



Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

September 12, 2024

Project Name - Chevron - Guttersen USX D21-17 Project Number - [none]

Attached are your analytical results for Chevron - Guttersen USX D21-17 received by Origins Laboratory August 13, 2024. This project is associated with Origins project number Y408333-01.

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

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

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

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

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

Origins Laboratory
303.433.1322
projectmanager@originslab.com



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

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Guttersen USX D21-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y408333-01	Soil	August 13, 2024 9:00	08/13/2024 17:35
WH01-S@4	Y408333-05	Soil	August 13, 2024 9:20	08/13/2024 17:35

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 - Guttarsen USX D21-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4U08333 Client: Entrada
 Checklist Completed by: AK Client Project ID: GuttarsenUSX
 Date/time completed: 8/13/24 Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 115 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: 1005 Airbill #: N/A

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"/>	<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"/>	<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"/>	<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"/>		<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"/>		<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: AK (Project Manager)

Date/Time Reviewed: 8/15/24

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 - Guttarsen USX D21-17

WH01@6
8/13/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408333-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.124		0.0987	mg/L	1	B4H2017	08/20/2024	08/21/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H1502	08/15/2024	08/17/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	77.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H1505	08/15/2024	08/17/2024	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	105 %		70-130			"	"	"	
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Origins Laboratory



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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Guttersen USX D21-17

WH01@6
8/13/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408333-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.8 %		70-130			B4H15 05	08/15/2024	08/17/2024	
Surrogate: 4-Bromofluorobenzene	98.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.72		0.499	meq/L	10	[CALC]	08/15/2024	08/16/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.49		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H1630	08/16/2024	08/20/2024	Ua
2-Methylnaphthalene	0.002		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

Origins Laboratory



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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Guttersen USX D21-17

WH01@6
8/13/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408333-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4H1630	08/16/2024	08/20/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.3 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	94.8 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.34	pH Units	1	B4H1527	08/15/2024	08/16/2024
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SAR by 20B Saturated Paste

SAR	2.37	0.0100	SAR	1	B4H1521	08/15/2024	08/16/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.619	0.00500	mmhos/cm	1	B4H1527	08/15/2024	08/16/2024
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Table 915 metals by EPA 6020B

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 - Guttersen USX D21-17

WH01@6
8/13/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408333-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.51		0.268	mg/kg	10	B4H1443	08/14/2024	08/19/2024	
Barium	253		9.25	"	"	"	"	"	
Cadmium	ND		0.0925	"	"	"	"	"	
Copper	ND		9.25	"	"	"	"	"	
Lead	5.43		0.925	"	"	"	"	"	
Nickel	5.28		0.925	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0925	"	"	"	"	"	
Zinc	ND		34.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.125	0.314	mg/kg dry	1	2668314	09/09/2024	09/11/2024	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 - Guttersen USX D21-17

WH01-S@4

8/13/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408333-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.110		0.0999	mg/L	1	B4H2017	08/20/2024	08/21/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H1502	08/15/2024	08/17/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	77.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H1505	08/15/2024	08/17/2024	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	105 %		70-130			"	"	"	
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Origins Laboratory



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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Guttersen USX D21-17

WH01-S@4

8/13/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408333-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.2 %		70-130			B4H15 05	08/15/2024	08/17/2024	
Surrogate: 4-Bromofluorobenzene	97.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.29		0.499	meq/L	10	[CALC]	08/15/2024	08/16/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.95		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H1630	08/16/2024	08/20/2024	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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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Guttersen USX D21-17

WH01-S@4

8/13/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408333-05 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4H1630	08/16/2024	08/20/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	94.9 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	97.4 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	111 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.43	pH Units	1	B4H1527	08/15/2024	08/16/2024
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SAR by 20B Saturated Paste

SAR	2.11	0.0100	SAR	1	B4H1521	08/15/2024	08/16/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.424	0.00500	mmhos/cm	1	B4H1527	08/15/2024	08/16/2024
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Table 915 metals by EPA 6020B

