



Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

September 11, 2024

Project Name - Chevron - Monfort Gilcrest K08-09 Project Number - [none]

Attached are your analytical results for Chevron - Monfort Gilcrest K08-09 received by Origins Laboratory August 12, 2024. This project is associated with Origins project number Y408274-05.

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 - Monfort Gilcrest K08-09

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01-S@4	Y408274-05	Soil	August 12, 2024 8:20	08/12/2024 16:55
GW01	Y408274-06	Water	August 12, 2024 8:25	08/12/2024 16:55

Chain of Custody Modification Request

On 8/12/2024, Chelsea Veryser from Entrada contacted Jordan Bynon via email regarding Y408274 requesting that WH01@6 be placed on hold. Requested modifications to the chain of custody were made by Jordan Bynon on 8/13/2024.

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

ORIGINS

LABORATORY INC

ORIGINAL WORK ORDER #

Page 1 of 1

Client: Entrada

Address:

Project Manager:

Project Name:

Project Number:

Key:

Telephone Number: 203-311-8703

Email Address:

Collected By:

Invoice/Billing Info:

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

Entrada Distribution Co. 1000 West 27th Ave, Suite 100

Bill to Chevron (Mfg. Smith)

SW=Surface Water

WW=Waste Water

GW=Groundwater

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis					Comments
							Table 915	Table 916	Table 917	Table 918	Table 919	
1	WHL-06	8/12/24	0800	2	SW	WHP	X					BTX + TPH in SW
2	WHL-06		0805									440
3	WHL-06		0810									440
4	WHL-06		0815									440
5	WHL-06		0820				X					440
6	WHL-06		0825				X	X	X	X	X	BTX + TPH in SW
7												
8												
9												
10												

Relinquished By: [Signature] Date: 8/12/24 Time: 1500

Received By: [Signature] Date: 8/12/24 Time: 1505

Temp Received: 3.0 Received On Ice? ☒ Yes ☐ No

Standard

Origins Laboratory

[Signature]

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Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4408274

Client: Entrada
Client Project ID: Monfort Gilcrest

Checklist Completed by: JBT
Date/time completed: 8/12/24

Shipped Via: TUP
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☒ Water ☐ Other: _____
Cooler Number/Temperature: 1 / 3.40 °C _____ / _____ °C (Describe) _____ °C
Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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"/>			<u>not checked</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) [Signature]

Date/Time Reviewed 8/12/24

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 - Monfort Gilcrest K08-09

WH01-S@4

8/12/2024 8:20:00AM

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

Y408274-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.175	0.100	mg/L	1	B4H1310	08/13/2024	08/14/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H1225	08/12/2024	08/13/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	70.1 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H1231	08/12/2024	08/12/2024	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	"	"	"	"	08/13/2024	Ua

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130	"	"	08/12/2024
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Origins Laboratory



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

WH01-S@4

8/12/2024 8:20:00AM

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

Y408274-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B4H12 31	08/12/2024	08/12/2024
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130	"	"	"


Metals by Saturated Paste by EPA 6010

Calcium	0.888	0.499	meq/L	10	[CALC]	08/13/2024	08/14/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.619	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H1327	08/13/2024	08/16/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

WH01-S@4

8/12/2024 8:20:00AM

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

Y408274-05 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4H1327	08/13/2024	08/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	75.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	109 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.37	pH Units	1	B4H1321	08/13/2024	08/14/2024
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SAR by 20B Saturated Paste

SAR	0.815	0.0100	SAR	1	B4H1316	08/13/2024	08/14/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.296	0.00500	mmhos/cm	1	B4H1321	08/13/2024	08/14/2024
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Table 915 metals by EPA 6020B

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Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

WH01-S@4

8/12/2024 8:20:00AM

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

Y408274-05 (Soil)


Table 915 metals by EPA 6020B

Arsenic	0.922	0.261	mg/kg	10	B4H1330	08/13/2024	08/15/2024
Barium	31.5	9.01	"	"	"	"	"
Cadmium	0.166	0.0901	"	"	"	"	"
Copper	ND	9.01	"	"	"	"	"
Lead	9.69	0.901	"	"	"	"	"
Nickel	2.60	0.901	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"
Silver	ND	0.0901	"	"	"	"	"
Zinc	ND	33.3	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.117	0.294	mg/kg dry	1	2668276	09/09/2024	09/10/2024	U
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330 Grand Ave. Unit C

