



Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

September 16, 2024

Project Name - Chevron - Lucci B01-23

Project Number - [none]

Attached are your analytical results for Chevron - Lucci B01-23 received by Origins Laboratory August 16, 2024. This project is associated with Origins project number Y408509-01.

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

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

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

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

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

Origins Laboratory
303.433.1322
projectmanager@originslab.com



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

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y408509-01	Soil	August 16, 2024 9:00	08/16/2024 16:25
WH01-E@4	Y408509-03	Soil	August 16, 2024 9:10	08/16/2024 16:25

Origins Laboratory



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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23



ORIGINS WORK ORDER #
4408509

Client: Entrada
 Project Manager: Chelsea Veryser
 Project Name: Lucci B01-23
 Key: W=Water
 GIV=Groundwater

Telephone Number: 303-394-8793
 Collected By: Iron Lake
 SW=Surface Water
 WW=Waste Water

Email Address: Entrada@entrada.com
 Invoice Billing Info: Bill to Client (Disty Sm)
 I=Liquid
 S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | WIP=Impres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis		Comments
1	W1101-5	8/16/24	0920	W	5					
2	W1101-5 (M)									Hold
3	W1101-5 (M)									Hold
4	W1101-5 (M)									Hold
5	W1101-5 (M)									Hold
6										
7										
8										
9										
10										

Relinquished By: [Signature] Date: 8/16/24 Time: 1430
 Received By: [Signature] Date: 8/16/24 Time: 1520
 Relinquished By: [Signature] Date: 08/16/24 Time: 1625
 Received By: [Signature] Date: 8/16/24 Time: 1025

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received: 2 Received On Ice? Yes No
 For Lab Sample Receiving Only: Standard 48 Hr 72 Hr SAME DAY 24 Hr Turnaround Time

Origins Laboratory
[Signature]

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4408509 Client: Entrada
 Checklist Completed by: JW/ETH Client Project ID: Lucci B01-23
 Date/time completed: 8/20/24 Shipped Via: TID
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: L12 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: 6005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>			
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>			
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>			
Are samples preserved that require preservation and was it checked ⁽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)	<input checked="" type="checkbox"/>			
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) AS

8/21/24
 Date/Time Reviewed

Origins Laboratory



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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

WH01@6
8/16/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408509-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.171		0.0993	mg/L	1	B4H2109	08/21/2024	08/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H2032	08/20/2024	08/21/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	84.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H2044	08/20/2024	08/22/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
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Origins Laboratory



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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

WH01@6
8/16/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408509-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	109 %		70-130			B4H20 44	08/20/2024	08/22/2024	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	9.20		0.499	meq/L	10	[CALC]	08/22/2024	08/23/2024	
Magnesium	4.38		0.823	"	"	"	"	"	
Sodium	11.8		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H2030	08/20/2024	08/22/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

WH01@6
8/16/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408509-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4H2030	08/20/2024	08/22/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	109 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.1 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.20			pH Units	1	B4H2217	08/22/2024	08/23/2024	
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SAR by 20B Saturated Paste

SAR	4.51		0.0100	SAR	1	B4H2207	08/22/2024	08/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.68		0.00500	mmhos/cm	1	B4H2217	08/22/2024	08/23/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory



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Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

WH01@6
8/16/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408509-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.18		0.270	mg/kg	10	B4H1939	08/19/2024	08/22/2024	
Barium	43.9		9.31	"	"	"	"	"	
Cadmium	ND		0.0931	"	"	"	"	"	
Copper	ND		9.31	"	"	"	"	"	
Lead	5.58		0.931	"	"	"	"	"	
Nickel	3.37		0.931	"	"	"	"	"	
Selenium	ND		0.242	"	"	"	"	"	
Silver	ND		0.0931	"	"	"	"	"	
Zinc	ND		34.4	"	"	"	"	"	

Total Metals 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L768443	08/16/2024	08/21/2024	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

