



May 06, 2024

Entrada Consulting Group

Chelsea Veryter

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Volkens 31-22

Project Number - [none]

Attached are your analytical results for Chevron - Volkens 31-22 received by Origins Laboratory, Inc. April 19, 2024. This project is associated with Origins project number Y404582-01.

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 Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y404582-01	Soil	April 19, 2024 13:00	04/19/2024 15:53
FLR01@4	Y404582-02	Soil	April 19, 2024 13:05	04/19/2024 15:53

Chain of Custody Modification Request

On 5/6/2024, Tim Krupa from Entrada contacted Jordan Bynon via email regarding Y404582 requesting that the analyses for samples WH01-N@4, WH01-W@4, and WH01-S@4 be removed. Requested modifications to the chain of custody were made by Jordan Bynon on 5/6/2024.

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Vertyer

Project Number: [none]

Project: Chevron - Volkens 31-22

ORIGINS
LABORATORY, INC

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

Client: Entrada
Address: _____
Telephone Number: 303-316-8703
Email Address: Entrada Distribution

Project Manager: Chelsea Vertyer
Project Name: Volkens 31-22
Project Number: _____
Samples Collected By: Jim Lohr
CC: ABUELO@chevron.com

Bill to Chevron
(Dusty Smith)
Y404582 page 1 of 1
www.originslaboratory.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysts	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
W401-Q6	04/19/24	1300	2	X				X				1
W401-NQ4	1305		1									2
W401-NQ4	1310		1									3
W401-NQ4	1315		1									4
W401-SQ4	1320		1									5
												6
												7
												8
												9
												10

Relinquished By: [Signature]
Date: 04/19/24
Time: 1412

Received By: SA
Date: 4/19/24
Time: 1533

Relinquished By: SA
Date: 4/19/24
Time: 1533

Received By: [Signature]
Date: 4/19/24
Time: 1533

Turnaround Time:
Same Day ☐ 24 Hr ☐
48 Hr ☐ Standard ☒

Temp Received- 14.9

Date Results Needed

Origins Laboratory, Inc.

J. Bynon

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Vertyer

Project Number: [none]

Project: Chevron - Volkens 31-22

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y404582

Client: Entrada

Client Project ID: Chevron - Volkens 31-

Checklist Completed by: SAW

Shipped Via: HD

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

Date/time completed: 4/19/12

Airbill #: N/A

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

Soil/Solid

Water

Other:

Cooler Number/Temperature: 1 14.9 °C

/

°C

(Describe)

Thermometer ID: TOCH

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

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

Reviewed by (Project Manager)

4/22/12
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 Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

WH01@6
4/19/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404582-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.762	0.101	mg/L	1	B4D2417	04/24/2024	04/25/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1510	25.0	mg/kg	1	B4D2332	04/23/2024	04/30/2024
Residual Range Organics (C28-C40)	497	100	"	"	"	"	"

Surrogate: o-Terphenyl	133 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	39.2	0.500	mg/kg	250	B4D2322	04/23/2024	05/01/2024
1,3,5-Trimethylbenzene	9.22	0.0500	"	25	"	"	04/24/2024
Benzene	0.0101	0.00200	"	1	"	"	04/25/2024
Ethylbenzene	4.46	0.500	"	250	"	"	05/01/2024
Toluene	0.00432	0.00200	"	1	"	"	04/25/2024
Xylenes, total	102	0.500	"	250	"	"	05/01/2024
Gasoline Range Hydrocarbons	1540	50.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	04/25/2024
Surrogate: Toluene-d8	98.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	232 %	70-130	"	"	" S-GC

