



Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

October 14, 2024

Project Name - Chevron - DL Phillips 24-31

Project Number - [none]

Attached are your analytical results for Chevron - DL Phillips 24-31 received by Origins Laboratory September 04, 2024. This project is associated with Origins project number E409100-01.

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 - DL Phillips 24-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	E409100-01	Soil	September 4, 2024 14:00	09/04/2024 17:15
FLR01@4	E409100-02	Soil	September 4, 2024 14:05	09/04/2024 17:15

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 - DL Phillips 24-31

Client: Entrada
 Project Manager: Chelsea Verysen
 Project Name: DL Phillips 24-31
 Key: W=Water


Address: _____
 Project Number: _____
 GIN=Groundwater

Telephone Number: 303-319-8703
 Collected By: Tim Leide
 Invoice/Billing Info: Bill to Denver Coast Smid
 Email Address: Entrada Distribution c/o: Robert 27@chevron.com
 W=Waste Water
 L=Liquid

S=Soil | SP=Solid | O=Oil | A=Air | G=Gas | U=Impres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
						Turnaround Time	Temp Received	
1	W40106	9/4/24	1400	2	S	UWP	X	
2	F-LR0104		1405	1				
3	W401N04		1410	1				Hold
4	W401E04		1415	1				Hold
5	W401W04		1420	1				Hold
6								
7								
8								
9								
10								

Relinquished By: [Signature] Date: 9/4/24 Time: 1600
 Received By: [Signature] Date: 09/04/24 Time: 1548
 Temp Received: 2.3 Received On Ice? Yes No

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 - DL Phillips 24-31

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

Sample Receipt Checklist

Origins Work Order: E409100 Client: Entrada
Client Project ID: DL Phillips

Checklist Completed by: EH Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 9/14/24 Airbill #: N/A

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

Cooler Number/Temperature: 1123 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 bubble) present? If yes, contact client and note in narrative.			/	
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 Na ₂ O 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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) AK Date/Time Reviewed 9/16/24

Origins Laboratory

J. Bynon

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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

WH01@6
9/4/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409100-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.417		0.0999	mg/L	1	B410616	09/06/2024	09/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B410630	09/06/2024	09/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	105 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B410633	09/06/2024	09/08/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	93.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.9 %		70-130			"	"	"	

Origins Laboratory



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 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

WH01@6
9/4/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409100-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	82.9 %	70-130		B41063 3	09/06/2024	09/08/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.10	0.499	meq/L	10	[CALC]	09/06/2024	09/09/2024
Magnesium	1.50	0.823	"	"	"	"	"
Sodium	1.08	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B410927	09/09/2024	09/09/2024	
2-Methylnaphthalene	0.002	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

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Chelsea Verysen
Project Number: [none]
Project: Chevron - DL Phillips 24-31

WH01@6

9/4/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409100-01 (Soil)

PAH by EPA 8270E extracted via 3580A

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B410927	09/09/2024	09/09/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.3 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.53			pH Units	1	B410621	09/06/2024	09/07/2024	
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SAR by 20B Saturated Paste

SAR	0.944		0.0100	SAR	1	B410610	09/06/2024	09/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.376		0.00500	mmhos/cm	1	B410621	09/06/2024	09/07/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.02		0.272	mg/kg	10	B410524	09/05/2024	09/09/2024	
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Origins Laboratory



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Chelsea Verysen
Project Number: [none]
Project: Chevron - DL Phillips 24-31

WH01@6

9/4/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409100-01 (Soil)

Table 915 metals by EPA 6020B

Barium	130		9.37	mg/kg	10	B410524	09/05/2024	09/09/2024	
Cadmium	0.147		0.0937	"	"	"	"	"	
Copper	11.4		9.37	"	"	"	"	"	
Lead	13.9		0.937	"	"	"	"	"	
Nickel	12.7		0.937	"	"	"	"	"	
Selenium	ND		0.244	"	"	"	"	"	
Silver	ND		0.0937	"	"	"	"	"	
Zinc	43.7		34.7	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.145	0.363	mg/kg dry	1	2679368	10/02/2024	10/07/2024	U
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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 - DL Phillips 24-31