Grand Junction CO 81501

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Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

GW01

8/12/2024 8:25:00AM

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

Y408274-06 (Water)

Anions by IC 300.0

Chloride	184	31.2	mg/L	125	B4H1305	08/13/2024	08/15/2024
Sulfate	236	31.2	"	"	"	"	"

BTEX+N+TMBs by 8260D


1,2,4-Trimethylbenzene	4.04	2.00	ug/L	1	B4H1334	08/13/2024	08/13/2024	
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	Ua
Benzene	ND	1.00	"	"	"	"	"	Ua
Ethylbenzene	1.67	1.00	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	Ua
Toluene	1.55	1.00	"	"	"	"	"	
Xylenes, total	5.66	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130	"	"	"
Surrogate: Toluene-d8	92.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Total Dissolved Solids by 2540C

Total Dissolved Solids	1020	5.00	mg/L	1	B4H1306	08/13/2024	08/15/2024
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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1225 - EPA 3550B										
Blank (B4H1225-BLK1)					Prepared: 08/12/2024 Analyzed: 08/12/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		93.3	50-150			

Origins Laboratory



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1225 - EPA 3550B

LCS (B4H1225-BS1)

Prepared: 08/12/2024 Analyzed: 08/12/2024

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.0	50-150			

Origins Laboratory



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1225 - EPA 3550B

Matrix Spike (B4H1225-MS1)		Source: Y408267-01			Prepared: 08/12/2024 Analyzed: 08/12/2024					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.4	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1225 - EPA 3550B

Matrix Spike Dup (B4H1225-MSD1)		Source: Y408267-01			Prepared: 08/12/2024 Analyzed: 08/12/2024					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	2.33	35	
Residual Range Organics (C28-C40)	1170	200	"	1000	ND	117	70-130	3.11	35	
Surrogate: o-Terphenyl	48		"	49.8		96.5	50-150			

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330 Grand Ave. Unit C

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Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1231 - EPA 5030 (soil)										
Blank (B4H1231-BLK1)					Prepared: 08/12/2024 Analyzed: 08/12/2024					
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		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1231 - EPA 5030 (soil)

LCS (B4H1231-BS1)

Prepared: 08/12/2024 Analyzed: 08/12/2024

1,2,4-Trimethylbenzene	0.0863	0.00200	mg/kg	0.100		86.3	70-130			
1,3,5-Trimethylbenzene	0.0871	0.00200	"	0.100		87.1	70-130			
Benzene	0.0861	0.00200	"	0.100		86.1	70-130			
Ethylbenzene	0.0848	0.00200	"	0.100		84.8	70-130			
Naphthalene	0.0909	0.00380	"	0.100		90.9	70-130			
Toluene	0.0823	0.00200	"	0.100		82.3	70-130			
o-Xylene	0.0832	0.00200	"	0.100		83.2	70-130			
m,p-Xylene	0.169	0.00400	"	0.200		84.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Grand Junction CO 81501

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Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1231 - EPA 5030 (soil)

Matrix Spike (B4H1231-MS1)		Source: Y408271-01			Prepared: 08/12/2024 Analyzed: 08/12/2024					
1,2,4-Trimethylbenzene	0.0792	0.00200	mg/kg	0.100	ND	79.2	70-130			
1,3,5-Trimethylbenzene	0.0804	0.00200	"	0.100	ND	80.4	70-130			
Benzene	0.0797	0.00200	"	0.100	ND	79.7	70-130			
Ethylbenzene	0.0783	0.00200	"	0.100	ND	78.3	70-130			
Naphthalene	0.0851	0.00380	"	0.100	ND	85.1	70-130			
Toluene	0.0758	0.00200	"	0.100	ND	75.8	70-130			
o-Xylene	0.0769	0.00200	"	0.100	ND	76.9	70-130			
m,p-Xylene	0.157	0.00400	"	0.200	ND	78.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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330 Grand Ave. Unit C

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Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1231 - EPA 5030 (soil)