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

WH01@6

4/19/2024 1:00:00PM

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

Y404582-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.58	0.499	meq/L	10	[CALC]	04/20/2024	04/22/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.77	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	1.99	0.020	mg/kg	10	B4D2324	04/23/2024	05/02/2024	
2-Methylnaphthalene	5.44	0.020	"	"	"	"	"	
Acenaphthene	ND	0.020	"	1	"	"	05/01/2024	Ua
Anthracene	0.042	0.020	"	"	"	"	"	
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	0.045	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	0.351	0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	1.19	0.020	"	10	"	"	05/02/2024	
Pyrene	0.025	0.020	"	1	"	"	05/01/2024	
Surrogate: Fluorene-d10	94.1 %	60-130			"	"	"	

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

WH01@6

4/19/2024 1:00:00PM

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

Y404582-01 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	100 %	60-130	B4D23 24	04/23/2024	05/01/2024
Surrogate: Pyrene-d10	99.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.14	pH Units	1	B4D2019	04/20/2024	04/22/2024
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SAR by 20B Saturated Paste

SAR	2.58	0.0100	SAR	1	B4D2007	04/20/2024	04/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.600	0.00500	mmhos/cm	1	B4D2019	04/20/2024	04/22/2024
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Table 915 metals by EPA 6020B

Arsenic	3.83	0.258	mg/kg	10	B4D1936	04/22/2024	04/23/2024
Barium	133	8.91	"	"	"	"	"
Cadmium	0.207	0.0891	"	"	"	"	"
Copper	16.1	8.91	"	"	"	"	"
Lead	12.7	0.891	"	"	"	"	"
Nickel	13.9	0.891	"	"	"	"	"
Selenium	ND	0.232	"	"	"	"	"

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

WH01@6

4/19/2024 1:00:00PM

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

Y404582-01 (Soil)

Table 915 metals by EPA 6020B

Silver	ND		0.0891	mg/kg	10	B4D1936	04/22/2024	04/23/2024	
Zinc	65.3		33.0	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.173	0.433	mg/kg dry	1	2602709	04/25/2024	04/29/2024	U
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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

FLR01@4
4/19/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404582-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.303	0.0993	mg/L	1	B4D2417	04/24/2024	04/25/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	222	25.0	mg/kg	1	B4D2332	04/23/2024	05/01/2024
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	Ua

Surrogate: o-Terphenyl	83.8 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4D2322	04/23/2024	04/23/2024	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	5.85	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	96.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

FLR01@4
4/19/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404582-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 105 % 70-130 B4D23 22 04/23/2024 04/23/2024

Metals by Saturated Paste by EPA 6010

Calcium	2.77	0.499	meq/L	10	[CALC]	04/20/2024	04/22/2024
Magnesium	1.17	0.823	"	"	"	"	"
Sodium	2.48	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4D2324	04/23/2024	05/01/2024	
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	0.028	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

FLR01@4

4/19/2024 1:05:00PM

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

Y404582-02 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4D2324	04/23/2024	05/01/2024	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	104 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.60	pH Units	1	B4D2019	04/20/2024	04/22/2024
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SAR by 20B Saturated Paste

SAR	1.76	0.0100	SAR	1	B4D2007	04/20/2024	04/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.778	0.00500	mmhos/cm	1	B4D2019	04/20/2024	04/22/2024
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Table 915 metals by EPA 6020B

Arsenic	1.93	0.264	mg/kg	10	B4D1936	04/22/2024	04/23/2024
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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

FLR01@4

4/19/2024 1:05:00PM

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

Y404582-02 (Soil)

Table 915 metals by EPA 6020B

Barium	84.3	9.11	mg/kg	10	B4D1936	04/22/2024	04/23/2024
Cadmium	ND	0.0911	"	"	"	"	"
Copper	ND	9.11	"	"	"	"	"
Lead	4.70	0.911	"	"	"	"	"
Nickel	4.72	0.911	"	"	"	"	"
Selenium	ND	0.237	"	"	"	"	"
Silver	ND	0.0911	"	"	"	"	"
Zinc	ND	33.7	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.166	0.414	mg/kg dry	1	2602709	04/25/2024	04/29/2024	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 Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

