

June 18, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Hanscome C28-29D

Project Number - [none]

Attached are your analytical results for Chevron - Hanscome C28-29D received by Origins Laboratory, Inc. May 22, 2024. This project is associated with Origins project number Y405673-01.

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 - Hanscome C28-29D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y405673-01	Soil	May 22, 2024 13:00	05/22/2024 15:40
FLR01@4	Y405673-02	Soil	May 22, 2024 13:05	05/22/2024 15:40

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Hanscomb C28-29D

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Bill to Chevron V405673 page 1 of 1
(Dusty Smith)

Client: Entrada
Address: _____
Telephone Number: 303-39-8703
Email Address: Entrada Distribution cc: RB@entrada.com
Project Manager: Chelsea Veryser
Project Name: Hanscomb C28-29D
Project Number: _____
Samples Collected By: Jen Pellegrini

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
W401-06	5/22/24	1300	2	X				X				1
FLR01-04		1305	1									2
W401-N-04		1310	1									3
W401-L-04		1315	1									4
W401-S-04		1320	1									5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	5/22/24	1400	<i>[Signature]</i>	5/22/24	14:00	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
<i>[Signature]</i>	5/22/24	15:40	<i>[Signature]</i>	5/22/24	15:40	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Temp Received: 2.9 Date Results Needed

Origins Laboratory, Inc.

[Signature]

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y405673 Client: Entrada
Client Project ID: Hanscome C28-29D

Checklist Completed by: SA 1 Shipped Via: HU
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 5/22/24 Airbill #: N/A

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

Cooler Number/Temperature: 1 12.9 °C / °C / °C (Describe) _____ °C

Thermometer ID: T005

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

6/23/24
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

WH01@6
5/22/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405673-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.607	0.0992	mg/L	1	B4E2313	05/23/2024	05/24/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2303	05/23/2024	05/30/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	96.8 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2335	05/23/2024	05/25/2024	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	107 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

WH01@6
5/22/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405673-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	111 %	70-130	B4E23 35	05/23/2024	05/25/2024
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.15	0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024
Magnesium	1.07	0.823	"	"	"	"	"
Sodium	2.54	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2417	05/24/2024	05/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

WH01@6
5/22/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405673-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2417	05/24/2024	05/29/2024	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	108 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.37	pH Units	1	B4E2413	05/24/2024	05/29/2024
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SAR by 20B Saturated Paste

SAR	2.00	0.0100	SAR	1	B4E2403	05/24/2024	05/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.978	0.00500	mmhos/cm	1	B4E2413	05/24/2024	05/29/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Hanscome C28-29D

WH01@6

5/22/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405673-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.42	0.255	mg/kg	10	B4E2325	05/23/2024	05/24/2024
Barium	85.9	8.78	"	"	"	"	"
Cadmium	0.118	0.0878	"	"	"	"	"
Copper	ND	8.78	"	"	"	"	"
Lead	58.1	0.878	"	"	"	"	"
Nickel	8.29	0.878	"	"	"	"	"
Selenium	ND	0.228	"	"	"	"	"
Silver	ND	0.0878	"	"	"	"	"
Zinc	37.0	32.5	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.146	0.365	mg/kg dry	1	2625943	06/13/2024	06/14/2024	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 Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

FLR01@4
5/22/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405673-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.877	0.0996	mg/L	1	B4E2313	05/23/2024	05/24/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2303	05/23/2024	05/30/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	98.9 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2335	05/23/2024	05/25/2024	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	105 %	70-130	"	"	"
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Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

FLR01@4
5/22/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405673-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130	B4E23 35	05/23/2024	05/25/2024
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.37	0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.42	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2417	05/24/2024	05/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Hanscome C28-29D

FLR01@4

5/22/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405673-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4E2417	05/24/2024	05/29/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	104 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.05	pH Units	1	B4E2413	05/24/2024	05/29/2024
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SAR by 20B Saturated Paste

SAR	2.41	0.0100	SAR	1	B4E2403	05/24/2024	05/29/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.855	0.00500	mmhos/cm	1	B4E2413	05/24/2024	05/29/2024
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Table 915 metals by EPA 6020B

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Hanscome C28-29D

FLR01@4

5/22/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y405673-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.83	0.279	mg/kg	10	B4E2325	05/23/2024	05/24/2024
Barium	132	9.61	"	"	"	"	"
Cadmium	0.138	0.0961	"	"	"	"	"
Copper	ND	9.61	"	"	"	"	"
Lead	17.7	0.961	"	"	"	"	"
Nickel	11.0	0.961	"	"	"	"	"
Selenium	ND	0.250	"	"	"	"	"
Silver	ND	0.0961	"	"	"	"	"
Zinc	43.1	35.6	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.159	0.398	mg/kg dry	1	2625943	06/13/2024	06/14/2024	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 Veryser

