

September 04, 2024

**Entrada Consulting Group**

**Chelsea Veryser**

**330 Grand Ave. Unit C**

**Grand Junction CO 81501**

**Project Name - Chevron - Diggin State D16-23**

**Project Number - [none]**

Attached are your analytical results for Chevron - Diggin State D16-23 received by Origins Laboratory, Inc. July 30, 2024. This project is associated with Origins project number Y407828-01.

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



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Diggin State D16-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y407828-01	Soil	July 29, 2024 12:00	07/30/2024 17:25

Origins Laboratory



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Jen Pellegrini, Project Manager

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

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggin State D16-23

**ORIGINS**  
 LABORATORY INC

ORIGINS WORK ORDER #

**4407828**

Page 1 of 1

Client: Entrada

Project Manager: Chelsea Veryser

Key:

Address: \_\_\_\_\_

Project Name: Diggin State D16-23

W=Water

Telephone Number: 970-314-8793

Collected By: Jim Leiker

GW=Groundwater

Email Address: Entrada@entrada.com

Invoice Billing Info: Bill to Chevron (Dish Smith)

WW=Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis		Comments
1	W10106	7/9/24	12:00	2	5	UNP	X	Table 415	
2	W10106		12:05						H2O
3	W10106		12:10						H2O
4	W10106		12:15						H2O
5	W10106		12:20						H2O
6									
7									
8									
9									
10									

Retiniquished By: \_\_\_\_\_ Date: 7/31/24 Time: 07:00  
 Received By: \_\_\_\_\_ Date: 7/30/24 Time: 12:05  
 Turnaround Time:  SAME DAY  24 Hr  48 Hr  72 Hr

Origins Laboratory

*Jefe Pellegrini*

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Diggins State D16-23

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4407828

Client: Entrada

Client Project ID: Diggins State D16-23

Checklist Completed by: WJ/PJ

Shipped Via: TD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/31/14

Airbill #: N/A

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

Water

Other: \_\_\_\_\_

Cooler Number/Temperature: 1, 2 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>			
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

8/1/14  
Date/Time Reviewed

Origins Laboratory

*Jefe Pellegrini*

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

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**WH01@6**

**7/29/2024 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y407828-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.158	0.0985	mg/L	1	B4H0116	ACC	08/01/2024	08/02/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3134	ADM	07/31/2024	08/01/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	Ua

Surrogate: o-Terphenyl	74.5 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3128	ZZZ	07/31/2024	08/01/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	Ua
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	Ua
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory



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**WH01@6**

**7/29/2024 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y407828-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.68	0.499	meq/L	10	[CALC]	KRM	08/01/2024	08/02/2024	
Magnesium	ND	0.823	"	"	"	KRM	"	"	
Sodium	0.765	0.435	"	"	"	KRM	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0132	Windo	08/01/2024	08/02/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	Ua
Anthracene	ND	0.020	"	"	"	Windo	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	Ua
Chrysene	ND	0.020	"	"	"	Windo	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	Ua
Fluorene	ND	0.020	"	"	"	Windo	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	Ua
Naphthalene	ND	0.002	"	"	"	Windo	"	"	Ua
Pyrene	ND	0.020	"	"	"	Windo	"	"	Ua

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**WH01@6**

**7/29/2024 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y407828-01 (Soil)**

**PAH by EPA 8270E**

Surrogate: Fluorene-d10	97.4 %	60-130			B4H01 32		08/01/2024	08/02/2024	
Surrogate: Anthracene-d10	97.7 %	60-130			"		"	"	
Surrogate: Pyrene-d10	104 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	8.22		pH Units	1	B4H0121	EAL	08/01/2024	08/02/2024	
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**SAR by 20B Saturated Paste**

SAR	0.741	0.0100	SAR	1	B4H0109	KRM	08/01/2024	08/02/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.455	0.00500	mmhos/cm	1	B4H0121	EAL	08/01/2024	08/02/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.54	0.246	mg/kg	10	B4G3126	ACN	07/31/2024	08/02/2024	
Barium	35.7	8.47	"	"	"	ACN	"	"	
Cadmium	ND	0.0847	"	"	"	ACN	"	"	Ua
Copper	ND	8.47	"	"	"	ACN	"	"	Ua
Lead	65.0	0.847	"	"	"	ACN	"	"	
Nickel	3.35	0.847	"	"	"	ACN	"	"	

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WH01@6

7/29/2024 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory**  
 Y407828-01 (Soil)

**Table 915 metals by EPA 6020B**

Selenium	ND	0.220	mg/kg	10	B4G3126	ACN	07/31/2024	08/02/2024	Ua
Silver	ND	0.0847	"	"	"	ACN	"	"	Ua
Zinc	ND	31.3	"	"	"	ACN	"	"	Ua