WH01-E@4

8/16/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408509-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.903		0.0996	mg/L	1	B4H2109	08/21/2024	08/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	39.0		25.0	mg/kg	1	B4H2032	08/20/2024	08/21/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	74.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H2044	08/20/2024	08/22/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.480		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	108 %		70-130			"	"	"	

Origins Laboratory



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

WH01-E@4

8/16/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
Y408509-03 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	103 %		70-130			B4H20 44	08/20/2024	08/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	14.9		0.499	meq/L	10	[CALC]	08/22/2024	08/23/2024	
Magnesium	1.07		0.823	"	"	"	"	"	
Sodium	23.6		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.021		0.002	mg/kg	1	B4H2030	08/20/2024	08/22/2024	
2-Methylnaphthalene	0.029		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U

Origins Laboratory



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

WH01-E@4

8/16/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
Y408509-03 (Soil)**

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4H2030	08/20/2024	08/22/2024	U
Naphthalene	0.007		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.6 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.91			pH Units	1	B4H2217	08/22/2024	08/23/2024	
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SAR by 20B Saturated Paste

SAR	8.36		0.0100	SAR	1	B4H2207	08/22/2024	08/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.79		0.00500	mmhos/cm	1	B4H2217	08/22/2024	08/23/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.99		0.258	mg/kg	10	B4H1939	08/19/2024	08/22/2024	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

WH01-E@4

8/16/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 Y408509-03 (Soil)

Table 915 metals by EPA 6020B

Barium	58.4		8.89	mg/kg	10	B4H1939	08/19/2024	08/22/2024	
Cadmium	0.0978		0.0889	"	"	"	"	"	
Copper	ND		8.89	"	"	"	"	"	
Lead	290		0.889	"	"	"	"	"	
Nickel	4.38		0.889	"	"	"	"	"	
Selenium	0.244		0.231	"	"	"	"	"	
Silver	ND		0.0889	"	"	"	"	"	
Zinc	ND		32.9	"	"	"	"	"	

Total Metals 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L768443	08/16/2024	08/21/2024	
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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Lucci B01-23

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H2032 - EPA 3550B										
Blank (B4H2032-BLK1)										
					Prepared: 08/20/2024 Analyzed: 08/21/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.5	50-150			

Origins Laboratory



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Lucci B01-23

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2032 - EPA 3550B

LCS (B4H2032-BS1)

Prepared: 08/20/2024 Analyzed: 08/21/2024

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	43		"	49.8		87.1	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 - Lucci B01-23

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2032 - EPA 3550B

Matrix Spike (B4H2032-MS1)	Source: Y408495-01			Prepared: 08/20/2024 Analyzed: 08/21/2024						
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.9	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 - Lucci B01-23

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H2032 - EPA 3550B										
Matrix Spike Dup (B4H2032-MSD1)		Source: Y408495-01			Prepared: 08/20/2024 Analyzed: 08/21/2024					
Diesel (C10-C28)	1170	50.0	mg/kg	1000	ND	117	70-130	7.57	35	
Residual Range Organics (C28-C40)	1250	200	"	1000	ND	125	70-130	8.38	35	
Surrogate: o-Terphenyl	47		"	49.8		95.2	50-150			

Origins Laboratory



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Lucci B01-23

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2044 - EPA 5030 (soil)

Blank (B4H2044-BLK1)

Prepared: 08/20/2024 Analyzed: 08/22/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	110		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		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 Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2044 - EPA 5030 (soil)

LCS (B4H2044-BS1)

Prepared: 08/20/2024 Analyzed: 08/22/2024

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0915	0.00200	"	0.100		91.5	70-130			
Ethylbenzene	0.0987	0.00200	"	0.100		98.7	70-130			
Naphthalene	0.120	0.00380	"	0.100		120	70-130			
Toluene	0.0935	0.00200	"	0.100		93.5	70-130			
o-Xylene	0.0971	0.00200	"	0.100		97.1	70-130			
m,p-Xylene	0.196	0.00400	"	0.200		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2044 - EPA 5030 (soil)