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 B4D2322 - EPA 5030 (soil)										
Blank (B4D2322-BLK1)					Prepared: 04/23/2024 Analyzed: 04/23/2024					
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		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

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 B4D2322 - EPA 5030 (soil)

LCS (B4D2322-BS1)

Prepared: 04/23/2024 Analyzed: 04/23/2024

1,2,4-Trimethylbenzene	0.0868	0.00200	mg/kg	0.100		86.8	70-130			
1,3,5-Trimethylbenzene	0.0864	0.00200	"	0.100		86.4	70-130			
Benzene	0.0826	0.00200	"	0.100		82.6	70-130			
Ethylbenzene	0.0839	0.00200	"	0.100		83.9	70-130			
Naphthalene	0.0858	0.00380	"	0.100		85.8	70-130			
Toluene	0.0803	0.00200	"	0.100		80.3	70-130			
o-Xylene	0.0853	0.00200	"	0.100		85.3	70-130			
m,p-Xylene	0.166	0.00400	"	0.200		83.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

Origins Laboratory, Inc.



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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

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 B4D2322 - EPA 5030 (soil)										
Matrix Spike (B4D2322-MS1)		Source: Y404582-02			Prepared: 04/23/2024 Analyzed: 04/24/2024					
1,2,4-Trimethylbenzene	0.0772	0.00200	mg/kg	0.100	ND	77.2	70-130			
1,3,5-Trimethylbenzene	0.0791	0.00200	"	0.100	ND	79.1	70-130			
Benzene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
Ethylbenzene	0.0919	0.00200	"	0.100	ND	91.9	70-130			
Naphthalene	0.110	0.00380	"	0.100	ND	110	70-130			
Toluene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
o-Xylene	0.0963	0.00200	"	0.100	ND	96.3	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

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 B4D2322 - EPA 5030 (soil)										
Matrix Spike Dup (B4D2322-MSD1)			Source: Y404582-02		Prepared: 04/23/2024 Analyzed: 04/24/2024					
1,2,4-Trimethylbenzene	0.0684	0.00200	mg/kg	0.100	ND	68.4	70-130	12.1	20	QM-07
1,3,5-Trimethylbenzene	0.0712	0.00200	"	0.100	ND	71.2	70-130	10.5	20	
Benzene	0.0881	0.00200	"	0.100	ND	88.1	70-130	5.44	20	
Ethylbenzene	0.0811	0.00200	"	0.100	ND	81.1	70-130	12.5	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	5.88	20	
Toluene	0.0850	0.00200	"	0.100	ND	85.0	70-130	8.34	20	
o-Xylene	0.0895	0.00200	"	0.100	ND	89.5	70-130	7.30	20	
m,p-Xylene	0.156	0.00400	"	0.200	ND	78.0	70-130	11.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

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 B4D2332 - EPA 3550B

Blank (B4D2332-BLK1)

Prepared: 04/23/2024 Analyzed: 04/27/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		92.3	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

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 B4D2332 - EPA 3550B

LCS (B4D2332-BS1)

Prepared: 04/23/2024 Analyzed: 04/27/2024

Diesel (C10-C28)	945	50.0	mg/kg	1000		94.5	70-130			
Residual Range Organics (C28-C40)	936	200	"	1000		93.6	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

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 B4D2332 - EPA 3550B

Matrix Spike (B4D2332-MS1)		Source: Y404576-01			Prepared: 04/23/2024 Analyzed: 04/27/2024					
Diesel (C10-C28)	971	50.0	mg/kg	1000	ND	97.1	70-130			
Residual Range Organics (C28-C40)	940	200	"	1000	ND	94.0	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.4	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

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 B4D2332 - EPA 3550B

Matrix Spike Dup (B4D2332-MSD1)		Source: Y404576-01			Prepared: 04/23/2024 Analyzed: 04/27/2024					
Diesel (C10-C28)	951	50.0	mg/kg	1000	ND	95.1	70-130	2.08	35	
Residual Range Organics (C28-C40)	946	200	"	1000	ND	94.6	70-130	0.695	35	
Surrogate: o-Terphenyl	68		"	49.8		136	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Vertyer