Matrix Spike Dup (B4H1231-MSD1)		Source: Y408271-01			Prepared: 08/12/2024 Analyzed: 08/12/2024					
1,2,4-Trimethylbenzene	0.0789	0.00200	mg/kg	0.100	ND	78.9	70-130	0.430	20	
1,3,5-Trimethylbenzene	0.0799	0.00200	"	0.100	ND	79.9	70-130	0.574	20	
Benzene	0.0789	0.00200	"	0.100	ND	78.9	70-130	1.01	20	
Ethylbenzene	0.0770	0.00200	"	0.100	ND	77.0	70-130	1.70	20	
Naphthalene	0.0855	0.00380	"	0.100	ND	85.5	70-130	0.422	20	
Toluene	0.0738	0.00200	"	0.100	ND	73.8	70-130	2.59	20	
o-Xylene	0.0761	0.00200	"	0.100	ND	76.1	70-130	0.993	20	
m,p-Xylene	0.154	0.00400	"	0.200	ND	77.0	70-130	1.76	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1334 - EPA 5030B (Water)

Blank (B4H1334-BLK1)

Prepared: 08/13/2024 Analyzed: 08/13/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	54		"	62.5		85.6	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1334 - EPA 5030B (Water)

LCS (B4H1334-BS1)

Prepared: 08/13/2024 Analyzed: 08/13/2024

1,2,4-Trimethylbenzene	57.5	2.00	ug/L	50.0		115	70-130			
1,3,5-Trimethylbenzene	58.2	2.00	"	50.0		116	70-130			
Benzene	53.6	1.00	"	50.0		107	70-130			
Ethylbenzene	58.6	1.00	"	50.0		117	70-130			
m,p-Xylene	116	2.00	"	100		116	70-130			
Naphthalene	49.2	2.00	"	50.0		98.4	70-130			
o-Xylene	53.4	1.00	"	50.0		107	70-130			
Toluene	55.3	1.00	"	50.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1334 - EPA 5030B (Water)

Matrix Spike (B4H1334-MS1)		Source: Y408274-06			Prepared: 08/13/2024 Analyzed: 08/13/2024					
1,2,4-Trimethylbenzene	57.7	2.00	ug/L	50.0	4.04	107	70-130			
1,3,5-Trimethylbenzene	56.1	2.00	"	50.0	1.72	109	70-130			
Benzene	54.0	1.00	"	50.0	ND	108	70-130			
Ethylbenzene	59.4	1.00	"	50.0	1.67	115	70-130			
m,p-Xylene	120	2.00	"	100	4.19	115	70-130			
Naphthalene	49.0	2.00	"	50.0	1.87	94.2	70-130			
o-Xylene	55.7	1.00	"	50.0	1.47	108	70-130			
Toluene	54.4	1.00	"	50.0	1.55	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.8	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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330 Grand Ave. Unit C

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Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1334 - EPA 5030B (Water)

Matrix Spike Dup (B4H1334-MSD1)		Source: Y408274-06			Prepared: 08/13/2024 Analyzed: 08/13/2024					
1,2,4-Trimethylbenzene	54.6	2.00	ug/L	50.0	4.04	101	70-130	5.65	20	
1,3,5-Trimethylbenzene	51.5	2.00	"	50.0	1.72	99.6	70-130	8.46	20	
Benzene	52.2	1.00	"	50.0	ND	104	70-130	3.46	20	
Ethylbenzene	57.3	1.00	"	50.0	1.67	111	70-130	3.46	20	
m,p-Xylene	116	2.00	"	100	4.19	112	70-130	2.75	20	
Naphthalene	49.1	2.00	"	50.0	1.87	94.4	70-130	0.224	20	
o-Xylene	53.7	1.00	"	50.0	1.47	105	70-130	3.62	20	
Toluene	49.6	1.00	"	50.0	1.55	96.2	70-130	9.26	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.5	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.2	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1330 - EPA 3050B

Blank (B4H1330-BLK1)

Prepared: 08/13/2024 Analyzed: 08/15/2024

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 (B4H1330-BS1)

Prepared: 08/13/2024 Analyzed: 08/15/2024


Arsenic	5.34	0.290	mg/kg	5.00	107	80-120
Barium	475	10.0	"	500	95.1	80-120
Cadmium	5.38	0.100	"	5.00	108	80-120
Copper	52.4	10.0	"	50.0	105	80-120
Lead	5.01	1.00	"	5.00	100	80-120
Nickel	5.07	1.00	"	5.00	101	80-120
Selenium	5.19	0.260	"	5.00	104	80-120
Silver	5.25	0.100	"	5.00	105	80-120
Zinc	51.5	37.0	"	50.0	103	80-120

