



Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

October 14, 2024

**Project Name - Chevron - Hagemeister USX
AA07-01**

Project Number - [none]

Attached are your analytical results for Chevron - Hagemeister USX AA07-01 received by Origins Laboratory September 09, 2024. This project is associated with Origins project number E409219-02.

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 - Hagemeister USX AA07-01

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLR01@4	E409219-02	Soil	September 9, 2024 11:05	09/09/2024 17:20
WH01-N@4	E409219-03	Soil	September 9, 2024 11:10	09/09/2024 17:20

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 - Hagemeister USX AA07-01



ORIGINS WORK ORDER #
E409219

Page 1 of 1

Client: Entrada
 Project Manager: Chelsea Veryser
 Project Name: Hagemeister USX AA07-01
 Project Number: _____
 Key: _____

Telephone Number: 303.311.8703
 Collected By: Jen Blyne
 Email Address: Entrada Distribution, c/o B&B 400 2700 E. 1st Ave. Denver, CO 80202
 Project Billing Info: Bill to Chevron (usx, s, i, l) = liquid
 W=Water
 GW=Groundwater
 SW=Surface Water
 MW=Waste Water

S=soil | SO=soil | O=oil | A=Air | G=Gas | UWP=Impress | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix Preservation	Analysis		Comments
1	WH0100	9/9/24	1100	2	5	UWP			Hold
2	FLR0101		1105						
3	WH0102		1110						
4	WH0103		1115						Hold
5	WH0104		1120						Hold
6									
7									
8									
9									
10									

Requisitioned By: WK Date: 9/9/24 Time: 530
 Received By: WK Date: 09/09/24 Time: 1720
 Requisitioned By: WK Date: 09/09/24 Time: 1720
 Received By: SKD Date: 9/9/24 Time: 1720

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received - 45 Received On Ice? Yes No
 For Lab Sample Receiving Only: Standard SAME DAY 24 Hr 48 Hr 72 Hr

Origins Laboratory

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

Chelsea Verysen
Project Number: [none]
Project: Chevron - Hagemeister USX AA07-01

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E409219 Client: Entrada
 Checklist Completed by: JH Client Project ID: Hagemeister
 Date/Time completed: 9/19/12 Shipped Via: NO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other:
 Cooler Number/Temperature: 14.5 °C / °C / °C (Describe)
 Thermometer ID: 1005

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) JH

9/11/12
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 - Hagemeister USX AA07-01

FLR01@4

9/9/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E409219-02 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.690		0.0995	mg/L	1	B411108	09/11/2024	09/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411123	09/11/2024	09/12/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	105 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411024	09/10/2024	09/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	104 %		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 - Hagemeister USX AA07-01

FLR01@4

9/9/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409219-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	102 %	70-130				B41102 4	09/10/2024	09/11/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.84	0.499	meq/L	10	[CALC]		09/11/2024	09/12/2024	
Magnesium	18.7	0.823	"	"	"	"	"	"	
Sodium	86.4	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B411026		09/10/2024	09/11/2024	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
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

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 - Hagemeister USX AA07-01

FLR01@4

9/9/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409219-02 (Soil)

PAH by EPA 8270E extracted via 3580A

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4I1026	09/10/2024	09/11/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	85.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	112 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.0 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.29			pH Units	1	B4I1114	09/11/2024	09/12/2024	
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SAR by 20B Saturated Paste

SAR	25.2		0.0100	SAR	1	B4I1111	09/11/2024	09/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.84		0.00500	mmhos/cm	1	B4I1114	09/11/2024	09/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.56		0.247	mg/kg	10	B4I1031	09/10/2024	09/14/2024	
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Origins Laboratory



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

Chelsea Verysen
Project Number: [none]
Project: Chevron - Hagemeister USX AA07-01

FLR01@4

9/9/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409219-02 (Soil)

Table 915 metals by EPA 6020B

Barium	38.9		8.51	mg/kg	10	B411031	09/10/2024	09/14/2024	
Cadmium	ND		0.0851	"	"	"	"	"	
Copper	ND		8.51	"	"	"	"	"	
Lead	4.45		0.851	"	"	"	"	"	
Nickel	4.53		0.851	"	"	"	"	"	
Selenium	ND		0.221	"	"	"	"	"	
Silver	ND		0.0851	"	"	"	"	"	
Zinc	ND		31.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.137	0.342	mg/kg dry	1	2679407	10/02/2024	10/08/2024	U
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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 - Hagemeister USX AA07-01