FLR01@4

9/4/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409100-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.374		0.0991	mg/L	1	B410616	09/06/2024	09/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B410630	09/06/2024	09/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	101 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B410633	09/06/2024	09/08/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	93.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.3 %		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 - DL Phillips 24-31

FLR01@4

9/4/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409100-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	85.2 %	70-130			B41063 3	09/06/2024	09/08/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.00	0.499	meq/L	10	[CALC]	09/06/2024	09/09/2024
Magnesium	1.45	0.823	"	"	"	"	"
Sodium	0.575	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B410927	09/09/2024	09/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

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 - DL Phillips 24-31

FLR01@4

9/4/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409100-02 (Soil)

PAH by EPA 8270E extracted via 3580A

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B410927	09/09/2024	09/09/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.54			pH Units	1	B410621	09/06/2024	09/07/2024	
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SAR by 20B Saturated Paste

SAR	0.437		0.0100	SAR	1	B410610	09/06/2024	09/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.393		0.00500	mmhos/cm	1	B410621	09/06/2024	09/07/2024	
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Table 915 metals by EPA 6020B

Arsenic	33.5		0.256	mg/kg	10	B410524	09/05/2024	09/09/2024	
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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Verysen
Project Number: [none]
Project: Chevron - DL Phillips 24-31

FLR01@4

9/4/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409100-02 (Soil)

Table 915 metals by EPA 6020B

Barium	163		8.81	mg/kg	10	B410524	09/05/2024	09/09/2024	
Cadmium	0.161		0.0881	"	"	"	"	"	
Copper	10.4		8.81	"	"	"	"	"	
Lead	17.6		0.881	"	"	"	"	"	
Nickel	11.2		0.881	"	"	"	"	"	
Selenium	0.304		0.229	"	"	"	"	"	
Silver	ND		0.0881	"	"	"	"	"	
Zinc	40.8		32.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.139	0.346	mg/kg dry	1	2679368	10/02/2024	10/07/2024	U
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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - DL Phillips 24-31

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
Batch B410630 - EPA 3550B										
Blank (B410630-BLK1)										
					Prepared: 09/06/2024 Analyzed: 09/06/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - DL Phillips 24-31

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 B410630 - EPA 3550B

LCS (B410630-BS1)

Prepared: 09/06/2024 Analyzed: 09/06/2024

Diesel (C10-C28)	821	50.0	mg/kg	1000		82.1	70-130			
Residual Range Organics (C28-C40)	957	200	"	1000		95.7	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - DL Phillips 24-31

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 B4I0630 - EPA 3550B

Matrix Spike (B4I0630-MS1)	Source: E409045-01			Prepared: 09/06/2024 Analyzed: 09/06/2024						
Diesel (C10-C28)	849	50.0	mg/kg	1000	ND	84.9	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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Entrada Consulting Group
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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

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
Batch B410630 - EPA 3550B										
Matrix Spike Dup (B410630-MSD1)					Source: E409045-01					Prepared: 09/06/2024 Analyzed: 09/06/2024
Diesel (C10-C28)	866	50.0	mg/kg	1000	ND	86.6	70-130	2.03	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	2.73	35	
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

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 B410633 - EPA 5030 (soil)

Blank (B410633-BLK1)

Prepared: 09/06/2024 Analyzed: 09/08/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.8	70-130			

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330 Grand Ave. Unit C
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Chelsea Veryser
Project Number: [none]
Project: Chevron - DL Phillips 24-31

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 B410633 - EPA 5030 (soil)

LCS (B410633-BS1)

Prepared: 09/06/2024 Analyzed: 09/08/2024

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.0996	0.00380	"	0.100		99.6	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.223	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.0	70-130			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

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 B410633 - EPA 5030 (soil)

Matrix Spike (B410633-MS1)	Source: E409026-01			Prepared: 09/06/2024 Analyzed: 09/08/2024						
1,2,4-Trimethylbenzene	0.0963	0.00200	mg/kg	0.100	ND	96.3	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.102	0.00200	"	0.100	0.00474	96.8	70-130			
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Naphthalene	0.0922	0.00380	"	0.100	ND	92.2	70-130			
Toluene	0.0972	0.00200	"	0.100	0.00210	95.1	70-130			
o-Xylene	0.0996	0.00200	"	0.100	ND	99.6	70-130			
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.11</i>		<i>"</i>	<i>0.125</i>		<i>84.9</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>95.4</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.11</i>		<i>"</i>	<i>0.125</i>		<i>90.8</i>	<i>70-130</i>			

