



June 17, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Todd 20-02

Project Number - [none]

Attached are your analytical results for Chevron - Todd 20-02 received by Origins Laboratory, Inc. May 17, 2024. This project is associated with Origins project number Y405565-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Todd 20-02

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y405565-01	Soil	May 17, 2024 9:00	05/17/2024 16:04
FLR01@4	Y405565-02	Soil	May 17, 2024 9:05	05/17/2024 16:04

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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# ORIGINS LABORATORY, INC

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

Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Todd 20-02


1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9445

Sample ID/Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
W111-06	5/17/24	0800	2	X							
FLOR-09		0705	1					X	Table 905		
W119-08		1910	1								
W110-09		0915	1								
W111-09		0800	1								

Temp Received: 77.1  
Date Result Needed:

Client: Entrada  
Address:  
Telephone Number: 303-39-8703  
Email Address: ENTRA@Distrikto.com  
Project Manager: Chelsea Veryser  
Project Name: Todd 20-02  
Samples Collected by: Tom Lohr

**ORIGINS**  
LABORATORY, INC  
www.originslaboratory.com  
Bill to Client  
(Dusty Smith)  
1455665  
page 1 of 1

Origins Laboratory, Inc.  
  
Jen Pellegrini, Project Manager

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# ORIGINS

LABORATORY, INC

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

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

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

**Sample Receipt Checklist**

Origins Work Order: 1405365 Client: Entrada  
 Client Project ID: Todd 20-02  
 Checklist Completed by: SLP/SHD Shipped Via: 110  
 Date/time completed: 5/17/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 11221c / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: TOOS

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>SO</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<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"/>	<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"/>	<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<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"/>	<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
For volatiles in water – Is there headspace (> ¼ inch bubble) present? If <b>yes</b> , contact client and note in narrative.	<input checked="" type="checkbox"/>	<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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>Additional Comments (if any):</b>				

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

Reviewed by (Project Manager) COA

Date/Time Reviewed 5/17/24

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

WH01@6  
 5/17/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405565-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.173		0.0996	mg/L	1	B4E2108	05/21/2024	05/22/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E2002	05/20/2024	05/21/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	78.6 %		50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2027	05/20/2024	05/20/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	96.3 %		70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

WH01@6  
 5/17/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405565-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	101 %		70-130			B4E20 27	05/20/2024	05/20/2024	
Surrogate: 4-Bromofluorobenzene	99.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.88		0.499	meq/L	10	[CALC]	05/21/2024	05/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.522		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E2032	05/20/2024	05/21/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

WH01@6  
 5/17/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405565-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4E2032	05/20/2024	05/21/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104%		60-130			"	"	"	
Surrogate: Anthracene-d10	101%		60-130			"	"	"	
Surrogate: Pyrene-d10	87.1%		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.3%		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.32			pH Units	1	B4E2121	05/21/2024	05/22/2024	
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**SAR by 20B Saturated Paste**

SAR	0.451		0.0100	SAR	1	B4E2115	05/21/2024	05/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.334		0.00500	mmhos/cm	1	B4E2121	05/21/2024	05/22/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group  
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 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

WH01@6  
 5/17/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405565-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.12		0.247	mg/kg	10	B4E1749	05/20/2024	05/21/2024	
Barium	75.9		8.51	"	"	"	"	"	
Cadmium	0.0910		0.0851	"	"	"	"	"	
Copper	ND		8.51	"	"	"	"	"	Ua
Lead	7.05		0.851	"	"	"	"	"	
Nickel	8.38		0.851	"	"	"	"	"	
Selenium	ND		0.221	"	"	"	"	"	Ua
Silver	ND		0.0851	"	"	"	"	"	Ua
Zinc	32.2		31.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.115	0.286	mg/kg dry	1	2620905	06/04/2024	06/06/2024	U
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

FLR01@4

5/17/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405565-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.273		0.0995	mg/L	1	B4E2108	05/21/2024	05/22/2024	
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**DRO/ORO by EPA 8015D**

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

Surrogate: o-Terphenyl 83.2% 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2027	05/20/2024	05/20/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4 97.4% 70-130 " " "

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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

FLR01@4

5/17/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405565-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	102 %		70-130			B4E20 27	05/20/2024	05/20/2024	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.80		0.499	meq/L	10	[CALC]	05/21/2024	05/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E2032	05/20/2024	05/21/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

FLR01@4

5/17/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405565-02 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4E2032	05/20/2024	05/21/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	100 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.3 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.46			pH Units	1	B4E2121	05/21/2024	05/22/2024	
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**SAR by 20B Saturated Paste**

SAR	0.336		0.0100	SAR	1	B4E2115	05/21/2024	05/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.498		0.00500	mmhos/cm	1	B4E2121	05/21/2024	05/22/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