WH01-N@4

9/9/2024 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409219-03 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.804		0.101	mg/L	1	B411108	09/11/2024	09/12/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B411123	09/11/2024	09/12/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	102 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411024	09/10/2024	09/11/2024	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	0.302		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	

Origins Laboratory



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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - Hagemeister USX AA07-01

WH01-N@4

9/9/2024 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409219-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	105 %	70-130		B41102 4	09/10/2024	09/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.2	0.499	meq/L	10	[CALC]	09/11/2024	09/12/2024
Magnesium	15.7	0.823	"	"	"	"	"
Sodium	75.7	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B411026	09/10/2024	09/11/2024	
2-Methylnaphthalene	0.006	0.002	"	"	"	"	"	
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
Fluorene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory



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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - Hagemeister USX AA07-01

WH01-N@4

9/9/2024 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409219-03 (Soil)

PAH by EPA 8270E extracted via 3580A

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4I1026	09/10/2024	09/11/2024	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	84.5 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	98.2 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.4 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.22	pH Units	1	B4I1114	09/11/2024	09/12/2024
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SAR by 20B Saturated Paste

SAR	21.0	0.0100	SAR	1	B4I1111	09/11/2024	09/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.28	0.00500	mmhos/cm	1	B4I1114	09/11/2024	09/12/2024
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Table 915 metals by EPA 6020B

Arsenic	3.20	0.256	mg/kg	10	B4I1031	09/10/2024	09/14/2024
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Origins Laboratory



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

Chelsea Verysen
Project Number: [none]
Project: Chevron - Hagemeister USX AA07-01

WH01-N@4

9/9/2024 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409219-03 (Soil)**

Table 915 metals by EPA 6020B

Barium	44.1		8.82	mg/kg	10	B411031	09/10/2024	09/14/2024	
Cadmium	0.0935		0.0882	"	"	"	"	"	
Copper	ND		8.82	"	"	"	"	"	
Lead	5.90		0.882	"	"	"	"	"	
Nickel	5.28		0.882	"	"	"	"	"	
Selenium	ND		0.229	"	"	"	"	"	
Silver	ND		0.0882	"	"	"	"	"	
Zinc	ND		32.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.130	0.325	mg/kg dry	1	2679407	10/02/2024	10/08/2024	U
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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 - Hagemeister USX AA07-01

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 B411024 - EPA 5030 (soil)

Blank (B411024-BLK1)

Prepared: 09/10/2024 Analyzed: 09/10/2024

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	104		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		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 - Hagemeister USX AA07-01

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 B4I1024 - EPA 5030 (soil)

LCS (B4I1024-BS1)

Prepared: 09/10/2024 Analyzed: 09/10/2024

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.223	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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 - Hagemeister USX AA07-01

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 B411024 - EPA 5030 (soil)

Matrix Spike (B411024-MS1)	Source: E409186-01			Prepared: 09/10/2024 Analyzed: 09/10/2024						
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	0.0712	34.6	70-130			QM-07
1,3,5-Trimethylbenzene	0.0974	0.00200	"	0.100	0.0210	76.4	70-130			
Benzene	0.0868	0.00200	"	0.100	ND	86.8	70-130			
Ethylbenzene	0.0980	0.00200	"	0.100	0.00896	89.0	70-130			
Naphthalene	0.0873	0.00380	"	0.100	0.0154	71.9	70-130			
Toluene	0.0888	0.00200	"	0.100	0.000620	88.1	70-130			
o-Xylene	0.0915	0.00200	"	0.100	0.00288	88.6	70-130			
m,p-Xylene	0.197	0.00400	"	0.200	0.0331	82.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	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 - Hagemeister USX AA07-01

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 B411024 - EPA 5030 (soil)

Matrix Spike Dup (B411024-MSD1)	Source: E409186-01			Prepared: 09/10/2024 Analyzed: 09/10/2024						
1,2,4-Trimethylbenzene	0.0904	0.00200	mg/kg	0.100	0.0712	19.2	70-130	15.7	20	QM-07
1,3,5-Trimethylbenzene	0.0799	0.00200	"	0.100	0.0210	58.9	70-130	19.8	20	QM-07
Benzene	0.0708	0.00200	"	0.100	ND	70.8	70-130	20.4	20	QR-02
Ethylbenzene	0.0794	0.00200	"	0.100	0.00896	70.4	70-130	21.0	20	QR-02
Naphthalene	0.0743	0.00380	"	0.100	0.0154	58.9	70-130	16.1	20	QM-07
Toluene	0.0721	0.00200	"	0.100	0.000620	71.5	70-130	20.7	20	QR-02
o-Xylene	0.0740	0.00200	"	0.100	0.00288	71.1	70-130	21.1	20	QR-02
m,p-Xylene	0.159	0.00400	"	0.200	0.0331	63.1	70-130	21.4	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Hagemeister USX AA07-01