Project Number: [none]

Project: Chevron - Hanscome C28-29D

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
Batch B4E2303 - EPA 3550B										
Blank (B4E2303-BLK1)					Prepared: 05/23/2024 Analyzed: 05/30/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Hanscome C28-29D

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 B4E2303 - EPA 3550B

LCS (B4E2303-BS1)

Prepared: 05/23/2024 Analyzed: 05/30/2024

Diesel (C10-C28)	957	50.0	mg/kg	1000		95.7	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	53		"	49.8		108	50-150			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

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 B4E2303 - EPA 3550B

Matrix Spike (B4E2303-MS1)		Source: Y405663-01			Prepared: 05/23/2024 Analyzed: 05/30/2024					
Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.7	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 - Hanscome C28-29D

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 B4E2303 - EPA 3550B

Matrix Spike Dup (B4E2303-MSD1)		Source: Y405663-01			Prepared: 05/23/2024 Analyzed: 05/30/2024					
Diesel (C10-C28)	871	50.0	mg/kg	1000	ND	87.1	70-130	8.10	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	8.35	35	
Surrogate: o-Terphenyl	46		"	49.8		92.4	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 - Hanscome C28-29D

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
Batch B4E2335 - EPA 5030 (soil)										
Blank (B4E2335-BLK1)					Prepared: 05/23/2024 Analyzed: 05/25/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

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
Batch B4E2335 - EPA 5030 (soil)										
LCS (B4E2335-BS1)					Prepared: 05/23/2024 Analyzed: 05/25/2024					
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0967	0.00200	"	0.100		96.7	70-130			
Naphthalene	0.0956	0.00380	"	0.100		95.6	70-130			
Toluene	0.0994	0.00200	"	0.100		99.4	70-130			
o-Xylene	0.0960	0.00200	"	0.100		96.0	70-130			
m,p-Xylene	0.197	0.00400	"	0.200		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

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 - Hanscome C28-29D

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
Batch B4E2335 - EPA 5030 (soil)										
Matrix Spike (B4E2335-MS1)		Source: Y405661-01			Prepared: 05/23/2024 Analyzed: 05/25/2024					
1,2,4-Trimethylbenzene	0.0964	0.00200	mg/kg	0.100	ND	96.4	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0974	0.00200	"	0.100	ND	97.4	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
Naphthalene	0.0734	0.00380	"	0.100	ND	73.4	70-130			
Toluene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
o-Xylene	0.0769	0.00200	"	0.100	ND	76.9	70-130			
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.0	70-130			

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 - Hanscome C28-29D

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
Batch B4E2335 - EPA 5030 (soil)										
Matrix Spike Dup (B4E2335-MSD1)		Source: Y405661-01			Prepared: 05/23/2024 Analyzed: 05/25/2024					
1,2,4-Trimethylbenzene	0.0934	0.00200	mg/kg	0.100	ND	93.4	70-130	3.08	20	
1,3,5-Trimethylbenzene	0.0892	0.00200	"	0.100	ND	89.2	70-130	12.3	20	
Benzene	0.0937	0.00200	"	0.100	ND	93.7	70-130	3.85	20	
Ethylbenzene	0.0875	0.00200	"	0.100	ND	87.5	70-130	5.45	20	
Naphthalene	0.0910	0.00380	"	0.100	ND	91.0	70-130	21.5	20	QR-02
Toluene	0.0866	0.00200	"	0.100	ND	86.6	70-130	4.60	20	
o-Xylene	0.0734	0.00200	"	0.100	ND	73.4	70-130	4.61	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.7	70-130	5.52	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.6	70-130			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

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 B4E2325 - EPA 3050B

Blank (B4E2325-BLK1)

Prepared: 05/23/2024 Analyzed: 05/24/2024

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 (B4E2325-BS1)

Prepared: 05/23/2024 Analyzed: 05/28/2024

Arsenic	5.20	0.290	mg/kg	5.00	104	80-120
Barium	558	10.0	"	500	112	80-120
Cadmium	5.82	0.100	"	5.00	116	80-120
Copper	57.8	10.0	"	50.0	116	80-120
Lead	5.75	1.00	"	5.00	115	80-120
Nickel	5.78	1.00	"	5.00	116	80-120
Selenium	10.9	0.260	"	9.50	115	80-120
Silver	5.81	0.100	"	5.00	116	80-120
Zinc	56.9	37.0	"	50.0	114	80-120

Matrix Spike (B4E2325-MS1)