FLR01@4

5/17/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405565-02 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.11		0.246	mg/kg	10	B4E1749	05/20/2024	05/21/2024	
Barium	52.2		8.48	"	"	"	"	"	
Cadmium	0.122		0.0848	"	"	"	"	"	
Copper	ND		8.48	"	"	"	"	"	Ua
Lead	12.5		0.848	"	"	"	"	"	
Nickel	4.77		0.848	"	"	"	"	"	
Selenium	ND		0.220	"	"	"	"	"	Ua
Silver	ND		0.0848	"	"	"	"	"	Ua
Zinc	ND		31.4	"	"	"	"	"	Ua

**Total Metals 7196A**

Hexavalent Chromium	ND	0.125	0.312	mg/kg dry	1	2620905	06/04/2024	06/06/2024	U
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Origins Laboratory, Inc.



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

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2002 - EPA 3550B**

**Blank (B4E2002-BLK1)**

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

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

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2002 - EPA 3550B

LCS (B4E2002-BS1)

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

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

Origins Laboratory, Inc.



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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2002 - EPA 3550B

Matrix Spike (B4E2002-MS1)

Source: Y405574-01

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

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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2002 - EPA 3550B

Matrix Spike Dup (B4E2002-MSD1)

Source: Y405574-01

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

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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.


Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2027 - EPA 5030 (soil)

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

**Blank (B4E2027-BLK1)**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.081		"	0.125		64.6	70-130			S-GC

Origins Laboratory, Inc.  
  
 Jen Pellegrini, Project Manager

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 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2027 - EPA 5030 (soil)

LCS (B4E2027-BS1)

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

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

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 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2027 - EPA 5030 (soil)

Matrix Spike (B4E2027-MS1)

Source: Y405557-01

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

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

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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2027 - EPA 5030 (soil)

Matrix Spike Dup (B4E2027-MSD1)

Source: Y405557-01

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

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	1.93	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	1.94	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	0.392	20	
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	0.899	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	0.617	20	
Toluene	0.108	0.00200	"	0.100	ND	108	70-130	0.0185	20	
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130	1.60	20	
m,p-Xylene	0.221	0.00400	"	0.200	ND	110	70-130	1.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1749 - EPA 3050B**

**Blank (B4E1749-BLK1)**

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

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

**LCS (B4E1749-BS1)**

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

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

**Matrix Spike (B4E1749-MS1)**

Source: Y405563-01

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

Origins Laboratory, Inc.



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 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E1749 - EPA 3050B

**Matrix Spike (B4E1749-MS1)**

Source: Y405563-01

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

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

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

Source: Y405563-01

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

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

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 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2032 - EPA 3580**

**Blank (B4E2032-BLK1)**

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

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		94.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130			

**LCS (B4E2032-BS1)**

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

1-Methylnaphthalene	0.203	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.203	0.002	"	0.200		101	70-130			
Acenaphthene	0.202	0.020	"	0.200		101	70-130			
Anthracene	0.196	0.020	"	0.200		98.0	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2032 - EPA 3580**

**LCS (B4E2032-BS1)**

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

Benzo (a) anthracene	0.205	0.005	mg/kg	0.200		102	70-130			
Benzo (a) pyrene	0.212	0.020	"	0.200		106	70-130			
Benzo (b) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Benzo (g,h,i) perylene	0.191	0.020	"	0.200		95.7	70-130			
Benzo (k) fluoranthene	0.219	0.020	"	0.200		110	70-130			
Chrysene	0.212	0.020	"	0.200		106	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200		107	70-130			
Fluoranthene	0.199	0.020	"	0.200		99.5	70-130			
Fluorene	0.207	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		91.2	70-130			
Naphthalene	0.203	0.002	"	0.200		102	70-130			
Phenanthrene	0.201	0.020	"	0.200		101	70-130			
Pyrene	0.210	0.020	"	0.200		105	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**Matrix Spike (B4E2032-MS1)**

Source: Y405520-01

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

1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	ND	103	70-130			
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.207	0.020	"	0.200	ND	103	70-130			
Anthracene	0.203	0.020	"	0.200	ND	102	70-130			
Benzo (a) anthracene	0.211	0.005	"	0.200	0.0007	105	70-130			
Benzo (a) pyrene	0.221	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.219	0.020	"	0.200	0.0008	109	70-130			
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	ND	104	70-130			

Origins Laboratory, Inc.



