



**Entrada Consulting Group**

**Chelsea Veryser**

**330 Grand Ave. Unit C**

**Grand Junction CO 81501**

**October 31, 2024**

**Project Name - Chevron - Shable USX AB11-03**

**Project Number - [none]**

Attached are your analytical results for Chevron - Shable USX AB11-03 received by Origins Laboratory September 13, 2024. This project is associated with Origins project number E409422-02.

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 - Shable USX AB11-03

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01-N@4	E409422-02	Soil	September 13, 2024 12:05	09/13/2024 17:20

Chrome VI cancelled and cannot be reported due to a lab error. Client notified via email on 10/31/2024. JAB

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 - Shable USX AB11-03

**ORIGINS**  
 LABORATORY INC  
 Client: Entrada  
 Project Manager: Chelsea Verysen  
 Project Name: Shable USX AB11-03  
 Key: W=Water  
 Project Number: 6409422  
 ORIGINS WORK ORDER #  
 Page 1 of 1

Telephone Number: 970-319-8103  
 Email Address: Entrada@Entrada.com  
 Invoice Billing Info: Bill to Chevron (not same)  
 Collected By: Fran Lopez  
 S=Soil | SO=Soil | O=Oil | A=Air | G=Gas | UNP=Unpres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
						W	L	
1	W/Hol. 06	9/13/24	1200	2	5. VMP	12	15	Kold
2	W/Hol. 11 04		1205	1				X
3	W/Hol. 5 04		1210	1				Fold
4	W/Hol. 11 04		1215	1				Kold
5	W/Hol. 5 04		1220	1				Kold
6								
7								
8								
9								
10								

Requested By: [Signature] Date: 9/13/24 Time: 133 Received By: WK Date: 09/18/24 Time: 16:05

Relinquished By: [Signature] Date: 09/13/24 Time: 1720 Received By: [Signature] Date: 9/13/24 Time: 1720

Turnaround Time  
 SAME DAY  
 24 Hr  
 48 Hr  
 72 Hr

Standard  Non-Standard

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received - 02 Received On Ice?  Yes  No

Origins Laboratory  


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330 Grand Ave. Unit C  
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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Shable USX AB11-03

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

**Sample Receipt Checklist**

Origins Work Order: E409422 Client: Entrada  
Client Project ID: Shable USX

Checklist Completed by: JHD Shipped Via: HO  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 9/13/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 102 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
<small>if samples require cooling, was the temperature between 0°C to ≤ 6°C<sup>(1)</sup>?</small>	/			
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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +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.

Reviewed by (Project Manager) JHD

9/17/24  
Date/Time Reviewed

Origins Laboratory



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330 Grand Ave. Unit C  
Grand Junction CO 81501

Chelsea Verysen  
Project Number: [none]  
Project: Chevron - Shable USX AB11-03

**WH01-N@4**

**9/13/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E409422-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	<b>0.437</b>		0.101	mg/L	1	B411715	09/17/2024	09/18/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	<b>1780</b>		25.0	mg/kg	1	B411641	09/16/2024	09/20/2024	
Residual Range Organics (C28-C40)	<b>1220</b>		100	"	"	"	"	"	

Surrogate: o-Terphenyl	136 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	<b>0.00266</b>		0.00200	mg/kg	1	B411839	09/18/2024	09/20/2024	
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	<b>57.2</b>		5.00	"	25	"	"	09/23/2024	

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	09/20/2024	
Surrogate: Toluene-d8	97.9 %		70-130			"	"	"	

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 Project Number: [none]  
 Project: Chevron - Shable USX AB11-03

**WH01-N@4**

**9/13/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409422-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	101 %	70-130		B41183 9	09/18/2024	09/20/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.21	0.499	meq/L	10	[CALC]	09/17/2024	09/18/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	14.8	0.435	"	"	"	"	"

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	0.133	0.002	mg/kg	1	B411656	09/16/2024	09/20/2024
2-Methylnaphthalene	0.068	0.002	"	"	"	"	"
Acenaphthene	0.112	0.020	"	"	"	"	"
Anthracene	0.044	0.020	"	"	"	"	"
Benzo (a) anthracene	0.008	0.005	"	"	"	"	"
Benzo (a) pyrene	ND	0.020	"	"	"	"	09/20/2024 U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	" U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	" U
Chrysene	0.074	0.020	"	"	"	"	09/20/2024
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	09/20/2024 U
Fluoranthene	ND	0.020	"	"	"	"	09/20/2024 U
Fluorene	0.136	0.020	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	09/20/2024 U