Matrix Spike (B4H1330-MS1)

Source: Y408283-01

Prepared: 08/13/2024 Analyzed: 08/15/2024

Origins Laboratory



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Chelsea Verysen

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1330 - EPA 3050B

Matrix Spike (B4H1330-MS1)		Source: Y408283-01			Prepared: 08/13/2024 Analyzed: 08/15/2024					
Arsenic	8.06	0.258	mg/kg	4.45	3.04	113	75-125			
Barium	541	8.91	"	445	90.0	101	75-125			
Cadmium	5.15	0.0891	"	4.45	0.207	111	75-125			
Copper	56.5	8.91	"	44.5	9.03	106	75-125			
Lead	19.7	0.891	"	4.45	17.3	54.2	75-125			QM-07
Nickel	12.8	0.891	"	4.45	7.51	119	75-125			
Selenium	4.57	0.232	"	4.45	0.100	100	75-125			
Silver	4.71	0.0891	"	4.45	0.0420	105	75-125			
Zinc	88.8	33.0	"	44.5	36.7	117	75-125			

Matrix Spike Dup (B4H1330-MSD1)		Source: Y408283-01			Prepared: 08/13/2024 Analyzed: 08/15/2024					
Arsenic	8.01	0.260	mg/kg	4.48	3.04	111	75-125	0.544	20	
Barium	563	8.96	"	448	90.0	106	75-125	3.96	20	
Cadmium	5.15	0.0896	"	4.48	0.207	110	75-125	0.0866	20	
Copper	53.5	8.96	"	44.8	9.03	99.3	75-125	5.31	20	
Lead	19.3	0.896	"	4.48	17.3	45.0	75-125	2.04	20	QM-07
Nickel	11.8	0.896	"	4.48	7.51	95.6	75-125	8.13	20	
Selenium	4.74	0.233	"	4.48	0.100	104	75-125	3.76	20	
Silver	4.79	0.0896	"	4.48	0.0420	106	75-125	1.64	20	
Zinc	79.7	33.2	"	44.8	36.7	96.1	75-125	10.7	20	

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1327 - EPA 3580

Blank (B4H1327-BLK1)

Prepared: 08/13/2024 Analyzed: 08/16/2024

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	160		"	200		82.1	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.3	60-130			

LCS (B4H1327-BS1)

Prepared: 08/13/2024 Analyzed: 08/16/2024

1-Methylnaphthalene	0.174	0.002	mg/kg	0.200		86.9	70-130			
2-Methylnaphthalene	0.177	0.002	"	0.200		88.4	70-130			
Acenaphthene	0.194	0.020	"	0.200		97.2	70-130			
Anthracene	0.159	0.020	"	0.200		79.4	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Verysen

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1327 - EPA 3580

LCS (B4H1327-BS1)

Prepared: 08/13/2024 Analyzed: 08/16/2024

Benzo (a) anthracene	0.163	0.005	mg/kg	0.200		81.7	70-130
Benzo (a) pyrene	0.169	0.020	"	0.200		84.7	70-130
Benzo (b) fluoranthene	0.229	0.020	"	0.200		114	70-130
Benzo (g,h,i) perylene	0.186	0.020	"	0.200		93.0	70-130
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.7	70-130
Chrysene	0.180	0.020	"	0.200		90.1	70-130
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		105	70-130
Fluoranthene	0.200	0.020	"	0.200		100	70-130
Fluorene	0.195	0.020	"	0.200		97.6	70-130
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200		93.0	70-130
Naphthalene	0.191	0.002	"	0.200		95.7	70-130
Phenanthrene	0.181	0.020	"	0.200		90.5	70-130
Pyrene	0.193	0.020	"	0.200		96.4	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	160		"	200		79.3	60-130
Surrogate: Pyrene-d10	210		"	200		105	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130

Matrix Spike (B4H1327-MS1)