Matrix Spike (B4H2044-MS1)	Source: Y408452-21			Prepared: 08/20/2024 Analyzed: 08/22/2024						
1,2,4-Trimethylbenzene	0.0830	0.00200	mg/kg	0.100	ND	83.0	70-130			
1,3,5-Trimethylbenzene	0.0838	0.00200	"	0.100	ND	83.8	70-130			
Benzene	0.0792	0.00200	"	0.100	ND	79.2	70-130			
Ethylbenzene	0.0845	0.00200	"	0.100	ND	84.5	70-130			
Naphthalene	0.0927	0.00380	"	0.100	ND	92.7	70-130			
Toluene	0.0800	0.00200	"	0.100	ND	80.0	70-130			
o-Xylene	0.0826	0.00200	"	0.100	ND	82.6	70-130			
m,p-Xylene	0.169	0.00400	"	0.200	ND	84.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2044 - EPA 5030 (soil)

Matrix Spike Dup (B4H2044-MSD1)	Source: Y408452-21			Prepared: 08/20/2024 Analyzed: 08/22/2024						
1,2,4-Trimethylbenzene	0.0786	0.00200	mg/kg	0.100	ND	78.6	70-130	5.40	20	
1,3,5-Trimethylbenzene	0.0787	0.00200	"	0.100	ND	78.7	70-130	6.28	20	
Benzene	0.0772	0.00200	"	0.100	ND	77.2	70-130	2.63	20	
Ethylbenzene	0.0797	0.00200	"	0.100	ND	79.7	70-130	5.84	20	
Naphthalene	0.0927	0.00380	"	0.100	ND	92.7	70-130	0.0216	20	
Toluene	0.0765	0.00200	"	0.100	ND	76.5	70-130	4.42	20	
o-Xylene	0.0780	0.00200	"	0.100	ND	78.0	70-130	5.73	20	
m,p-Xylene	0.160	0.00400	"	0.200	ND	79.9	70-130	5.37	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory



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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H1939 - EPA 3050B

Blank (B4H1939-BLK1)

Prepared: 08/19/2024 Analyzed: 08/22/2024

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 (B4H1939-BS1)

Prepared: 08/19/2024 Analyzed: 08/22/2024

Arsenic	4.98	0.290	mg/kg	5.00	99.7	80-120
Barium	487	10.0	"	500	97.5	80-120
Cadmium	5.01	0.100	"	5.00	100	80-120
Copper	53.7	10.0	"	50.0	107	80-120
Lead	4.95	1.00	"	5.00	99.0	80-120
Nickel	5.49	1.00	"	5.00	110	80-120
Selenium	4.70	0.260	"	5.00	94.0	80-120
Silver	4.51	0.100	"	5.00	90.2	80-120
Zinc	51.8	37.0	"	50.0	104	80-120

Matrix Spike (B4H1939-MS1)

Source: Y408459-02

Prepared: 08/19/2024 Analyzed: 08/22/2024

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H1939 - EPA 3050B

Matrix Spike (B4H1939-MS1)	Source: Y408459-02	Prepared: 08/19/2024 Analyzed: 08/22/2024
Arsenic	6.20	0.269 mg/kg
Barium	549	9.26 "
Cadmium	4.58	0.0926 "
Copper	73.5	9.26 "
Lead	13.0	0.926 "
Nickel	20.7	0.926 "
Selenium	4.57	0.241 "
Silver	4.14	0.0926 "
Zinc	99.0	34.3 "

Matrix Spike Dup (B4H1939-MSD1)	Source: Y408459-02	Prepared: 08/19/2024 Analyzed: 08/22/2024
Arsenic	6.43	0.261 mg/kg
Barium	530	9.00 "
Cadmium	4.42	0.0900 "
Copper	68.6	9.00 "
Lead	12.2	0.900 "
Nickel	19.5	0.900 "
Selenium	4.08	0.234 "
Silver	3.87	0.0900 "
Zinc	91.5	33.3 "