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
Batch B411123 - EPA 3550B										
Blank (B411123-BLK1)										
					Prepared: 09/11/2024 Analyzed: 09/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	28		"	24.9		111	50-150			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Hagemeister USX AA07-01

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 B4I1123 - EPA 3550B

LCS (B4I1123-BS1)

Prepared: 09/11/2024 Analyzed: 09/11/2024

Diesel (C10-C28)	934	50.0	mg/kg	1000		93.4	70-130			
Residual Range Organics (C28-C40)	989	200	"	1000		98.9	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Hagemeister USX AA07-01

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 B4I1123 - EPA 3550B

Matrix Spike (B4I1123-MS1)	Source: E409186-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
Diesel (C10-C28)	834	50.0	mg/kg	1000	ND	83.4	70-130			
Residual Range Organics (C28-C40)	884	200	"	1000	ND	88.4	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Hagemeister USX AA07-01

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 B411123 - EPA 3550B

Matrix Spike Dup (B411123-MSD1)	Source: E409186-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
Diesel (C10-C28)	920	50.0	mg/kg	1000	ND	92.0	70-130	9.77	35	
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130	10.2	35	
<i>Surrogate: o-Terphenyl</i>	53		"	49.8		107	50-150			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Hagemeister USX AA07-01

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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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 B4I1031 - EPA 3050B

Blank (B4I1031-BLK1)

Prepared: 09/10/2024 Analyzed: 09/14/2024

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 (B4I1031-BS1)

Prepared: 09/10/2024 Analyzed: 09/14/2024

Arsenic	5.13	0.290	mg/kg	5.00		103	80-120			
Barium	443	10.0	"	500		88.5	80-120			
Cadmium	4.99	0.100	"	5.00		99.8	80-120			
Copper	50.9	10.0	"	50.0		102	80-120			
Lead	4.90	1.00	"	5.00		97.9	80-120			
Nickel	5.04	1.00	"	5.00		101	80-120			
Selenium	4.48	0.260	"	5.00		89.7	80-120			
Silver	5.07	0.100	"	5.00		101	80-120			
Zinc	48.5	37.0	"	50.0		97.0	80-120			

Matrix Spike (B4I1031-MS1)

Source: E409221-01

Prepared: 09/10/2024 Analyzed: 09/14/2024

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Hagemeister USX AA07-01

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 B411031 - EPA 3050B

Matrix Spike (B411031-MS1)		Source: E409221-01			Prepared: 09/10/2024 Analyzed: 09/14/2024					
Arsenic	6.61	0.244	mg/kg	4.21	1.93	111	75-125			
Barium	433	8.42	"	421	131	71.5	75-125			QM-07
Cadmium	4.52	0.0842	"	4.21	0.0805	105	75-125			
Copper	46.8	8.42	"	42.1	3.71	102	75-125			
Lead	9.59	0.842	"	4.21	8.52	25.4	75-125			QM-07
Nickel	8.42	0.842	"	4.21	4.04	104	75-125			
Selenium	4.12	0.219	"	4.21	0.0634	96.3	75-125			
Silver	4.50	0.0842	"	4.21	0.0137	107	75-125			
Zinc	58.7	31.2	"	42.1	15.8	102	75-125			

Matrix Spike Dup (B411031-MSD1)		Source: E409221-01			Prepared: 09/10/2024 Analyzed: 09/14/2024					
Arsenic	6.79	0.266	mg/kg	4.59	1.93	106	75-125	2.68	20	
Barium	471	9.17	"	459	131	74.0	75-125	8.44	20	QM-07
Cadmium	4.76	0.0917	"	4.59	0.0805	102	75-125	5.15	20	
Copper	50.0	9.17	"	45.9	3.71	101	75-125	6.63	20	
Lead	9.62	0.917	"	4.59	8.52	24.0	75-125	0.336	20	QM-07
Nickel	8.59	0.917	"	4.59	4.04	99.2	75-125	2.06	20	
Selenium	4.42	0.239	"	4.59	0.0634	94.9	75-125	7.03	20	
Silver	4.79	0.0917	"	4.59	0.0137	104	75-125	6.21	20	
Zinc	62.2	33.9	"	45.9	15.8	101	75-125	5.80	20	

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Hagemeister USX AA07-01

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 B411026 - EPA 3580

Blank (B411026-BLK1)