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 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2032 - EPA 3580**

**Matrix Spike (B4E2032-MS1)**

**Source: Y405520-01**

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

Benzo (k) fluoranthene	0.215	0.020	mg/kg	0.200	0.0009	107	70-130			
Chrysene	0.213	0.020	"	0.200	0.0006	106	70-130			
Dibenz (a,h) anthracene	0.232	0.020	"	0.200	ND	116	70-130			
Fluoranthene	0.197	0.020	"	0.200	ND	98.7	70-130			
Fluorene	0.211	0.020	"	0.200	ND	105	70-130			
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	ND	96.0	70-130			
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130			
Pyrene	0.230	0.020	"	0.200	ND	115	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.9	60-130			
Surrogate: Pyrene-d10	220		"	200		111	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

**Matrix Spike Dup (B4E2032-MSD1)**

**Source: Y405520-01**

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

1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	ND	106	70-130	3.00	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	106	70-130	2.25	20	
Acenaphthene	0.214	0.020	"	0.200	ND	107	70-130	3.26	20	
Anthracene	0.213	0.020	"	0.200	ND	106	70-130	4.53	20	
Benzo (a) anthracene	0.218	0.005	"	0.200	0.0007	109	70-130	3.21	20	
Benzo (a) pyrene	0.218	0.020	"	0.200	ND	109	70-130	1.02	20	
Benzo (b) fluoranthene	0.225	0.020	"	0.200	0.0008	112	70-130	2.80	20	
Benzo (g,h,i) perylene	0.205	0.020	"	0.200	ND	103	70-130	1.59	20	
Benzo (k) fluoranthene	0.224	0.020	"	0.200	0.0009	111	70-130	3.98	20	
Chrysene	0.225	0.020	"	0.200	0.0006	112	70-130	5.67	20	
Dibenz (a,h) anthracene	0.231	0.020	"	0.200	ND	116	70-130	0.390	20	
Fluoranthene	0.207	0.020	"	0.200	ND	103	70-130	4.47	20	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group  
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 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2032 - EPA 3580

Matrix Spike Dup (B4E2032-MSD1)

Source: Y405520-01

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

Fluorene	0.217	0.020	mg/kg	0.200	ND	108	70-130	2.89	20	
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	ND	96.0	70-130	0.0276	20	
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130	2.74	20	
Phenanthrene	0.215	0.020	"	0.200	ND	108	70-130	3.46	20	
Pyrene	0.224	0.020	"	0.200	ND	112	70-130	2.65	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B4E2108 - DTPA Sorbitol Preparation

#### Blank (B4E2108-BLK1)

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

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

Source: Y405565-01

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

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

#### Blank (B4E2115-BLK1)

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

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

Source: Y405565-01

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

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



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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2121 - Saturated Paste pH/EC**

**Blank (B4E2121-BLK1)**

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

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

**Duplicate (B4E2121-DUP1)**

**Source: Y405565-01**

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

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

Origins Laboratory, Inc.



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 330 Grand Ave. Unit C  
 Grand Junction CO 81501

Chelsea Verysen  
 Project Number: [none]  
 Project: Chevron - Todd 20-02

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2620905 - SW846 3060A**

**BLANK (1205751398-BLK)**

Prepared: 06/04/2024 Analyzed: 06/06/2024

Hexavalent Chromium	ND	0.293	mg/kg				-			U
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**LCS (1205751399-BKS)**

Prepared: 06/04/2024 Analyzed: 06/06/2024

Hexavalent Chromium	2.77	0.281	mg/kg	2.81		98.6	80-120			
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**DUP (1205751400 D)**

**Source: 669686001**

Prepared: 06/04/2024 Analyzed: 06/06/2024

Hexavalent Chromium	0.147	0.334	mg/kg dry		0.184		0-50	22.5	50	J
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**MS (1205751401 S)**

**Source: 669686001**

Prepared: 06/04/2024 Analyzed: 06/06/2024

Hexavalent Chromium	2.74	0.334	mg/kg dry	3.34	0.184	76.5	75-125			
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**DUP (1205751402 D)**

**Source: 669718002**

Prepared: 06/04/2024 Analyzed: 06/06/2024

Hexavalent Chromium	ND	0.323	mg/kg dry		0.142		0-50	N/A	50	U
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**MS (1205751403 S)**

**Source: 669718002**

Prepared: 06/04/2024 Analyzed: 06/06/2024

Hexavalent Chromium	3.05	0.323	mg/kg dry	3.23	0.142	89.8	75-125			
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**ILCS (1205751404-ILCS)**

Prepared: 06/04/2024 Analyzed: 06/06/2024

Hexavalent Chromium	5.24	0.261	mg/kg	5.22		100	80-120			
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Jen Pellegrini, Project Manager

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

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Todd 20-02

## Notes and Definitions

- Ua Sample is Non-Detect.
  - U Result not detected above the detection limit
  - S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
  - J Greater than the detection limit but less than the reporting limit
  - ND Analyte NOT DETECTED at or above the reporting limit
  - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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