	539	9.09	"	455	65.7	104	75-125			
Cadmium	5.42	0.0909	"	4.55	0.153	116	75-125			
Copper	56.4	9.09	"	45.5	6.86	109	75-125			
Lead	29.8	0.909	"	4.55	22.5	160	75-125			QM-07
Nickel	9.88	0.909	"	4.55	5.44	97.7	75-125			
Selenium	4.97	0.236	"	4.55	0.112	107	75-125			
Silver	5.06	0.0909	"	4.55	0.0439	110	75-125			
Zinc	89.2	33.6	"	45.5	42.3	103	75-125			

Matrix Spike Dup (B4I2630-MSD1)

Source: E409640-03

Prepared: 09/26/2024 Analyzed: 09/28/2024

Arsenic	6.64	0.260	mg/kg	4.49	2.08	102	75-125	1.17	20	
Barium	485	8.97	"	449	65.7	93.5	75-125	10.4	20	
Cadmium	4.92	0.0897	"	4.49	0.153	106	75-125	9.75	20	
Copper	51.6	8.97	"	44.9	6.86	99.7	75-125	8.94	20	
Lead	30.7	0.897	"	4.49	22.5	181	75-125	2.87	20	QM-07
Nickel	10.2	0.897	"	4.49	5.44	106	75-125	3.02	20	
Selenium	4.54	0.233	"	4.49	0.112	98.7	75-125	8.96	20	
Silver	4.67	0.0897	"	4.49	0.0439	103	75-125	7.93	20	
Zinc	89.1	33.2	"	44.9	42.3	104	75-125	0.132	20	

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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412658 - EPA 3580

Blank (B412658-BLK1)

Prepared: 09/26/2024 Analyzed: 09/28/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	190		ug/kg	200		96.9	60-130			
Surrogate: Anthracene-d10	180		"	200		91.2	60-130			
Surrogate: Pyrene-d10	220		"	200		111	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

LCS (B412658-BS1)

Prepared: 09/26/2024 Analyzed: 09/28/2024

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200		97.8	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200		97.8	70-130			
Acenaphthene	0.203	0.020	"	0.200		101	70-130			
Anthracene	0.175	0.020	"	0.200		87.3	70-130			

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 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412658 - EPA 3580

LCS (B412658-BS1)

Prepared: 09/26/2024 Analyzed: 09/28/2024

Benzo (a) anthracene	0.201	0.005	mg/kg	0.200		100	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200		104	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200		98.6	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200		95.5	70-130			
Benzo (k) fluoranthene	0.191	0.020	"	0.200		95.7	70-130			
Chrysene	0.185	0.020	"	0.200		92.6	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200		94.4	70-130			
Fluoranthene	0.168	0.020	"	0.200		84.1	70-130			
Fluorene	0.199	0.020	"	0.200		99.7	70-130			
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200		96.0	70-130			
Naphthalene	0.206	0.002	"	0.200		103	70-130			
Phenanthrene	0.189	0.020	"	0.200		94.6	70-130			
Pyrene	0.214	0.020	"	0.200		107	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.6	60-130			
Surrogate: Anthracene-d10	180		"	200		91.2	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B412658-MS1)

Source: E409659-01

Prepared: 09/26/2024 Analyzed: 09/28/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	ND	97.4	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.8	70-130			
Acenaphthene	0.200	0.020	"	0.200	ND	100	70-130			
Anthracene	0.179	0.020	"	0.200	ND	89.4	70-130			
Benzo (a) anthracene	0.191	0.005	"	0.200	ND	95.3	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	100	70-130			
Benzo (b) fluoranthene	0.194	0.020	"	0.200	ND	96.9	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	ND	94.8	70-130			