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

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 B410633 - EPA 5030 (soil)

Matrix Spike Dup (B410633-MSD1)	Source: E409026-01			Prepared: 09/06/2024 Analyzed: 09/08/2024						
1,2,4-Trimethylbenzene	0.0913	0.00200	mg/kg	0.100	ND	91.3	70-130	5.33	20	
1,3,5-Trimethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	4.84	20	
Benzene	0.102	0.00200	"	0.100	0.00474	97.1	70-130	0.236	20	
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	3.25	20	
Naphthalene	0.0920	0.00380	"	0.100	ND	92.0	70-130	0.174	20	
Toluene	0.0963	0.00200	"	0.100	0.00210	94.2	70-130	0.930	20	
o-Xylene	0.0972	0.00200	"	0.100	ND	97.2	70-130	2.48	20	
m,p-Xylene	0.206	0.00400	"	0.200	ND	103	70-130	4.14	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.1	70-130			

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

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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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 B4I0524 - EPA 3050B

Blank (B4I0524-BLK1)

Prepared: 09/05/2024 Analyzed: 09/09/2024

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 (B4I0524-BS1)

Prepared: 09/05/2024 Analyzed: 09/09/2024

Arsenic	5.37	0.290	mg/kg	5.00		107	80-120			
Barium	548	10.0	"	500		110	80-120			
Cadmium	5.61	0.100	"	5.00		112	80-120			
Copper	53.4	10.0	"	50.0		107	80-120			
Lead	5.51	1.00	"	5.00		110	80-120			
Nickel	5.36	1.00	"	5.00		107	80-120			
Selenium	5.28	0.260	"	5.00		106	80-120			
Silver	5.31	0.100	"	5.00		106	80-120			
Zinc	51.6	37.0	"	50.0		103	80-120			

Matrix Spike (B4I0524-MS1)

Source: E409098-01

Prepared: 09/05/2024 Analyzed: 09/09/2024

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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

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 B4I0524 - EPA 3050B

Matrix Spike (B4I0524-MS1)	Source: E409098-01			Prepared: 09/05/2024 Analyzed: 09/09/2024						
Arsenic	8.24	0.280	mg/kg	4.83	2.97	109	75-125			
Barium	590	9.66	"	483	201	80.7	75-125			
Cadmium	5.34	0.0966	"	4.83	0.114	108	75-125			
Copper	56.0	9.66	"	48.3	4.19	107	75-125			
Lead	10.0	0.966	"	4.83	5.03	103	75-125			
Nickel	11.0	0.966	"	4.83	5.47	114	75-125			
Selenium	5.10	0.251	"	4.83	0.0666	104	75-125			
Silver	5.10	0.0966	"	4.83	ND	106	75-125			
Zinc	72.6	35.7	"	48.3	20.6	108	75-125			

Matrix Spike Dup (B4I0524-MSD1)	Source: E409098-01			Prepared: 09/05/2024 Analyzed: 09/09/2024						
Arsenic	7.74	0.268	mg/kg	4.61	2.97	103	75-125	6.30	20	
Barium	575	9.23	"	461	201	81.1	75-125	2.66	20	
Cadmium	4.94	0.0923	"	4.61	0.114	105	75-125	7.71	20	
Copper	54.4	9.23	"	46.1	4.19	109	75-125	2.90	20	
Lead	9.79	0.923	"	4.61	5.03	103	75-125	2.31	20	
Nickel	10.6	0.923	"	4.61	5.47	112	75-125	3.14	20	
Selenium	4.50	0.240	"	4.61	0.0666	96.0	75-125	12.6	20	
Silver	4.65	0.0923	"	4.61	ND	101	75-125	9.19	20	
Zinc	70.5	34.1	"	46.1	20.6	108	75-125	2.91	20	

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - DL Phillips 24-31

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 B410927 - EPA 3580

Blank (B410927-BLK1)