Source: Y405667-01

Prepared: 05/23/2024 Analyzed: 05/24/2024

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

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
Batch B4E2325 - EPA 3050B										
Matrix Spike (B4E2325-MS1)			Source: Y405667-01		Prepared: 05/23/2024 Analyzed: 05/24/2024					
Arsenic	9.13	0.269	mg/kg	4.64	3.54	120	75-125			
Barium	674	9.28	"	464	120	119	75-125			
Cadmium	5.45	0.0928	"	4.64	0.215	113	75-125			
Copper	66.8	9.28	"	46.4	16.0	110	75-125			
Lead	26.3	0.928	"	4.64	28.7	NR	75-125			QM-07
Nickel	16.7	0.928	"	4.64	11.3	118	75-125			
Selenium	9.46	0.241	"	8.81	0.120	106	75-125			
Silver	5.18	0.0928	"	4.64	ND	112	75-125			
Zinc	114	34.3	"	46.4	64.8	106	75-125			
Matrix Spike Dup (B4E2325-MSD1)			Source: Y405667-01		Prepared: 05/23/2024 Analyzed: 05/24/2024					
Arsenic	8.39	0.278	mg/kg	4.80	3.54	101	75-125	8.40	20	
Barium	637	9.60	"	480	120	108	75-125	5.65	20	
Cadmium	5.35	0.0960	"	4.80	0.215	107	75-125	1.74	20	
Copper	62.3	9.60	"	48.0	16.0	96.5	75-125	6.97	20	
Lead	23.8	0.960	"	4.80	28.7	NR	75-125	10.1	20	QM-07
Nickel	15.2	0.960	"	4.80	11.3	81.3	75-125	9.83	20	
Selenium	9.04	0.250	"	9.12	0.120	97.8	75-125	4.57	20	
Silver	5.24	0.0960	"	4.80	ND	109	75-125	1.11	20	
Zinc	102	35.5	"	48.0	64.8	76.9	75-125	11.3	20	

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

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 B4E2417 - EPA 3580

Blank (B4E2417-BLK1)

Prepared: 05/24/2024 Analyzed: 05/29/2024

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	101	60-130
Surrogate: Anthracene-d10	210		"	200	103	60-130
Surrogate: Pyrene-d10	210		"	200	107	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	97.7	60-130

LCS (B4E2417-BS1)

Prepared: 05/24/2024 Analyzed: 05/29/2024

1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	112	70-130
2-Methylnaphthalene	0.227	0.002	"	0.200	114	70-130
Acenaphthene	0.206	0.020	"	0.200	103	70-130
Anthracene	0.213	0.020	"	0.200	107	70-130

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

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 B4E2417 - EPA 3580

LCS (B4E2417-BS1)

Prepared: 05/24/2024 Analyzed: 05/29/2024

Benzo (a) anthracene	0.209	0.005	mg/kg	0.200		105	70-130			
Benzo (a) pyrene	0.221	0.020	"	0.200		110	70-130			
Benzo (b) fluoranthene	0.211	0.020	"	0.200		106	70-130			
Benzo (g,h,i) perylene	0.211	0.020	"	0.200		105	70-130			
Benzo (k) fluoranthene	0.218	0.020	"	0.200		109	70-130			
Chrysene	0.205	0.020	"	0.200		103	70-130			
Dibenz (a,h) anthracene	0.221	0.020	"	0.200		111	70-130			
Fluoranthene	0.209	0.020	"	0.200		104	70-130			
Fluorene	0.207	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200		107	70-130			
Naphthalene	0.210	0.002	"	0.200		105	70-130			
Phenanthrene	0.202	0.020	"	0.200		101	70-130			
Pyrene	0.212	0.020	"	0.200		106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		96.6	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4E2417-MS1)

Source: Y405673-01

Prepared: 05/24/2024 Analyzed: 05/29/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	ND	96.8	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	99.9	70-130			
Acenaphthene	0.189	0.020	"	0.200	ND	94.6	70-130			
Anthracene	0.196	0.020	"	0.200	0.005	95.6	70-130			
Benzo (a) anthracene	0.206	0.005	"	0.200	0.002	102	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200	0.004	99.9	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.002	97.1	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	0.002	97.7	70-130			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