Source: Y408260-01

Prepared: 08/13/2024 Analyzed: 08/16/2024

1-Methylnaphthalene	0.174	0.002	mg/kg	0.200	ND	87.1	70-130
2-Methylnaphthalene	0.175	0.002	"	0.200	ND	87.5	70-130
Acenaphthene	0.196	0.020	"	0.200	ND	98.1	70-130
Anthracene	0.156	0.020	"	0.200	0.0005	77.9	70-130
Benzo (a) anthracene	0.165	0.005	"	0.200	0.0005	82.2	70-130
Benzo (a) pyrene	0.165	0.020	"	0.200	0.002	81.7	70-130
Benzo (b) fluoranthene	0.224	0.020	"	0.200	0.002	111	70-130
Benzo (g,h,i) perylene	0.189	0.020	"	0.200	0.002	93.9	70-130

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Verysen
Project Number: [none]
Project: Chevron - Monfort Gilcrest K08-09

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 B4H1327 - EPA 3580

Matrix Spike (B4H1327-MS1)		Source: Y408260-01			Prepared: 08/13/2024 Analyzed: 08/16/2024					
Benzo (k) fluoranthene	0.208	0.020	mg/kg	0.200	0.001	104	70-130			
Chrysene	0.182	0.020	"	0.200	0.002	89.9	70-130			
Dibenz (a,h) anthracene	0.210	0.020	"	0.200	ND	105	70-130			
Fluoranthene	0.193	0.020	"	0.200	0.001	95.9	70-130			
Fluorene	0.195	0.020	"	0.200	ND	97.3	70-130			
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200	ND	93.1	70-130			
Naphthalene	0.191	0.002	"	0.200	ND	95.5	70-130			
Phenanthrene	0.182	0.020	"	0.200	ND	91.1	70-130			
Pyrene	0.192	0.020	"	0.200	0.001	95.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	160		"	200		81.9	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4H1327-MSD1)		Source: Y408260-01			Prepared: 08/13/2024 Analyzed: 08/16/2024					
1-Methylnaphthalene	0.175	0.002	mg/kg	0.200	ND	87.7	70-130	0.671	20	
2-Methylnaphthalene	0.177	0.002	"	0.200	ND	88.4	70-130	0.992	20	
Acenaphthene	0.197	0.020	"	0.200	ND	98.3	70-130	0.170	20	
Anthracene	0.153	0.020	"	0.200	0.0005	76.0	70-130	2.45	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.0005	85.4	70-130	3.83	20	
Benzo (a) pyrene	0.175	0.020	"	0.200	0.002	86.6	70-130	5.77	20	
Benzo (b) fluoranthene	0.192	0.020	"	0.200	0.002	95.2	70-130	15.3	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	0.002	94.7	70-130	0.827	20	
Benzo (k) fluoranthene	0.197	0.020	"	0.200	0.001	97.8	70-130	5.68	20	
Chrysene	0.180	0.020	"	0.200	0.002	89.3	70-130	0.751	20	
Dibenz (a,h) anthracene	0.217	0.020	"	0.200	ND	108	70-130	3.15	20	
Fluoranthene	0.204	0.020	"	0.200	0.001	101	70-130	5.43	20	

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Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1327 - EPA 3580

Matrix Spike Dup (B4H1327-MSD1)		Source: Y408260-01			Prepared: 08/13/2024 Analyzed: 08/16/2024					
Fluorene	0.193	0.020	mg/kg	0.200	ND	96.6	70-130	0.764	20	
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	ND	94.7	70-130	1.74	20	
Naphthalene	0.192	0.002	"	0.200	ND	96.0	70-130	0.560	20	
Phenanthrene	0.179	0.020	"	0.200	ND	89.5	70-130	1.71	20	
Pyrene	0.195	0.020	"	0.200	0.001	97.1	70-130	2.00	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	160		"	200		80.6	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.5	60-130			

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330 Grand Ave. Unit C
Grand Junction CO 81501


Chelsea Veryser
Project Number: [none]
Project: Chevron - Monfort Gilcrest K08-09