Prepared: 09/09/2024 Analyzed: 09/09/2024

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	97.8	60-130
Surrogate: Anthracene-d10	180		"	200	90.7	60-130
Surrogate: Pyrene-d10	190		"	200	92.7	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	98.5	60-130

LCS (B410927-BS1)

Prepared: 09/09/2024 Analyzed: 09/09/2024

1-Methylnaphthalene	0.175	0.002	mg/kg	0.200	87.4	70-130
2-Methylnaphthalene	0.174	0.002	"	0.200	87.1	70-130
Acenaphthene	0.185	0.020	"	0.200	92.6	70-130
Anthracene	0.164	0.020	"	0.200	82.2	70-130

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - DL Phillips 24-31

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 B410927 - EPA 3580

LCS (B410927-BS1)

Prepared: 09/09/2024 Analyzed: 09/09/2024

Benzo (a) anthracene	0.164	0.005	mg/kg	0.200		82.1	70-130			
Benzo (a) pyrene	0.158	0.020	"	0.200		79.2	70-130			
Benzo (b) fluoranthene	0.203	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.179	0.020	"	0.200		89.3	70-130			
Benzo (k) fluoranthene	0.167	0.020	"	0.200		83.4	70-130			
Chrysene	0.169	0.020	"	0.200		84.6	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200		97.9	70-130			
Fluoranthene	0.176	0.020	"	0.200		88.1	70-130			
Fluorene	0.167	0.020	"	0.200		83.7	70-130			
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200		91.6	70-130			
Naphthalene	0.182	0.002	"	0.200		91.0	70-130			
Phenanthrene	0.168	0.020	"	0.200		83.8	70-130			
Pyrene	0.169	0.020	"	0.200		84.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.0	60-130			
Surrogate: Anthracene-d10	180		"	200		90.2	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.0	60-130			

Matrix Spike (B410927-MS1)

Source: E409100-01

Prepared: 09/09/2024 Analyzed: 09/09/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	0.002	97.9	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200	0.002	97.9	70-130			
Acenaphthene	0.201	0.020	"	0.200	0.0005	100	70-130			
Anthracene	0.168	0.020	"	0.200	ND	83.9	70-130			
Benzo (a) anthracene	0.174	0.005	"	0.200	0.0006	86.9	70-130			
Benzo (a) pyrene	0.170	0.020	"	0.200	ND	84.8	70-130			
Benzo (b) fluoranthene	0.209	0.020	"	0.200	ND	104	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	ND	98.5	70-130			

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Verysen
Project Number: [none]
Project: Chevron - DL Phillips 24-31

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 B410927 - EPA 3580

Matrix Spike (B410927-MS1)	Source: E409100-01			Prepared: 09/09/2024 Analyzed: 09/09/2024						
Benzo (k) fluoranthene	0.166	0.020	mg/kg	0.200	ND	83.2	70-130			
Chrysene	0.196	0.020	"	0.200	ND	98.2	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	98.1	70-130			
Fluoranthene	0.194	0.020	"	0.200	ND	97.1	70-130			
Fluorene	0.186	0.020	"	0.200	0.001	92.1	70-130			
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	ND	96.4	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	99.8	70-130			
Phenanthrene	0.187	0.020	"	0.200	0.0006	93.3	70-130			
Pyrene	0.182	0.020	"	0.200	0.0009	90.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.2	60-130			
Surrogate: Pyrene-d10	190		"	200		94.5	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.7	60-130			

Matrix Spike Dup (B410927-MSD1)	Source: E409100-01			Prepared: 09/09/2024 Analyzed: 09/09/2024						
1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	0.002	93.6	70-130	4.45	20	
2-Methylnaphthalene	0.187	0.002	"	0.200	0.002	92.6	70-130	5.51	20	
Acenaphthene	0.198	0.020	"	0.200	0.0005	98.6	70-130	1.53	20	
Anthracene	0.158	0.020	"	0.200	ND	79.0	70-130	6.09	20	
Benzo (a) anthracene	0.175	0.005	"	0.200	0.0006	87.0	70-130	0.172	20	
Benzo (a) pyrene	0.180	0.020	"	0.200	ND	90.0	70-130	5.93	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	ND	110	70-130	5.19	20	
Benzo (g,h,i) perylene	0.173	0.020	"	0.200	ND	86.7	70-130	12.7	20	
Benzo (k) fluoranthene	0.168	0.020	"	0.200	ND	84.2	70-130	1.14	20	
Chrysene	0.179	0.020	"	0.200	ND	89.5	70-130	9.32	20	
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	ND	102	70-130	3.66	20	
Fluoranthene	0.213	0.020	"	0.200	ND	106	70-130	9.06	20	