**Total Metals 7196A**

Hexavalent Chromium	ND	0.290	mg/kg dry	1	2663565	HH2	08/28/2024	08/30/2024	U
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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**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
<b>Batch B4G3128 - EPA 5030 (soil)</b>										
<b>Blank (B4G3128-BLK1)</b>										
					Prepared: 07/31/2024 Analyzed: 08/01/2024					
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	0.13		"	0.125	100		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	112		70-130			

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Project: Chevron - Diggins State D16-23

**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 B4G3128 - EPA 5030 (soil)**

**LCS (B4G3128-BS1)**

Prepared: 07/31/2024 Analyzed: 08/01/2024

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.0981	0.00200	"	0.100		98.1	70-130			
Benzene	0.0943	0.00200	"	0.100		94.3	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.115	0.00380	"	0.100		115	70-130			
Toluene	0.0984	0.00200	"	0.100		98.4	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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 330 Grand Ave. Unit C  
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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**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 B4G3128 - EPA 5030 (soil)

Matrix Spike (B4G3128-MS1)	Source: Y407789-01			Prepared: 07/31/2024 Analyzed: 08/01/2024						
1,2,4-Trimethylbenzene	0.0883	0.00200	mg/kg	0.100	ND	88.3	70-130			
1,3,5-Trimethylbenzene	0.0872	0.00200	"	0.100	ND	87.2	70-130			
Benzene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
Ethylbenzene	0.0993	0.00200	"	0.100	ND	99.3	70-130			
Naphthalene	0.0886	0.00380	"	0.100	ND	88.6	70-130			
Toluene	0.0892	0.00200	"	0.100	ND	89.2	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**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 B4G3128 - EPA 5030 (soil)

Matrix Spike Dup (B4G3128-MSD1)	Source: Y407789-01			Prepared: 07/31/2024 Analyzed: 08/01/2024						
1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100	ND	91.6	70-130	3.76	20	
1,3,5-Trimethylbenzene	0.0902	0.00200	"	0.100	ND	90.2	70-130	3.29	20	
Benzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	8.15	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	7.35	20	
Naphthalene	0.0874	0.00380	"	0.100	ND	87.4	70-130	1.36	20	
Toluene	0.0976	0.00200	"	0.100	ND	97.6	70-130	8.99	20	
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130	6.26	20	
m,p-Xylene	0.213	0.00400	"	0.200	ND	106	70-130	6.46	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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 330 Grand Ave. Unit C  
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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggin State D16-23

**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
<b>Batch B4G3134 - EPA 3550B</b>										
<b>Blank (B4G3134-BLK1)</b>										
					Prepared: 07/31/2024 Analyzed: 08/01/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		82.9	50-150			

Origins Laboratory



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Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Diggin State D16-23

**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 B4G3134 - EPA 3550B**

**LCS (B4G3134-BS1)**

Prepared: 07/31/2024 Analyzed: 08/01/2024

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	70-130			
Residual Range Organics (C28-C40)	1240	200	"	1000		124	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Chelsea Veryser

Project Number: [none]

Project: Chevron - Diggin State D16-23

**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 B4G3134 - EPA 3550B**

<b>Matrix Spike (B4G3134-MS1)</b>	<b>Source: Y407824-01</b>			<b>Prepared: 07/31/2024 Analyzed: 08/01/2024</b>						
Diesel (C10-C28)	1190	50.0	mg/kg	1000	166	102	70-130			
Residual Range Organics (C28-C40)	1270	200	"	1000	60.6	121	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Project Number: [none]

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**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 B4G3134 - EPA 3550B**

<b>Matrix Spike Dup (B4G3134-MSD1)</b>	<b>Source: Y407824-01</b>		<b>Prepared: 07/31/2024 Analyzed: 08/01/2024</b>							
Diesel (C10-C28)	1120	50.0	mg/kg	1000	166	95.2	70-130	6.06	35	
Residual Range Organics (C28-C40)	1260	200	"	1000	60.6	120	70-130	0.105	35	
Surrogate: o-Terphenyl	71		"	49.8		143	50-150			

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Jen Pellegrini, Project Manager

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

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**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 B4G3126 - EPA 3050B**