Classical Chemistry Parameters - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H1305 - Filter .45um non acidified										
Blank (B4H1305-BLK1)					Prepared: 08/13/2024 Analyzed: 08/14/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B4H1305-BS1)					Prepared: 08/13/2024 Analyzed: 08/14/2024					
Chloride	3.97	0.250	mg/L	4.00		99.2	90-110			
Sulfate	4.01	0.250	"	4.00		100	90-110			
Matrix Spike (B4H1305-MS1)					Source: Y408262-01		Prepared: 08/13/2024 Analyzed: 08/14/2024			
Chloride	517		mg/L	500	21.6	99.1	90-110			
Sulfate	555		"	500	46.9	102	90-110			
Matrix Spike Dup (B4H1305-MSD1)					Source: Y408262-01		Prepared: 08/13/2024 Analyzed: 08/14/2024			
Chloride	521		mg/L	500	21.6	99.8	90-110	0.674	5	
Sulfate	558		"	500	46.9	102	90-110	0.472	5	
Batch B4H1306 - NO PREP										
Blank (B4H1306-BLK1)					Prepared: 08/13/2024 Analyzed: 08/15/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4H1306-BS1)					Prepared: 08/13/2024 Analyzed: 08/15/2024					
Total Dissolved Solids	1010	5.00	mg/L	1020		99.0	90-110			
Duplicate (B4H1306-DUP1)					Source: Y408262-07		Prepared: 08/13/2024 Analyzed: 08/15/2024			
Total Dissolved Solids	912	5.00	mg/L		932			2.17	10	

Origins Laboratory



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Entrada Consulting Group

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Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 B4H1310 - DTPA Sorbitol Preparation

Blank (B4H1310-BLK1)

Prepared: 08/13/2024 Analyzed: 08/14/2024

Boron ND 0.100 mg/L

Duplicate (B4H1310-DUP1)

Source: Y408259-01

Prepared: 08/13/2024 Analyzed: 08/14/2024

Boron 3.78 0.101 mg/L 3.96 4.51 50

Batch B4H1316 - Saturated Paste Metals

Blank (B4H1316-BLK1)

Prepared: 08/13/2024 Analyzed: 08/14/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4H1316-DUP1)

Source: Y408261-09

Prepared: 08/13/2024 Analyzed: 08/14/2024

SAR ND 0.0100 SAR 27.4 200

Calcium PPM 2.39 10.0 mg/L 2.41 0.833 50

Magnesium PPM 0.460 10.0 " 0.440 4.44 50

Sodium PPM 168 10.0 " 176 4.52 50

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Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

Saturated Paste - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H1321 - Saturated Paste pH/EC

Blank (B4H1321-BLK1)

Prepared: 08/13/2024 Analyzed: 08/14/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4H1321-DUP1)

Source: Y408261-09

Prepared: 08/13/2024 Analyzed: 08/14/2024

pH	8.90		pH Units	9.26		3.96	25
Specific Conductance (EC)	0.755	0.00500	mmhos/cm	0.616		20.3	25

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Chelsea Veryser


Project Number: [none]

Project: Chevron - Monfort Gilcrest K08-09

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 2668276 - SW846 3060A										
BLANK (1205846541-BLK)					Prepared: 09/09/2024 Analyzed: 09/10/2024					
Hexavalent Chromium	ND	0.362	mg/kg				-			U
LCS (1205846542-BKS)					Prepared: 09/09/2024 Analyzed: 09/10/2024					
Hexavalent Chromium	3.90	0.394	mg/kg	3.94		99.1	80-120			
DUP (1205846543 D)					Source: Y408274-05 Prepared: 09/09/2024 Analyzed: 09/10/2024					
Hexavalent Chromium	ND	0.294	mg/kg dry		<0.117		0-50	N/A	50	U
MS (1205846544 S)					Source: Y408274-05 Prepared: 09/09/2024 Analyzed: 09/10/2024					
Hexavalent Chromium	2.30	0.294	mg/kg dry	2.94	<0.117	76.7	75-125			
DUP (1205846545 D)					Source: 681091005 Prepared: 09/09/2024 Analyzed: 09/10/2024					
Hexavalent Chromium	ND	0.290	mg/kg dry		<0.116		0-50	N/A	50	U
MS (1205846546 S)					Source: 681091005 Prepared: 09/09/2024 Analyzed: 09/10/2024					
Hexavalent Chromium	2.65	0.290	mg/kg dry	2.90	<0.116	88.7	75-125			
ILCS (1205846547-ILCS)					Prepared: 09/09/2024 Analyzed: 09/10/2024					
Hexavalent Chromium	8.26	0.388	mg/kg	7.79		106	80-120			

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Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit


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.

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