Project Number: [none]

Project: Chevron - Volkens 31-22

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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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 B4D1936 - EPA 3050B

Blank (B4D1936-BLK1)

Prepared: 04/22/2024 Analyzed: 04/23/2024

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 (B4D1936-BS1)

Prepared: 04/22/2024 Analyzed: 04/24/2024

Arsenic	4.78	0.290	mg/kg	5.00	95.5	80-120
Barium	509	10.0	"	500	102	80-120
Cadmium	4.99	0.100	"	5.00	99.9	80-120
Copper	51.2	10.0	"	50.0	102	80-120
Lead	5.17	1.00	"	5.00	103	80-120
Nickel	5.07	1.00	"	5.00	101	80-120
Selenium	8.90	0.260	"	9.50	93.7	80-120
Silver	4.90	0.100	"	5.00	98.1	80-120
Zinc	50.4	37.0	"	50.0	101	80-120

Matrix Spike (B4D1936-MS1)

Source: Y404578-01

Prepared: 04/22/2024 Analyzed: 04/24/2024

Origins Laboratory, Inc.



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

Chelsea Vertyer
Project Number: [none]
Project: Chevron - Volkens 31-22

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 B4D1936 - EPA 3050B

Matrix Spike (B4D1936-MS1)		Source: Y404578-01			Prepared: 04/22/2024 Analyzed: 04/24/2024					
Arsenic	8.08	0.284	mg/kg	4.90	4.42	74.8	75-125			QM-07
Barium	721	9.80	"	490	183	110	75-125			
Cadmium	5.35	0.0980	"	4.90	0.309	103	75-125			
Copper	59.4	9.80	"	49.0	26.0	68.1	75-125			QM-07
Lead	16.2	0.980	"	4.90	19.6	NR	75-125			QM-07
Nickel	16.0	0.980	"	4.90	16.8	NR	75-125			QM-07
Selenium	8.88	0.255	"	9.31	0.341	91.7	75-125			
Silver	4.97	0.0980	"	4.90	0.113	99.1	75-125			
Zinc	101	36.3	"	49.0	69.7	63.6	75-125			QM-07
Matrix Spike Dup (B4D1936-MSD1)		Source: Y404578-01			Prepared: 04/22/2024 Analyzed: 04/24/2024					
Arsenic	7.57	0.270	mg/kg	4.65	4.42	67.9	75-125	6.53	20	QM-07
Barium	682	9.30	"	465	183	107	75-125	5.43	20	
Cadmium	5.22	0.0930	"	4.65	0.309	106	75-125	2.43	20	
Copper	54.4	9.30	"	46.5	26.0	61.2	75-125	8.69	20	QM-07
Lead	16.6	0.930	"	4.65	19.6	NR	75-125	2.45	20	QM-07
Nickel	15.0	0.930	"	4.65	16.8	NR	75-125	6.17	20	QM-07
Selenium	8.47	0.242	"	8.83	0.341	92.0	75-125	4.74	20	
Silver	4.79	0.0930	"	4.65	0.113	101	75-125	3.64	20	
Zinc	94.5	34.4	"	46.5	69.7	53.3	75-125	6.53	20	QM-07

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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

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 B4D2324 - EPA 3580

Blank (B4D2324-BLK1)

Prepared: 04/23/2024 Analyzed: 04/30/2024

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	190		ug/kg	200		92.8	60-130
Surrogate: Anthracene-d10	210		"	200		105	60-130
Surrogate: Pyrene-d10	200		"	200		101	60-130
Surrogate: Benzo (a) pyrene-d12	230		"	200		116	60-130

LCS (B4D2324-BS1)

Prepared: 04/23/2024 Analyzed: 04/30/2024

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200		89.3	70-130
2-Methylnaphthalene	0.178	0.002	"	0.200		88.9	70-130
Acenaphthene	0.186	0.020	"	0.200		92.8	70-130
Anthracene	0.183	0.020	"	0.200		91.4	70-130

Origins Laboratory, Inc.