**Blank (B4G3126-BLK1)**

Prepared: 07/31/2024 Analyzed: 08/02/2024

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua

**LCS (B4G3126-BS1)**

Prepared: 07/31/2024 Analyzed: 08/02/2024

Arsenic	5.11	0.290	mg/kg	5.00		102	80-120			
Barium	507	10.0	"	500		101	80-120			

**Matrix Spike (B4G3126-MS1)**

Source: Y407828-01

Prepared: 07/31/2024 Analyzed: 08/02/2024

Arsenic	6.29	0.274	mg/kg	4.73	1.54	100	75-125			
Barium	541	9.46	"	473	35.7	107	75-125			

**Matrix Spike Dup (B4G3126-MSD1)**

Source: Y407828-01

Prepared: 07/31/2024 Analyzed: 08/02/2024

Arsenic	6.33	0.276	mg/kg	4.76	1.54	101	75-125	0.727	20	
Barium	532	9.51	"	476	35.7	104	75-125	1.79	20	

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 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**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 B4H0132 - EPA 3580**

**Blank (B4H0132-BLK1)**

Prepared: 08/01/2024 Analyzed: 08/02/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		99.2	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130			

**LCS (B4H0132-BS1)**

Prepared: 08/01/2024 Analyzed: 08/02/2024

1-Methylnaphthalene	0.171	0.002	mg/kg	0.200		85.4	70-130			
2-Methylnaphthalene	0.170	0.002	"	0.200		84.9	70-130			
Acenaphthene	0.177	0.020	"	0.200		88.5	70-130			
Anthracene	0.168	0.020	"	0.200		83.9	70-130			

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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**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 B4H0132 - EPA 3580**

**LCS (B4H0132-BS1)**

Prepared: 08/01/2024 Analyzed: 08/02/2024

Benzo (a) anthracene	0.174	0.005	mg/kg	0.200		87.0	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200		104	70-130			
Benzo (b) fluoranthene	0.193	0.020	"	0.200		96.4	70-130			
Benzo (g,h,i) perylene	0.177	0.020	"	0.200		88.4	70-130			
Benzo (k) fluoranthene	0.203	0.020	"	0.200		101	70-130			
Chrysene	0.177	0.020	"	0.200		88.4	70-130			
Dibenz (a,h) anthracene	0.164	0.020	"	0.200		82.2	70-130			
Fluoranthene	0.177	0.020	"	0.200		88.7	70-130			
Fluorene	0.176	0.020	"	0.200		87.8	70-130			
Indeno (1,2,3-cd) pyrene	0.181	0.020	"	0.200		90.3	70-130			
Naphthalene	0.174	0.002	"	0.200		86.9	70-130			
Phenanthrene	0.170	0.020	"	0.200		85.1	70-130			
Pyrene	0.180	0.020	"	0.200		90.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	200		"	200		97.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.3	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

**Matrix Spike (B4H0132-MS1)**

**Source: Y407791-02**

Prepared: 08/01/2024 Analyzed: 08/02/2024

1-Methylnaphthalene	0.182	0.002	mg/kg	0.200	0.0004	91.0	70-130			
2-Methylnaphthalene	0.181	0.002	"	0.200	ND	90.3	70-130			
Acenaphthene	0.185	0.020	"	0.200	ND	92.6	70-130			
Anthracene	0.175	0.020	"	0.200	0.0005	87.3	70-130			
Benzo (a) anthracene	0.181	0.005	"	0.200	0.0007	90.0	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200	0.003	96.6	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.0007	98.1	70-130			
Benzo (g,h,i) perylene	0.178	0.020	"	0.200	ND	88.8	70-130			

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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**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 B4H0132 - EPA 3580**

<b>Matrix Spike (B4H0132-MS1)</b>		<b>Source: Y407791-02</b>			<b>Prepared: 08/01/2024 Analyzed: 08/02/2024</b>					
Benzo (k) fluoranthene	0.202	0.020	mg/kg	0.200	ND	101	70-130			
Chrysene	0.182	0.020	"	0.200	0.001	90.4	70-130			
Dibenz (a,h) anthracene	0.175	0.020	"	0.200	ND	87.7	70-130			
Fluoranthene	0.181	0.020	"	0.200	0.0004	90.1	70-130			
Fluorene	0.184	0.020	"	0.200	ND	91.9	70-130			
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200	0.001	88.3	70-130			
Naphthalene	0.188	0.002	"	0.200	ND	94.1	70-130			
Phenanthrene	0.178	0.020	"	0.200	ND	88.9	70-130			
Pyrene	0.187	0.020	"	0.200	ND	93.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.7	60-130			
Surrogate: Anthracene-d10	200		"	200		98.3	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.5	60-130			