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**WH01-N@4**

**9/13/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E409422-02 (Soil)**

**PAH by EPA 8270E extracted via 3580A**

Naphthalene	ND		0.002	mg/kg	1	B411656	09/16/2024	09/20/2024	U
Pyrene	<b>0.043</b>		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	94.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	108 %		60-130			"	"	"	
Surrogate: Pyrene-d10	84.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.1 %		60-130			"	"	09/20/2024	

**pH in Soil by 9045D**

pH	<b>7.87</b>			pH Units	1	B411722	09/17/2024	09/20/2024	
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**SAR by 20B Saturated Paste**

SAR	<b>14.7</b>		0.0100	SAR	1	B411708	09/17/2024	09/18/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.720</b>		0.00500	mmhos/cm	1	B412726	09/27/2024	09/30/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	<b>5.29</b>		0.264	mg/kg	10	B411855	09/18/2024	09/21/2024	
Barium	<b>109</b>		9.09	"	"	"	"	"	
Cadmium	<b>0.295</b>		0.0909	"	"	"	"	"	

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**WH01-N@4**

**9/13/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E409422-02 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	47.3		9.09	mg/kg	10	B411855	09/18/2024	09/21/2024	
Lead	77.9		0.909	"	"	"	"	"	
Nickel	12.7		0.909	"	"	"	"	"	
Selenium	0.374		0.236	"	"	"	"	"	
Silver	ND		0.0909	"	"	"	"	"	
Zinc	44.3		33.6	"	"	"	"	"	

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Chelsea Veryser

Project Number: [none]

Project: Chevron - Shable USX AB11-03

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
<b>Batch B411641 - EPA 3550B</b>										
<b>Blank (B411641-BLK1)</b>										
					Prepared: 09/16/2024 Analyzed: 09/20/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.1	50-150			

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 Project: Chevron - Shable USX AB11-03

**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 B4I1641 - EPA 3550B**

**LCS (B4I1641-BS1)**

Prepared: 09/16/2024 Analyzed: 09/20/2024

Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	70-130			
Residual Range Organics (C28-C40)	1280	200	"	1000		128	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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**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 B4I1641 - EPA 3550B**

<b>Matrix Spike (B4I1641-MS1)</b>	<b>Source: E409406-01</b>			<b>Prepared: 09/16/2024 Analyzed: 09/20/2024</b>						
Diesel (C10-C28)	1150	50.0	mg/kg	1000	ND	115	70-130			
Residual Range Organics (C28-C40)	1290	200	"	1000	ND	129	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

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**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
<b>Batch B411641 - EPA 3550B</b>										
<b>Matrix Spike Dup (B411641-MSD1)</b>					<b>Source: E409406-01</b>					Prepared: 09/16/2024 Analyzed: 09/20/2024
Diesel (C10-C28)	1130	50.0	mg/kg	1000	ND	113	70-130	1.61	35	
Residual Range Organics (C28-C40)	1260	200	"	1000	ND	126	70-130	2.10	35	
Surrogate: o-Terphenyl	45		"	49.8		91.2	50-150			

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Chelsea Veryser  
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**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 B411839 - EPA 5030 (soil)**

**Blank (B411839-BLK1)**

Prepared: 09/18/2024 Analyzed: 09/20/2024

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	0.12		"	0.125	96.4		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.7		70-130			

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 Project Number: [none]  
 Project: Chevron - Shable USX AB11-03

**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 B411839 - EPA 5030 (soil)**

**LCS (B411839-BS1)**

Prepared: 09/18/2024 Analyzed: 09/20/2024

1,2,4-Trimethylbenzene	0.0911	0.00200	mg/kg	0.100		91.1	70-130			
1,3,5-Trimethylbenzene	0.0905	0.00200	"	0.100		90.5	70-130			
Benzene	0.0874	0.00200	"	0.100		87.4	70-130			
Ethylbenzene	0.0886	0.00200	"	0.100		88.6	70-130			
Naphthalene	0.0858	0.00380	"	0.100		85.8	70-130			
Toluene	0.0925	0.00200	"	0.100		92.5	70-130			
o-Xylene	0.0881	0.00200	"	0.100		88.1	70-130			
m,p-Xylene	0.177	0.00400	"	0.200		88.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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Chelsea Veryser  
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**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 B411839 - EPA 5030 (soil)**