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

Chelsea Vertyer
Project Number: [none]
Project: Chevron - Volkens 31-22

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 B4D2324 - EPA 3580

LCS (B4D2324-BS1)

Prepared: 04/23/2024 Analyzed: 04/30/2024

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.5	70-130
Benzo (a) pyrene	0.213	0.020	"	0.200		106	70-130
Benzo (b) fluoranthene	0.198	0.020	"	0.200		98.9	70-130
Benzo (g,h,i) perylene	0.208	0.020	"	0.200		104	70-130
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.5	70-130
Chrysene	0.182	0.020	"	0.200		91.2	70-130
Dibenz (a,h) anthracene	0.237	0.020	"	0.200		119	70-130
Fluoranthene	0.157	0.020	"	0.200		78.6	70-130
Fluorene	0.176	0.020	"	0.200		87.9	70-130
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200		111	70-130
Naphthalene	0.182	0.002	"	0.200		91.0	70-130
Phenanthrene	0.194	0.020	"	0.200		97.0	70-130
Pyrene	0.162	0.020	"	0.200		80.8	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		98.7	60-130
Surrogate: Anthracene-d10	210		"	200		103	60-130
Surrogate: Pyrene-d10	170		"	200		86.2	60-130
Surrogate: Benzo (a) pyrene-d12	230		"	200		116	60-130

Matrix Spike (B4D2324-MS1)

Source: Y404571-01

Prepared: 04/23/2024 Analyzed: 04/30/2024

1-Methylnaphthalene	0.184	0.002	mg/kg	0.200	ND	91.8	70-130
2-Methylnaphthalene	0.186	0.002	"	0.200	ND	93.1	70-130
Acenaphthene	0.189	0.020	"	0.200	ND	94.6	70-130
Anthracene	0.203	0.020	"	0.200	ND	102	70-130
Benzo (a) anthracene	0.182	0.005	"	0.200	0.004	88.8	70-130
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.001	99.3	70-130
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	0.001	94.5	70-130

Origins Laboratory, Inc.



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

Chelsea Vertyer
Project Number: [none]
Project: Chevron - Volkens 31-22

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 B4D2324 - EPA 3580

Matrix Spike (B4D2324-MS1)		Source: Y404571-01			Prepared: 04/23/2024 Analyzed: 04/30/2024					
Benzo (k) fluoranthene	0.190	0.020	mg/kg	0.200	0.0008	94.7	70-130			
Chrysene	0.190	0.020	"	0.200	0.003	93.5	70-130			
Dibenz (a,h) anthracene	0.220	0.020	"	0.200	ND	110	70-130			
Fluoranthene	0.186	0.020	"	0.200	0.0006	92.8	70-130			
Fluorene	0.175	0.020	"	0.200	0.0006	87.3	70-130			
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	0.002	97.4	70-130			
Naphthalene	0.187	0.002	"	0.200	ND	93.5	70-130			
Phenanthrene	0.206	0.020	"	0.200	ND	103	70-130			
Pyrene	0.189	0.020	"	0.200	ND	94.3	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.3	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	190		"	200		96.5	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130			

