

May 09, 2024

**Entrada Consulting Group**

**Chelsea Veryter**

**330 Grand Ave. Unit C**

**Grand Junction CO 81501**

**Project Name - Chevron - Markus 01**

**Project Number - [none]**

Attached are your analytical results for Chevron - Markus 01 received by Origins Laboratory, Inc. April 30, 2024. This project is associated with Origins project number Y405010-01.

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

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

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

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

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

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



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Markus 01

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	Y405010-01	Water	April 30, 2024 14:25	04/30/2024 15:00

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Markus 01

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y405010

Client: Entrada

Client Project ID: Markus 01

Checklist Completed by: SA

Shipped Via: HO  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/30/14

Airbill #: N/A

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

Cooler Number/Temperature: 1, 19.7°C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		/		
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3: HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

JTB  
Reviewed by (Project Manager)

5/2/14  
Date/Time Reviewed

Origins Laboratory, Inc.

*J Byron*

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 Grand Junction CO 81501

Chelsea Veryter  
 Project Number: [none]  
 Project: Chevron - Markus 01

**GW01**

**4/30/2024 2:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y405010-01 (Water)**

**Anions by IC 300.0**

Chloride	203	31.2	mg/L	125	B4E0122	DLT	05/01/2024	05/02/2024	
Sulfate	249	31.2	"	"	"	DLT	"	"	

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0143	JSM	05/01/2024	05/03/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	860	5.00	mg/L	1	B4E0222	KRM	05/03/2024	05/06/2024	
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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Markus 01

**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 B4E0143 - EPA 5030B (Water)**

**Blank (B4E0143-BLK1)**

Prepared: 05/01/2024 Analyzed: 05/03/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	96.0		70-130			
Surrogate: Toluene-d8	63		"	62.5	101		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

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Chelsea Veryter

Project Number: [none]

Project: Chevron - Markus 01

**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 B4E0143 - EPA 5030B (Water)**

**LCS (B4E0143-BS1)**

Prepared: 05/01/2024 Analyzed: 05/03/2024

1,2,4-Trimethylbenzene	55.5	2.00	ug/L	50.0		111	70-130			
1,3,5-Trimethylbenzene	56.8	2.00	"	50.0		114	70-130			
Benzene	56.4	1.00	"	50.0		113	70-130			
Ethylbenzene	50.2	1.00	"	50.0		100	70-130			
m,p-Xylene	97.1	2.00	"	100		97.1	70-130			
Naphthalene	46.8	2.00	"	50.0		93.6	70-130			
o-Xylene	48.1	1.00	"	50.0		96.3	70-130			
Toluene	47.0	1.00	"	50.0		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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**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 B4E0143 - EPA 5030B (Water)**

<b>Matrix Spike (B4E0143-MS1)</b>	<b>Source: Y404764-05</b>			<b>Prepared: 05/01/2024 Analyzed: 05/03/2024</b>						
1,2,4-Trimethylbenzene	59.2	2.00	ug/L	50.0	ND	118	70-130			
1,3,5-Trimethylbenzene	60.8	2.00	"	50.0	ND	122	70-130			
Benzene	59.0	1.00	"	50.0	ND	118	70-130			
Ethylbenzene	58.7	1.00	"	50.0	ND	117	70-130			
m,p-Xylene	115	2.00	"	100	ND	115	70-130			
Naphthalene	42.7	2.00	"	50.0	0.330	84.7	70-130			
o-Xylene	56.9	1.00	"	50.0	ND	114	70-130			
Toluene	52.0	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.7	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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**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 B4E0143 - EPA 5030B (Water)**

Matrix Spike Dup (B4E0143-MSD1)	Source: Y404764-05			Prepared: 05/01/2024 Analyzed: 05/03/2024						
1,2,4-Trimethylbenzene	59.2	2.00	ug/L	50.0	ND	118	70-130	0.0676	20	
1,3,5-Trimethylbenzene	60.5	2.00	"	50.0	ND	121	70-130	0.528	20	
Benzene	56.9	1.00	"	50.0	ND	114	70-130	3.78	20	
Ethylbenzene	54.2	1.00	"	50.0	ND	108	70-130	7.96	20	
m,p-Xylene	108	2.00	"	100	ND	108	70-130	6.68	20	
Naphthalene	47.8	2.00	"	50.0	0.330	95.0	70-130	11.3	20	
o-Xylene	53.2	1.00	"	50.0	ND	106	70-130	6.83	20	
Toluene	50.3	1.00	"	50.0	ND	101	70-130	3.26	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

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**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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**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 B4E0122 - Filter .45um non acidified**

**Blank (B4E0122-BLK1)**

Prepared: 05/01/2024 Analyzed: 05/02/2024

Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							

**LCS (B4E0122-BS1)**

Prepared: 05/01/2024 Analyzed: 05/02/2024

Chloride	4.11	0.250	mg/L	4.00		103	90-110			
Sulfate	4.03	0.250	"	4.00		101	90-110			

**Matrix Spike (B4E0122-MS1)**

**Source: Y405005-01**

Prepared: 05/01/2024 Analyzed: 05/02/2024

Chloride	1120		mg/L	500	652	93.8	90-110			
Sulfate	1670		"	500	1230	89.3	90-110			QM-07

**Matrix Spike Dup (B4E0122-MSD1)**

**Source: Y405005-01**

Prepared: 05/01/2024 Analyzed: 05/02/2024

Chloride	1100		mg/L	500	652	88.8	90-110	2.24	5	QM-07
Sulfate	1640		"	500	1230	82.5	90-110	2.07	5	QM-07

**Batch B4E0222 - NO PREP**

**Blank (B4E0222-BLK1)**

Prepared: 05/03/2024 Analyzed: 05/06/2024

Total Dissolved Solids	ND	5.00	mg/L							
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**LCS (B4E0222-BS1)**

Prepared: 05/03/2024 Analyzed: 05/06/2024

Total Dissolved Solids	1030	5.00	mg/L	1070		96.1	90-110			
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**Duplicate (B4E0222-DUP1)**

**Source: Y405005-01**

Prepared: 05/03/2024 Analyzed: 05/06/2024

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

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Chelsea Veryter

Project Number: [none]

Project: Chevron - Markus 01

**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 B4E0222 - NO PREP**

Total Dissolved Solids	2580	5.00	mg/L		2630			2.15	10	
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### Notes and Definitions

U Sample is Non-Detect.

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 at a wet weight basis.

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