Origins Laboratory

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

Chelsea Verysen
Project Number: [none]
Project: Chevron - MDM 33-14

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I2658 - EPA 3580

Matrix Spike (B4I2658-MS1)		Source: E409659-01			Prepared: 09/26/2024 Analyzed: 09/28/2024					
Benzo (k) fluoranthene	0.185	0.020	mg/kg	0.200	0.0008	92.3	70-130			
Chrysene	0.191	0.020	"	0.200	ND	95.6	70-130			
Dibenz (a,h) anthracene	0.191	0.020	"	0.200	ND	95.6	70-130			
Fluoranthene	0.180	0.020	"	0.200	ND	90.0	70-130			
Fluorene	0.199	0.020	"	0.200	0.001	98.9	70-130			
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	ND	94.2	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.7	70-130			
Pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	180		"	200		89.1	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B4I2658-MSD1)		Source: E409659-01			Prepared: 09/26/2024 Analyzed: 09/28/2024					
1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	ND	98.7	70-130	1.31	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	98.2	70-130	0.399	20	
Acenaphthene	0.200	0.020	"	0.200	ND	100	70-130	0.136	20	
Anthracene	0.182	0.020	"	0.200	ND	90.9	70-130	1.59	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	ND	94.7	70-130	0.558	20	
Benzo (a) pyrene	0.199	0.020	"	0.200	ND	99.4	70-130	0.988	20	
Benzo (b) fluoranthene	0.186	0.020	"	0.200	ND	93.0	70-130	4.16	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.3	70-130	0.604	20	
Benzo (k) fluoranthene	0.194	0.020	"	0.200	0.0008	96.4	70-130	4.32	20	
Chrysene	0.194	0.020	"	0.200	ND	96.8	70-130	1.25	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.6	70-130	1.12	20	
Fluoranthene	0.180	0.020	"	0.200	ND	90.1	70-130	0.194	20	

Origins Laboratory



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 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B412658 - EPA 3580

Matrix Spike Dup (B412658-MSD1)

Source: E409659-01

Prepared: 09/26/2024 Analyzed: 09/28/2024

Fluorene	0.203	0.020	mg/kg	0.200	0.001	101	70-130	1.98	20	
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	95.2	70-130	1.06	20	
Naphthalene	0.203	0.002	"	0.200	ND	101	70-130	0.322	20	
Phenanthrene	0.186	0.020	"	0.200	ND	92.9	70-130	0.876	20	
Pyrene	0.199	0.020	"	0.200	ND	99.6	70-130	3.37	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		93.1	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Verysen

Project Number: [none]

Project: Chevron - MDM 33-14

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I2513 - DTPA Sorbitol Preparation

Blank (B4I2513-BLK1)

Prepared: 09/25/2024 Analyzed: 09/26/2024

Boron ND 0.100 mg/L

Duplicate (B4I2513-DUP1)

Source: E409649-01

Prepared: 09/25/2024 Analyzed: 09/26/2024

Boron 0.892 0.0984 mg/L 0.869 2.54 50

Batch B4I2519 - Saturated Paste Metals

Blank (B4I2519-BLK1)

Prepared: 09/25/2024 Analyzed: 09/26/2024

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 (B4I2519-DUP1)

Source: E409636-03

Prepared: 09/25/2024 Analyzed: 09/26/2024

SAR ND 0.0100 SAR 3.94 200

Calcium PPM 475 10.0 mg/L 473 0.536 50

Magnesium PPM 185 10.0 " 174 6.14 50

Sodium PPM 405 10.0 " 394 2.60 50

Origins Laboratory

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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4I2525 - Saturated Paste pH/EC

Blank (B4I2525-BLK1)

Prepared: 09/25/2024 Analyzed: 09/26/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4I2525-DUP1)

Source: E409636-03

Prepared: 09/25/2024 Analyzed: 09/26/2024

Specific Conductance (EC)	4.26	0.00500	mmhos/cm		4.37		2.58	25	
pH	8.06		pH Units		8.07		0.124	25	

Origins Laboratory

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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - MDM 33-14

**Total Metals 7196A - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L775603 -

DUP (L 97516-DUP)

Source: 97516

Prepared: Analyzed: 10/01/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
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MS (L 97516-MS)

Source: 97516

Prepared: Analyzed: 10/01/2024

Chromium, Hexavalent	29	2.5	mg/Kg	38.6	< 0.244	75	75-125			
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LCS (LCS)

Prepared: Analyzed: 10/01/2024

Chromium, Hexavalent	6.22	0.5	mg/Kg	8		78	75-125			
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LRB (LRB)

Prepared: Analyzed: 10/01/2024

Chromium, Hexavalent	ND	0.5	mg/Kg			-				
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Origins Laboratory

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

Chelsea Verysen
Project Number: [none]
Project: Chevron - MDM 33-14

Notes and Definitions

- U Sample is Non-Detect.
- 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.

Origins Laboratory



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