<b>Matrix Spike (B411839-MS1)</b>	<b>Source: E409421-02</b>			<b>Prepared: 09/18/2024 Analyzed: 09/20/2024</b>						
1,2,4-Trimethylbenzene	0.0888	0.00200	mg/kg	0.100	ND	88.8	70-130			
1,3,5-Trimethylbenzene	0.0874	0.00200	"	0.100	ND	87.4	70-130			
Benzene	0.0856	0.00200	"	0.100	ND	85.6	70-130			
Ethylbenzene	0.0882	0.00200	"	0.100	ND	88.2	70-130			
Naphthalene	0.0848	0.00380	"	0.100	ND	84.8	70-130			
Toluene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
o-Xylene	0.0875	0.00200	"	0.100	ND	87.5	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Shable USX AB11-03

## 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 B411839 - EPA 5030 (soil)**

Matrix Spike Dup (B411839-MSD1)	Source: E409421-02			Prepared: 09/18/2024 Analyzed: 09/20/2024						
1,2,4-Trimethylbenzene	0.0893	0.00200	mg/kg	0.100	ND	89.3	70-130	0.606	20	
1,3,5-Trimethylbenzene	0.0880	0.00200	"	0.100	ND	88.0	70-130	0.707	20	
Benzene	0.0886	0.00200	"	0.100	ND	88.6	70-130	3.47	20	
Ethylbenzene	0.0883	0.00200	"	0.100	ND	88.3	70-130	0.113	20	
Naphthalene	0.0827	0.00380	"	0.100	ND	82.7	70-130	2.48	20	
Toluene	0.0921	0.00200	"	0.100	ND	92.1	70-130	3.31	20	
o-Xylene	0.0880	0.00200	"	0.100	ND	88.0	70-130	0.615	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.0	70-130	0.330	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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 Grand Junction CO 81501

Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Shable USX AB11-03

**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 B4I1855 - EPA 3050B**

**Blank (B4I1855-BLK1)**

Prepared: 09/18/2024 Analyzed: 09/21/2024

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 (B4I1855-BS1)**

Prepared: 09/18/2024 Analyzed: 09/21/2024

Arsenic	4.81	0.290	mg/kg	5.00		96.3	80-120			
Barium	461	10.0	"	500		92.1	80-120			
Cadmium	5.00	0.100	"	5.00		100	80-120			
Copper	49.7	10.0	"	50.0		99.4	80-120			
Lead	4.59	1.00	"	5.00		91.8	80-120			
Nickel	4.89	1.00	"	5.00		97.8	80-120			
Selenium	4.67	0.260	"	5.00		93.3	80-120			
Silver	5.08	0.100	"	5.00		102	80-120			
Zinc	48.4	37.0	"	50.0		96.8	80-120			

**Matrix Spike (B4I1855-MS1)**

**Source: E409515-01**

Prepared: 09/18/2024 Analyzed: 09/21/2024

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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Shable USX AB11-03

**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 B411855 - EPA 3050B**

<b>Matrix Spike (B411855-MS1)</b>		<b>Source: E409515-01</b>			<b>Prepared: 09/18/2024 Analyzed: 09/21/2024</b>					
Arsenic	6.98	0.280	mg/kg	4.83	2.24	98.4	75-125			
Barium	500	9.65	"	483	46.7	94.0	75-125			
Cadmium	4.66	0.0965	"	4.83	0.0830	94.9	75-125			
Copper	52.5	9.65	"	48.3	4.73	98.9	75-125			
Lead	9.70	0.965	"	4.83	4.27	112	75-125			
Nickel	11.5	0.965	"	4.83	6.18	111	75-125			
Selenium	4.53	0.251	"	4.83	0.0627	92.5	75-125			
Silver	4.75	0.0965	"	4.83	0.0168	98.1	75-125			
Zinc	68.9	35.7	"	48.3	21.4	98.5	75-125			