Prepared: 09/10/2024 Analyzed: 09/10/2024

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	210		ug/kg	200	104	60-130				
Surrogate: Anthracene-d10	170		"	200	86.0	60-130				
Surrogate: Pyrene-d10	210		"	200	103	60-130				
Surrogate: Benzo (a) pyrene-d12	190		"	200	93.1	60-130				

LCS (B411026-BS1)

Prepared: 09/10/2024 Analyzed: 09/10/2024

1-Methylnaphthalene	0.174	0.002	mg/kg	0.200	86.8	70-130				
2-Methylnaphthalene	0.177	0.002	"	0.200	88.5	70-130				
Acenaphthene	0.184	0.020	"	0.200	92.1	70-130				
Anthracene	0.171	0.020	"	0.200	85.4	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 - Hagemeister USX AA07-01

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 B411026 - EPA 3580

LCS (B411026-BS1)

Prepared: 09/10/2024 Analyzed: 09/10/2024

Benzo (a) anthracene	0.164	0.005	mg/kg	0.200		82.2	70-130			
Benzo (a) pyrene	0.168	0.020	"	0.200		83.8	70-130			
Benzo (b) fluoranthene	0.216	0.020	"	0.200		108	70-130			
Benzo (g,h,i) perylene	0.182	0.020	"	0.200		90.8	70-130			
Benzo (k) fluoranthene	0.178	0.020	"	0.200		89.1	70-130			
Chrysene	0.168	0.020	"	0.200		83.8	70-130			
Dibenz (a,h) anthracene	0.191	0.020	"	0.200		95.3	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.6	70-130			
Fluorene	0.181	0.020	"	0.200		90.7	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		91.1	70-130			
Naphthalene	0.184	0.002	"	0.200		92.1	70-130			
Phenanthrene	0.166	0.020	"	0.200		82.9	70-130			
Pyrene	0.168	0.020	"	0.200		84.1	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	170		"	200		87.4	60-130			
Surrogate: Pyrene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B411026-MS1)

Source: E409173-05

Prepared: 09/10/2024 Analyzed: 09/10/2024

1-Methylnaphthalene	0.256	0.002	mg/kg	0.200	0.218	18.5	70-130			QM-07
2-Methylnaphthalene	0.211	0.002	"	0.200	0.016	97.5	70-130			
Acenaphthene	0.272	0.020	"	0.200	0.020	126	70-130			
Anthracene	0.205	0.020	"	0.200	0.028	88.4	70-130			
Benzo (a) anthracene	0.198	0.005	"	0.200	0.005	96.7	70-130			
Benzo (a) pyrene	0.217	0.020	"	0.200	0.007	105	70-130			
Benzo (b) fluoranthene	0.291	0.020	"	0.200	0.009	141	70-130			QM-07
Benzo (g,h,i) perylene	0.231	0.020	"	0.200	0.007	112	70-130			

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330 Grand Ave. Unit C
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Chelsea Verysen
Project Number: [none]
Project: Chevron - Hagemeister USX AA07-01

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 B411026 - EPA 3580

Matrix Spike (B411026-MS1)	Source: E409173-05			Prepared: 09/10/2024 Analyzed: 09/10/2024						
Benzo (k) fluoranthene	0.188	0.020	mg/kg	0.200	0.006	90.9	70-130			
Chrysene	0.219	0.020	"	0.200	0.011	104	70-130			
Dibenz (a,h) anthracene	0.233	0.020	"	0.200	0.009	112	70-130			
Fluoranthene	0.242	0.020	"	0.200	0.002	120	70-130			
Fluorene	0.270	0.020	"	0.200	0.168	51.1	70-130			QM-07
Indeno (1,2,3-cd) pyrene	0.231	0.020	"	0.200	0.009	111	70-130			
Naphthalene	0.209	0.002	"	0.200	ND	105	70-130			
Phenanthrene	0.265	0.020	"	0.200	0.160	52.5	70-130			QM-07
Pyrene	0.239	0.020	"	0.200	0.012	114	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		94.7	60-130			
Surrogate: Pyrene-d10	190		"	200		96.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.2	60-130			