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2030 - EPA 3580

Blank (B4H2030-BLK1)

Prepared: 08/20/2024 Analyzed: 08/22/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200	101	60-130
Surrogate: Anthracene-d10	180		"	200	91.5	60-130
Surrogate: Pyrene-d10	220		"	200	109	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	99.7	60-130

LCS (B4H2030-BS1)

Prepared: 08/20/2024 Analyzed: 08/22/2024

1-Methylnaphthalene	0.175	0.002	mg/kg	0.200	87.6	70-130
2-Methylnaphthalene	0.175	0.002	"	0.200	87.3	70-130
Acenaphthene	0.185	0.020	"	0.200	92.4	70-130
Anthracene	0.165	0.020	"	0.200	82.5	70-130

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2030 - EPA 3580

LCS (B4H2030-BS1)

Prepared: 08/20/2024 Analyzed: 08/22/2024

Benzo (a) anthracene	0.184	0.005	mg/kg	0.200		91.8	70-130			
Benzo (a) pyrene	0.180	0.020	"	0.200		90.0	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200		95.2	70-130			
Benzo (g,h,i) perylene	0.164	0.020	"	0.200		82.2	70-130			
Benzo (k) fluoranthene	0.180	0.020	"	0.200		89.8	70-130			
Chrysene	0.184	0.020	"	0.200		92.1	70-130			
Dibenz (a,h) anthracene	0.175	0.020	"	0.200		87.3	70-130			
Fluoranthene	0.212	0.020	"	0.200		106	70-130			
Fluorene	0.183	0.020	"	0.200		91.7	70-130			
Indeno (1,2,3-cd) pyrene	0.174	0.020	"	0.200		87.2	70-130			
Naphthalene	0.189	0.002	"	0.200		94.7	70-130			
Phenanthrene	0.172	0.020	"	0.200		86.1	70-130			
Pyrene	0.204	0.020	"	0.200		102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		93.5	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.9	60-130			

Matrix Spike (B4H2030-MS1)

Source: Y408425-03

Prepared: 08/20/2024 Analyzed: 08/22/2024

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.002	95.4	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200	ND	93.3	70-130			
Acenaphthene	0.201	0.020	"	0.200	ND	101	70-130			
Anthracene	0.181	0.020	"	0.200	ND	90.6	70-130			
Benzo (a) anthracene	0.203	0.005	"	0.200	0.0005	101	70-130			
Benzo (a) pyrene	0.194	0.020	"	0.200	ND	97.2	70-130			
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.0005	105	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.001	93.5	70-130			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2030 - EPA 3580

Matrix Spike (B4H2030-MS1)		Source: Y408425-03			Prepared: 08/20/2024 Analyzed: 08/22/2024					
Benzo (k) fluoranthene	0.199	0.020	mg/kg	0.200	ND	99.4	70-130			
Chrysene	0.199	0.020	"	0.200	0.0005	99.4	70-130			
Dibenz (a,h) anthracene	0.187	0.020	"	0.200	0.001	93.1	70-130			
Fluoranthene	0.225	0.020	"	0.200	ND	112	70-130			
Fluorene	0.199	0.020	"	0.200	ND	99.5	70-130			
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.5	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	99.8	70-130			
Phenanthrene	0.188	0.020	"	0.200	ND	94.0	70-130			
Pyrene	0.220	0.020	"	0.200	ND	110	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	180		"	200		92.3	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B4H2030-MSD1)		Source: Y408425-03			Prepared: 08/20/2024 Analyzed: 08/22/2024					
1-Methylnaphthalene	0.184	0.002	mg/kg	0.200	0.002	91.1	70-130	4.53	20	
2-Methylnaphthalene	0.181	0.002	"	0.200	ND	90.5	70-130	3.06	20	
Acenaphthene	0.192	0.020	"	0.200	ND	96.1	70-130	4.51	20	
Anthracene	0.171	0.020	"	0.200	ND	85.4	70-130	5.86	20	
Benzo (a) anthracene	0.191	0.005	"	0.200	0.0005	95.4	70-130	5.68	20	
Benzo (a) pyrene	0.192	0.020	"	0.200	ND	95.8	70-130	1.51	20	
Benzo (b) fluoranthene	0.204	0.020	"	0.200	0.0005	102	70-130	2.98	20	
Benzo (g,h,i) perylene	0.180	0.020	"	0.200	0.001	89.5	70-130	4.43	20	
Benzo (k) fluoranthene	0.190	0.020	"	0.200	ND	94.8	70-130	4.70	20	
Chrysene	0.191	0.020	"	0.200	0.0005	95.2	70-130	4.22	20	
Dibenz (a,h) anthracene	0.190	0.020	"	0.200	0.001	94.5	70-130	1.46	20	
Fluoranthene	0.215	0.020	"	0.200	ND	107	70-130	4.68	20	