<b>Matrix Spike Dup (B4H0132-MSD1)</b>		<b>Source: Y407791-02</b>			<b>Prepared: 08/01/2024 Analyzed: 08/02/2024</b>					
1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0004	92.7	70-130	1.81	20	
2-Methylnaphthalene	0.186	0.002	"	0.200	ND	93.1	70-130	3.08	20	
Acenaphthene	0.191	0.020	"	0.200	ND	95.7	70-130	3.34	20	
Anthracene	0.175	0.020	"	0.200	0.0005	87.3	70-130	0.0271	20	
Benzo (a) anthracene	0.182	0.005	"	0.200	0.0007	90.8	70-130	0.890	20	
Benzo (a) pyrene	0.199	0.020	"	0.200	0.003	97.9	70-130	1.28	20	
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.0007	97.5	70-130	0.609	20	
Benzo (g,h,i) perylene	0.180	0.020	"	0.200	ND	90.2	70-130	1.58	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	ND	101	70-130	0.184	20	
Chrysene	0.198	0.020	"	0.200	0.001	98.6	70-130	8.54	20	
Dibenz (a,h) anthracene	0.178	0.020	"	0.200	ND	89.1	70-130	1.57	20	
Fluoranthene	0.187	0.020	"	0.200	0.0004	93.4	70-130	3.57	20	

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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**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 B4H0132 - EPA 3580**

<b>Matrix Spike Dup (B4H0132-MSD1)</b>	<b>Source: Y407791-02</b>			<b>Prepared: 08/01/2024 Analyzed: 08/02/2024</b>						
Fluorene	0.188	0.020	mg/kg	0.200	ND	93.9	70-130	2.14	20	
Indeno (1,2,3-cd) pyrene	0.169	0.020	"	0.200	0.001	83.9	70-130	5.13	20	
Naphthalene	0.189	0.002	"	0.200	ND	94.5	70-130	0.450	20	
Phenanthrene	0.183	0.020	"	0.200	ND	91.6	70-130	3.04	20	
Pyrene	0.195	0.020	"	0.200	ND	97.5	70-130	4.13	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130			
Surrogate: Anthracene-d10	190		"	200		96.9	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

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Jen Pellegrini, Project Manager

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

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**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 B4H0109 - Saturated Paste Metals**

**Blank (B4H0109-BLK1)**

Prepared: 08/01/2024 Analyzed: 08/02/2024

SAR	ND	0.0100	SAR							Ua
Calcium PPM	ND	10.0	mg/L							Ua
Magnesium PPM	ND	10.0	"							Ua
Sodium PPM	ND	10.0	"							Ua

**Duplicate (B4H0109-DUP1)**

**Source: Y407793-01**

Prepared: 08/01/2024 Analyzed: 08/02/2024

Calcium PPM	20.6	10.0	mg/L		20.6			0.0970	50	
SAR	ND	0.0100	SAR		12.6				200	Ua
Magnesium PPM	40.5	10.0	mg/L		37.7			7.09	50	
Sodium PPM	462	10.0	"		416			10.6	50	

**Batch B4H0116 - DTPA Sorbitol Preparation**

**Blank (B4H0116-BLK1)**

Prepared: 08/01/2024 Analyzed: 08/02/2024

Boron	ND	0.100	mg/L							Ua
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**Duplicate (B4H0116-DUP1)**

**Source: Y407827-01**

Prepared: 08/01/2024 Analyzed: 08/02/2024

Boron	0.154	0.0994	mg/L		0.299			64.1	50	QR-DUP
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 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**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 B4H0121 - Saturated Paste pH/EC**

**Blank (B4H0121-BLK1)**

Prepared: 08/01/2024 Analyzed: 08/02/2024

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

**Duplicate (B4H0121-DUP1)**

**Source: Y407793-01**

Prepared: 08/01/2024 Analyzed: 08/02/2024

pH	8.74		pH Units		8.76			0.229	25	
Specific Conductance (EC)	2.20	0.00500	mmhos/cm		2.06			6.81	25	

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Jen Pellegrini, Project Manager

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

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Diggins State D16-23

**Total Metals 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2663565 - SW846 3060A</b>										
<b>BLANK (1205836638-BLK)</b>					Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	ND	0.246	mg/kg				-			U
<b>LCS (1205836639-BKS)</b>					Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	3.03	0.302	mg/kg	3.02		100	80-120			
<b>DUP (1205836640 D)</b>					Source: 678373001 Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	ND	0.269	mg/kg dry		<0.108		0-50	N/A	50	U
<b>MS (1205836641 S)</b>					Source: 678373001 Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	1.25	0.269	mg/kg dry	2.69	<0.108	44.9	75-125			
<b>ILCS (1205836644-ILCS)</b>					Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	5.84	0.273	mg/kg	5.56		105	80-120			

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Diggin State D16-23

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**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini, Project Manager