Matrix Spike Dup (B411026-MSD1)	Source: E409173-05			Prepared: 09/10/2024 Analyzed: 09/10/2024						
1-Methylnaphthalene	0.252	0.002	mg/kg	0.200	0.218	17.0	70-130	1.22	20	QM-07
2-Methylnaphthalene	0.215	0.002	"	0.200	0.016	99.4	70-130	1.73	20	
Acenaphthene	0.275	0.020	"	0.200	0.020	127	70-130	1.09	20	
Anthracene	0.194	0.020	"	0.200	0.028	83.0	70-130	5.48	20	
Benzo (a) anthracene	0.187	0.005	"	0.200	0.005	91.4	70-130	5.58	20	
Benzo (a) pyrene	0.214	0.020	"	0.200	0.007	103	70-130	1.56	20	
Benzo (b) fluoranthene	0.276	0.020	"	0.200	0.009	133	70-130	5.17	20	QM-07
Benzo (g,h,i) perylene	0.238	0.020	"	0.200	0.007	116	70-130	3.14	20	
Benzo (k) fluoranthene	0.213	0.020	"	0.200	0.006	103	70-130	12.4	20	
Chrysene	0.210	0.020	"	0.200	0.011	99.2	70-130	4.31	20	
Dibenz (a,h) anthracene	0.250	0.020	"	0.200	0.009	120	70-130	6.81	20	
Fluoranthene	0.226	0.020	"	0.200	0.002	112	70-130	6.61	20	

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Entrada Consulting Group
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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Hagemeister USX AA07-01

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 B411026 - EPA 3580

Matrix Spike Dup (B411026-MSD1)	Source: E409173-05			Prepared: 09/10/2024 Analyzed: 09/10/2024						
Fluorene	0.271	0.020	mg/kg	0.200	0.168	51.5	70-130	0.264	20	QM-07
Indeno (1,2,3-cd) pyrene	0.233	0.020	"	0.200	0.009	112	70-130	1.12	20	
Naphthalene	0.213	0.002	"	0.200	ND	107	70-130	1.75	20	
Phenanthrene	0.256	0.020	"	0.200	0.160	47.8	70-130	3.62	20	QM-07
Pyrene	0.209	0.020	"	0.200	0.012	98.9	70-130	13.1	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	180		"	200		91.3	60-130			
Surrogate: Pyrene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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Entrada Consulting Group
 330 Grand Ave. Unit C
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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Hagemeister USX AA07-01

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4I1108 - DTPA Sorbitol Preparation										
Blank (B4I1108-BLK1)					Prepared: 09/11/2024 Analyzed: 09/12/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4I1108-DUP1)		Source: E409217-03			Prepared: 09/11/2024 Analyzed: 09/12/2024					
Boron	0.0409	0.0993	mg/L		0.0410			0.261	50	
Batch B4I1111 - Saturated Paste Metals										
Blank (B4I1111-BLK1)					Prepared: 09/11/2024 Analyzed: 09/12/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4I1111-DUP1)		Source: E409217-04			Prepared: 09/11/2024 Analyzed: 09/12/2024					
Calcium PPM	231	10.0	mg/L		210			9.50	50	
SAR	ND	0.0100	SAR		ND				200	
Magnesium PPM	278	10.0	mg/L		281			1.03	50	
Sodium PPM	1360	10.0	"		1330			2.59	50	

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 - Hagemeister USX AA07-01

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 B4I1114 - Saturated Paste pH/EC

Blank (B4I1114-BLK1)

Prepared: 09/11/2024 Analyzed: 09/12/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4I1114-DUP1)

Source: E409217-04

Prepared: 09/11/2024 Analyzed: 09/12/2024

Specific Conductance (EC)	7.04	0.00500	mmhos/cm		6.88			2.24	25	
pH	8.18		pH Units		8.22			0.488	25	

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hagemeister USX AA07-01

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 2679407 - SW846 3060A										
BLANK (1205869469-BLK)					Prepared: 10/02/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	ND	0.283	mg/kg				-			U
LCS (1205869470-BKS)					Prepared: 10/02/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	3.22	0.324	mg/kg	3.24		99.5	80-120			
DUP (1205869471 D)					Source: 685045001 Prepared: 10/02/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	ND	0.299	mg/kg dry		<0.120		0-50	N/A	50	U
MS (1205869472 S)					Source: 685045001 Prepared: 10/02/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	2.26	0.235	mg/kg dry	2.35	<0.0941	93.2	75-125			
DUP (1205869473 D)					Source: 685045002 Prepared: 10/02/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	ND	0.326	mg/kg dry		<0.130		0-50	N/A	50	U
MS (1205869474 S)					Source: 685045002 Prepared: 10/02/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	3.32	0.345	mg/kg dry	3.45	<0.138	95.1	75-125			
ILCS (1205869475-ILCS)					Prepared: 10/02/2024 Analyzed: 10/08/2024					
Hexavalent Chromium	5.20	0.252	mg/kg	5.21		99.6	80-120			

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Hagemeister USX AA07-01

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory



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