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Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2030 - EPA 3580

Matrix Spike Dup (B4H2030-MSD1)	Source: Y408425-03			Prepared: 08/20/2024 Analyzed: 08/22/2024						
Fluorene	0.190	0.020	mg/kg	0.200	ND	94.9	70-130	4.74	20	
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200	ND	92.9	70-130	0.635	20	
Naphthalene	0.193	0.002	"	0.200	ND	96.3	70-130	3.57	20	
Phenanthrene	0.186	0.020	"	0.200	ND	93.2	70-130	0.892	20	
Pyrene	0.208	0.020	"	0.200	ND	104	70-130	5.56	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

Classical Chemistry Parameters - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H2109 - DTPA Sorbitol Preparation

Blank (B4H2109-BLK1)

Prepared: 08/21/2024 Analyzed: 08/22/2024

Boron ND 0.100 mg/L

Duplicate (B4H2109-DUP1)

Source: Y408472-05

Prepared: 08/21/2024 Analyzed: 08/22/2024

Boron 0.232 0.101 mg/L 0.251 7.88 50

Batch B4H2207 - Saturated Paste Metals

Blank (B4H2207-BLK1)

Prepared: 08/22/2024 Analyzed: 08/23/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B4H2207-DUP1)

Source: Y408495-01

Prepared: 08/22/2024 Analyzed: 08/23/2024

Calcium PPM 20.4 10.0 mg/L 21.9 6.95 50

SAR ND 0.0100 SAR ND 200

Magnesium PPM 13.8 10.0 mg/L 14.6 5.63 50

Sodium PPM 30.3 10.0 " 31.6 4.30 50

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Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

**Saturated Paste - Quality Control
Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H2217 - Saturated Paste pH/EC										
Blank (B4H2217-BLK1)					Prepared: 08/22/2024 Analyzed: 08/23/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4H2217-DUP1)					Source: Y408495-01 Prepared: 08/22/2024 Analyzed: 08/23/2024					
pH	7.97		pH Units		8.11			1.74	25	
Specific Conductance (EC)	0.292	0.00500	mmhos/cm		0.293			0.479	25	

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Lucci B01-23

Total Metals 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L768443 -										
DUP (L 81933-DUP)		Source: 81933			Prepared: Analyzed: 08/21/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 81933-MS)		Source: 81933			Prepared: Analyzed: 08/21/2024					
Chromium, Hexavalent	27.4	2.5	mg/Kg	39.3	< 0.244	70	75-125			*
LCS (LCS)		Prepared: Analyzed: 08/21/2024								
Chromium, Hexavalent	6.77	0.5	mg/Kg	8		85	75-125			
LRB (LRB)		Prepared: Analyzed: 08/21/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Lucci B01-23

Notes and Definitions

U Sample is Non-Detect.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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