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

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 B410927 - EPA 3580

Matrix Spike Dup (B410927-MSD1)	Source: E409100-01			Prepared: 09/09/2024 Analyzed: 09/09/2024						
Fluorene	0.185	0.020	mg/kg	0.200	0.001	91.7	70-130	0.447	20	
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	ND	94.3	70-130	2.21	20	
Naphthalene	0.192	0.002	"	0.200	ND	96.1	70-130	3.73	20	
Phenanthrene	0.188	0.020	"	0.200	0.0006	93.5	70-130	0.180	20	
Pyrene	0.193	0.020	"	0.200	0.0009	96.0	70-130	5.63	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		92.2	60-130			
Surrogate: Pyrene-d10	210		"	200		103	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 Veryser
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

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 B4I0610 - Saturated Paste Metals

Blank (B4I0610-BLK1)

Prepared: 09/06/2024 Analyzed: 09/09/2024

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 (B4I0610-DUP1)

Source: E409088-15

Prepared: 09/06/2024 Analyzed: 09/09/2024

SAR	ND	0.0100	SAR	8.44				200	
Calcium PPM	14.0	10.0	mg/L	20.3			36.8	50	
Magnesium PPM	11.9	10.0	"	17.4			37.8	50	
Sodium PPM	165	10.0	"	215			26.0	50	

Batch B4I0616 - DTPA Sorbitol Preparation

Blank (B4I0616-BLK1)

Prepared: 09/06/2024 Analyzed: 09/09/2024

Boron	ND	0.100	mg/L						
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Duplicate (B4I0616-DUP1)

Source: E409100-01

Prepared: 09/06/2024 Analyzed: 09/09/2024

Boron	0.466	0.100	mg/L	0.417			11.0	50	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

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 B4I0621 - Saturated Paste pH/EC

Blank (B4I0621-BLK1)

Prepared: 09/06/2024 Analyzed: 09/07/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4I0621-DUP1)

Source: E409088-15

Prepared: 09/06/2024 Analyzed: 09/07/2024

Specific Conductance (EC)	0.903	0.00500	mmhos/cm	1.21			29.3	25
pH	8.61		pH Units	8.56			0.582	25

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Entrada Consulting Group
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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - DL Phillips 24-31

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 2679368 - SW846 3060A										
BLANK (1205869338-BLK)					Prepared: 10/02/2024 Analyzed: 10/07/2024					
Hexavalent Chromium	ND	0.343	mg/kg				-			U
LCS (1205869339-BKS)					Prepared: 10/02/2024 Analyzed: 10/07/2024					
Hexavalent Chromium	3.20	0.318	mg/kg	3.18		101	80-120			
DUP (1205869340 D)					Source: 684423001 Prepared: 10/02/2024 Analyzed: 10/07/2024					
Hexavalent Chromium	ND	0.346	mg/kg dry		<0.138		0-50	N/A	50	U
MS (1205869341 S)					Source: 684423001 Prepared: 10/02/2024 Analyzed: 10/07/2024					
Hexavalent Chromium	1.94	0.229	mg/kg dry	2.29	<0.0915	85	75-125			
DUP (1205869342 D)					Source: 684423002 Prepared: 10/02/2024 Analyzed: 10/07/2024					
Hexavalent Chromium	ND	0.402	mg/kg dry		<0.161		0-50	N/A	50	U
MS (1205869343 S)					Source: 684423002 Prepared: 10/02/2024 Analyzed: 10/07/2024					
Hexavalent Chromium	3.23	0.380	mg/kg dry	3.80	<0.152	83.7	75-125			
ILCS (1205869344-ILCS)					Prepared: 10/02/2024 Analyzed: 10/07/2024					
Hexavalent Chromium	5.59	0.269	mg/kg	5.58		100	80-120			

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - DL Phillips 24-31

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection 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.

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