<b>Matrix Spike Dup (B411855-MSD1)</b>		<b>Source: E409515-01</b>			<b>Prepared: 09/18/2024 Analyzed: 09/21/2024</b>					
Arsenic	6.16	0.249	mg/kg	4.29	2.24	91.4	75-125	12.5	20	
Barium	436	8.59	"	429	46.7	90.6	75-125	13.8	20	
Cadmium	4.13	0.0859	"	4.29	0.0830	94.2	75-125	12.2	20	
Copper	44.8	8.59	"	42.9	4.73	93.4	75-125	15.7	20	
Lead	8.63	0.859	"	4.29	4.27	101	75-125	11.7	20	
Nickel	10.9	0.859	"	4.29	6.18	110	75-125	5.51	20	
Selenium	3.96	0.223	"	4.29	0.0627	90.8	75-125	13.4	20	
Silver	4.26	0.0859	"	4.29	0.0168	98.8	75-125	11.0	20	
Zinc	62.2	31.8	"	42.9	21.4	95.0	75-125	10.3	20	

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 Project: Chevron - Shable USX AB11-03

**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 B4I1656 - EPA 3580**

**Blank (B4I1656-BLK1)**

Prepared: 09/16/2024 Analyzed: 09/20/2024

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	98.7	60-130
Surrogate: Anthracene-d10	200		"	200	102	60-130
Surrogate: Pyrene-d10	190		"	200	97.0	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	103	60-130

**LCS (B4I1656-BS1)**

Prepared: 09/16/2024 Analyzed: 09/20/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	94.6	70-130
2-Methylnaphthalene	0.190	0.002	"	0.200	95.0	70-130
Acenaphthene	0.188	0.020	"	0.200	94.2	70-130
Anthracene	0.183	0.020	"	0.200	91.7	70-130

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Shable USX AB11-03

**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 B411656 - EPA 3580**

**LCS (B411656-BS1)**

Prepared: 09/16/2024 Analyzed: 09/20/2024

Benzo (a) anthracene	0.205	0.005	mg/kg	0.200		102	70-130			
Benzo (a) pyrene	0.193	0.020	"	0.200		96.5	70-130			
Benzo (b) fluoranthene	0.179	0.020	"	0.200		89.5	70-130			
Benzo (g,h,i) perylene	0.176	0.020	"	0.200		88.2	70-130			
Benzo (k) fluoranthene	0.169	0.020	"	0.200		84.6	70-130			
Chrysene	0.183	0.020	"	0.200		91.4	70-130			
Dibenz (a,h) anthracene	0.179	0.020	"	0.200		89.3	70-130			
Fluoranthene	0.201	0.020	"	0.200		100	70-130			
Fluorene	0.187	0.020	"	0.200		93.4	70-130			
Indeno (1,2,3-cd) pyrene	0.181	0.020	"	0.200		90.3	70-130			
Naphthalene	0.188	0.002	"	0.200		94.2	70-130			
Phenanthrene	0.189	0.020	"	0.200		94.6	70-130			
Pyrene	0.182	0.020	"	0.200		90.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	190		"	200		93.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

**Matrix Spike (B411656-MS1)**

**Source: E409380-01**

Prepared: 09/16/2024 Analyzed: 09/20/2024

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	0.0004	92.1	70-130			
2-Methylnaphthalene	0.183	0.002	"	0.200	ND	91.5	70-130			
Acenaphthene	0.176	0.020	"	0.200	ND	87.9	70-130			
Anthracene	0.183	0.020	"	0.200	0.002	90.6	70-130			
Benzo (a) anthracene	0.195	0.005	"	0.200	ND	97.3	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.4	70-130			
Benzo (b) fluoranthene	0.179	0.020	"	0.200	ND	89.3	70-130			
Benzo (g,h,i) perylene	0.174	0.020	"	0.200	ND	87.0	70-130			

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Shable USX AB11-03

## 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 B4I1656 - EPA 3580**

Matrix Spike (B4I1656-MS1)	Source: E409380-01			Prepared: 09/16/2024 Analyzed: 09/20/2024						
Benzo (k) fluoranthene	0.164	0.020	mg/kg	0.200	ND	82.0	70-130			
Chrysene	0.174	0.020	"	0.200	ND	87.2	70-130			
Dibenz (a,h) anthracene	0.180	0.020	"	0.200	ND	89.9	70-130			
Fluoranthene	0.198	0.020	"	0.200	ND	99.1	70-130			
Fluorene	0.179	0.020	"	0.200	ND	89.4	70-130			
Indeno (1,2,3-cd) pyrene	0.177	0.020	"	0.200	ND	88.6	70-130			
Naphthalene	0.177	0.002	"	0.200	ND	88.3	70-130			
Phenanthrene	0.179	0.020	"	0.200	ND	89.4	70-130			
Pyrene	0.176	0.020	"	0.200	ND	88.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