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 B4E2417 - EPA 3580

Matrix Spike (B4E2417-MS1)		Source: Y405673-01			Prepared: 05/24/2024 Analyzed: 05/29/2024					
Benzo (k) fluoranthene	0.190	0.020	mg/kg	0.200	0.002	94.2	70-130			
Chrysene	0.191	0.020	"	0.200	0.003	93.9	70-130			
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	0.002	100	70-130			
Fluoranthene	0.206	0.020	"	0.200	0.003	101	70-130			
Fluorene	0.195	0.020	"	0.200	0.0009	97.2	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	0.002	97.7	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.189	0.020	"	0.200	0.002	93.3	70-130			
Pyrene	0.215	0.020	"	0.200	0.002	106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.2	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B4E2417-MSD1)		Source: Y405673-01			Prepared: 05/24/2024 Analyzed: 05/29/2024					
1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	103	70-130	5.88	20	
2-Methylnaphthalene	0.212	0.002	"	0.200	ND	106	70-130	5.83	20	
Acenaphthene	0.195	0.020	"	0.200	ND	97.5	70-130	2.93	20	
Anthracene	0.210	0.020	"	0.200	0.005	103	70-130	6.95	20	
Benzo (a) anthracene	0.201	0.005	"	0.200	0.002	99.2	70-130	2.65	20	
Benzo (a) pyrene	0.218	0.020	"	0.200	0.004	107	70-130	6.85	20	
Benzo (b) fluoranthene	0.229	0.020	"	0.200	0.002	113	70-130	15.2	20	
Benzo (g,h,i) perylene	0.219	0.020	"	0.200	0.002	108	70-130	9.97	20	
Benzo (k) fluoranthene	0.191	0.020	"	0.200	0.002	94.4	70-130	0.221	20	
Chrysene	0.204	0.020	"	0.200	0.003	100	70-130	6.68	20	
Dibenz (a,h) anthracene	0.231	0.020	"	0.200	0.002	114	70-130	12.9	20	
Fluoranthene	0.210	0.020	"	0.200	0.003	103	70-130	2.15	20	

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

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 B4E2417 - EPA 3580

Matrix Spike Dup (B4E2417-MSD1)		Source: Y405673-01			Prepared: 05/24/2024 Analyzed: 05/29/2024					
Fluorene	0.198	0.020	mg/kg	0.200	0.0009	98.6	70-130	1.47	20	
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	0.002	114	70-130	15.0	20	
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130	2.89	20	
Phenanthrene	0.218	0.020	"	0.200	0.002	108	70-130	14.5	20	
Pyrene	0.206	0.020	"	0.200	0.002	102	70-130	4.20	20	
Surrogate: Fluorene-d10	190		ug/kg	200		94.7	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E2313 - DTPA Sorbitol Preparation										
Blank (B4E2313-BLK1)					Prepared: 05/23/2024 Analyzed: 05/24/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4E2313-DUP1)					Source: Y405663-01 Prepared: 05/23/2024 Analyzed: 05/24/2024					
Boron	0.253	0.100	mg/L		0.244			3.55	50	
Batch B4E2403 - Saturated Paste Metals										
Blank (B4E2403-BLK1)					Prepared: 05/24/2024 Analyzed: 05/29/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4E2403-DUP1)					Source: Y405663-01 Prepared: 05/24/2024 Analyzed: 05/29/2024					
Calcium PPM	25.1	10.0	mg/L		26.9			7.01	50	
SAR	ND	0.0100	SAR		2.01				200	
Magnesium PPM	4.79	10.0	mg/L		5.26			9.35	50	
Sodium PPM	40.4	10.0	"		43.6			7.57	50	

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E2413 - Saturated Paste pH/EC										
Blank (B4E2413-BLK1)					Prepared: 05/24/2024 Analyzed: 05/29/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E2413-DUP1)					Source: Y405663-01 Prepared: 05/24/2024 Analyzed: 05/29/2024					
pH	8.18		pH Units		8.20			0.244	25	
Specific Conductance (EC)	0.425	0.00500	mmhos/cm		0.444			4.46	25	

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hanscome C28-29D

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 2625943 - SW846 3060A										
BLANK (1205760154-BLK)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	ND	0.356	mg/kg				-			U
LCS (1205760155-BKS)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	3.80	0.387	mg/kg	3.87		98.2	80-120			
DUP (1205760156 D)					Source: 670268001 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	ND	0.398	mg/kg dry		<0.159		0-50	N/A	50	U
MS (1205760157 S)					Source: 670268001 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	2.46	0.398	mg/kg dry	3.98	<0.159	58.4	75-125			
DUP (1205760158 D)					Source: 670281002 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	ND	0.270	mg/kg dry		<0.108		0-50	N/A	50	U
MS (1205760159 S)					Source: 670281002 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	1.94	0.270	mg/kg dry	2.70	<0.108	69.4	75-125			
ILCS (1205760160-ILCS)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	5.28	0.251	mg/kg	5.03		105	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 - Hanscome C28-29D

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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