Matrix Spike Dup (B4D2324-MSD1)		Source: Y404571-01			Prepared: 04/23/2024 Analyzed: 04/30/2024					
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	ND	96.1	70-130	4.68	20	
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.7	70-130	2.74	20	
Acenaphthene	0.199	0.020	"	0.200	ND	99.4	70-130	4.87	20	
Anthracene	0.215	0.020	"	0.200	ND	108	70-130	5.62	20	
Benzo (a) anthracene	0.202	0.005	"	0.200	0.004	98.7	70-130	10.3	20	
Benzo (a) pyrene	0.204	0.020	"	0.200	ND	102	70-130	1.72	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	0.001	99.8	70-130	0.518	20	
Benzo (g,h,i) perylene	0.205	0.020	"	0.200	0.001	102	70-130	7.73	20	
Benzo (k) fluoranthene	0.214	0.020	"	0.200	0.0008	107	70-130	12.0	20	
Chrysene	0.207	0.020	"	0.200	0.003	102	70-130	8.56	20	
Dibenz (a,h) anthracene	0.229	0.020	"	0.200	ND	115	70-130	4.21	20	
Fluoranthene	0.203	0.020	"	0.200	0.0006	101	70-130	8.61	20	

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

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 B4D2324 - EPA 3580

Matrix Spike Dup (B4D2324-MSD1)		Source: Y404571-01			Prepared: 04/23/2024 Analyzed: 04/30/2024					
Fluorene	0.184	0.020	mg/kg	0.200	0.0006	91.7	70-130	4.97	20	
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	0.002	106	70-130	8.23	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.4	70-130	5.20	20	
Phenanthrene	0.213	0.020	"	0.200	ND	106	70-130	3.38	20	
Pyrene	0.203	0.020	"	0.200	ND	102	70-130	7.37	20	
Surrogate: Fluorene-d10	190		ug/kg	200		93.4	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	200		"	200		99.1	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

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 B4D2007 - Saturated Paste Metals

Blank (B4D2007-BLK1)

Prepared: 04/20/2024 Analyzed: 04/22/2024

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

Duplicate (B4D2007-DUP1)

Source: Y404553-01

Prepared: 04/20/2024 Analyzed: 04/22/2024

Calcium PPM	24.8	10.0	mg/L	22.5	9.94	50
SAR	ND	0.0100	SAR	3.22		200
Magnesium PPM	3.99	10.0	mg/L	3.50	13.1	50
Sodium PPM	71.6	10.0	"	62.0	14.2	50

Batch B4D2417 - DTPA Sorbitol Preparation

Blank (B4D2417-BLK1)

Prepared: 04/24/2024 Analyzed: 04/25/2024

Boron	ND	0.100	mg/L
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Duplicate (B4D2417-DUP1)

Source: Y404578-15

Prepared: 04/24/2024 Analyzed: 05/01/2024

Boron	0.743	1.00	mg/L	0.809	8.52	50
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Origins Laboratory, Inc.



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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D2019 - Saturated Paste pH/EC										
Blank (B4D2019-BLK1)					Prepared: 04/20/2024 Analyzed: 04/22/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4D2019-DUP1)					Source: Y404553-01 Prepared: 04/20/2024 Analyzed: 04/22/2024					
Specific Conductance (EC)	0.917	0.00500	mmhos/cm		0.829			10.1	25	
pH	8.41		pH Units		8.42			0.119	25	

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Grand Junction CO 81501

Chelsea Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2602709 - SW846 3060A										
BLANK (1205714914-BLK)					Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	ND	0.346	mg/kg				-			U
LCS (1205714915-BKS)					Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	3.28	0.329	mg/kg	3.29		99.7	80-120			
DUP (1205714916 D)					Source: 664354006 Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	ND	0.308	mg/kg dry		<0.123		0-50	N/A	50	U
MS (1205714917 S)					Source: 664354006 Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	2.71	0.309	mg/kg dry	3.09	<0.124	86.4	75-125			
DUP (1205714918 D)					Source: 664358003 Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	ND	0.405	mg/kg dry		<0.162		0-50	N/A	50	U
MS (1205714919 S)					Source: 664358003 Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	3.69	0.401	mg/kg dry	4.01	<0.161	89.7	75-125			
ILCS (1205714920-ILCS)					Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	8.13	0.390	mg/kg	7.92		103	80-120			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

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.

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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