Matrix Spike Dup (B4I1656-MSD1)	Source: E409380-01			Prepared: 09/16/2024 Analyzed: 09/20/2024						
1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	0.0004	92.3	70-130	0.191	20	
2-Methylnaphthalene	0.185	0.002	"	0.200	ND	92.4	70-130	0.898	20	
Acenaphthene	0.186	0.020	"	0.200	ND	93.1	70-130	5.69	20	
Anthracene	0.193	0.020	"	0.200	0.002	95.6	70-130	5.38	20	
Benzo (a) anthracene	0.203	0.005	"	0.200	ND	102	70-130	4.43	20	
Benzo (a) pyrene	0.184	0.020	"	0.200	ND	92.2	70-130	3.04	20	
Benzo (b) fluoranthene	0.176	0.020	"	0.200	ND	88.2	70-130	1.24	20	
Benzo (g,h,i) perylene	0.177	0.020	"	0.200	ND	88.7	70-130	1.93	20	
Benzo (k) fluoranthene	0.163	0.020	"	0.200	ND	81.6	70-130	0.421	20	
Chrysene	0.178	0.020	"	0.200	ND	89.1	70-130	2.25	20	
Dibenz (a,h) anthracene	0.181	0.020	"	0.200	ND	90.3	70-130	0.468	20	
Fluoranthene	0.204	0.020	"	0.200	ND	102	70-130	2.86	20	

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Project: Chevron - Shable USX AB11-03

**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 B411656 - EPA 3580**

<b>Matrix Spike Dup (B411656-MSD1)</b>	<b>Source: E409380-01</b>			<b>Prepared: 09/16/2024 Analyzed: 09/20/2024</b>						
Fluorene	0.186	0.020	mg/kg	0.200	ND	93.0	70-130	3.98	20	
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200	ND	89.1	70-130	0.557	20	
Naphthalene	0.183	0.002	"	0.200	ND	91.4	70-130	3.43	20	
Phenanthrene	0.189	0.020	"	0.200	ND	94.5	70-130	5.57	20	
Pyrene	0.177	0.020	"	0.200	ND	88.4	70-130	0.382	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	190		"	200		92.5	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.1	60-130			

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Shable USX AB11-03

## 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 B4I1708 - Saturated Paste Metals

#### Blank (B4I1708-BLK1)

Prepared: 09/17/2024 Analyzed: 09/18/2024

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 (B4I1708-DUP1)

Source: E409421-02

Prepared: 09/17/2024 Analyzed: 09/18/2024

Calcium PPM	18.7	10.0	mg/L		22.4			18.0	50	
SAR	ND	0.0100	SAR		0.518				200	
Magnesium PPM	2.12	10.0	mg/L		2.53			17.6	50	
Sodium PPM	8.18	10.0	"		9.70			17.0	50	

### Batch B4I1715 - DTPA Sorbitol Preparation

#### Blank (B4I1715-BLK1)

Prepared: 09/17/2024 Analyzed: 09/18/2024

Boron	ND	0.100	mg/L							
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#### Duplicate (B4I1715-DUP1)

Source: E409419-01

Prepared: 09/17/2024 Analyzed: 09/18/2024

Boron	0.117	0.101	mg/L		0.237			67.9	50	QR-DUP
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Chelsea Veryser  
 Project Number: [none]  
 Project: Chevron - Shable USX AB11-03

**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4I1722 - Saturated Paste pH/EC</b>										
<b>Duplicate (B4I1722-DUP1)</b>		<b>Source: E409421-02</b>			Prepared: 09/17/2024 Analyzed: 09/20/2024					
pH	8.31		pH Units		8.40			1.08	25	
<b>Batch B4I2726 - Saturated Paste pH/EC</b>										
<b>Blank (B4I2726-BLK1)</b>					Prepared: 09/27/2024 Analyzed: 09/30/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4I2726-DUP1)</b>		<b>Source: E409538-02</b>			Prepared: 09/27/2024 Analyzed: 09/30/2024					
Specific Conductance (EC)	0.580	0.00500	mmhos/cm		0.804			32.4	25	QR-DUP

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Chelsea Veryser  
Project Number: [none]  
Project: Chevron - Shable USX AB11-03

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### Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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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