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Guttersen USX D21-17

WH01-S@4

8/13/2024 9:20:00AM

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

Y408333-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.81		0.253	mg/kg	10	B4H1443	08/14/2024	08/19/2024	
Barium	96.1		8.72	"	"	"	"	"	
Cadmium	ND		0.0872	"	"	"	"	"	
Copper	ND		8.72	"	"	"	"	"	
Lead	5.31		0.872	"	"	"	"	"	
Nickel	6.07		0.872	"	"	"	"	"	
Selenium	ND		0.227	"	"	"	"	"	
Silver	ND		0.0872	"	"	"	"	"	
Zinc	ND		32.3	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.146	0.364	mg/kg dry	1	2668314	09/09/2024	09/11/2024	U
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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Guttersen USX D21-17

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 B4H1502 - EPA 3550B										
Blank (B4H1502-BLK1)										
					Prepared: 08/15/2024 Analyzed: 08/17/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	19		"	24.9		77.1	50-150			

Origins Laboratory



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Guttersen USX D21-17

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 B4H1502 - EPA 3550B

LCS (B4H1502-BS1)

Prepared: 08/15/2024 Analyzed: 08/17/2024

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

Origins Laboratory



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Guttersen USX D21-17

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 B4H1502 - EPA 3550B

Matrix Spike (B4H1502-MS1)	Source: Y408293-01			Prepared: 08/15/2024 Analyzed: 08/17/2024						
Diesel (C10-C28)	982	50.0	mg/kg	1000	ND	98.2	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.7	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Guttersen USX D21-17

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 B4H1502 - EPA 3550B										
Matrix Spike Dup (B4H1502-MSD1)		Source: Y408293-01			Prepared: 08/15/2024 Analyzed: 08/17/2024					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130	10.6	35	
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130	9.20	35	
Surrogate: o-Terphenyl	49		"	49.8		98.6	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Guttersen USX D21-17

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 B4H1505 - EPA 5030 (soil)

Blank (B4H1505-BLK1)

Prepared: 08/15/2024 Analyzed: 08/16/2024

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		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 - Guttersen USX D21-17

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 B4H1505 - EPA 5030 (soil)

LCS (B4H1505-BS1)

Prepared: 08/15/2024 Analyzed: 08/16/2024

1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100		118	70-130			
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Benzene	0.113	0.00200	"	0.100		113	70-130			
Ethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Naphthalene	0.117	0.00380	"	0.100		117	70-130			
Toluene	0.119	0.00200	"	0.100		119	70-130			
o-Xylene	0.117	0.00200	"	0.100		117	70-130			
m,p-Xylene	0.235	0.00400	"	0.200		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory



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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Guttersen USX D21-17

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 B4H1505 - EPA 5030 (soil)

Matrix Spike (B4H1505-MS1)	Source: Y408331-01			Prepared: 08/15/2024 Analyzed: 08/16/2024						
1,2,4-Trimethylbenzene	0.0746	0.00200	mg/kg	0.100	0.000660	73.9	70-130			
1,3,5-Trimethylbenzene	0.0732	0.00200	"	0.100	ND	73.2	70-130			
Benzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Ethylbenzene	0.0867	0.00200	"	0.100	ND	86.7	70-130			
Naphthalene	0.0669	0.00380	"	0.100	ND	66.9	70-130			QM-07
Toluene	0.0942	0.00200	"	0.100	ND	94.2	70-130			
o-Xylene	0.0830	0.00200	"	0.100	ND	83.0	70-130			
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	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 - Guttersen USX D21-17

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 B4H1505 - EPA 5030 (soil)

Matrix Spike Dup (B4H1505-MSD1)	Source: Y408331-01			Prepared: 08/15/2024 Analyzed: 08/16/2024						
1,2,4-Trimethylbenzene	0.0754	0.00200	mg/kg	0.100	0.000660	74.8	70-130	1.17	20	
1,3,5-Trimethylbenzene	0.0736	0.00200	"	0.100	ND	73.6	70-130	0.545	20	
Benzene	0.0996	0.00200	"	0.100	ND	99.6	70-130	2.73	20	
Ethylbenzene	0.0851	0.00200	"	0.100	ND	85.1	70-130	1.86	20	
Naphthalene	0.0758	0.00380	"	0.100	ND	75.8	70-130	12.6	20	
Toluene	0.0938	0.00200	"	0.100	ND	93.8	70-130	0.404	20	
o-Xylene	0.0823	0.00200	"	0.100	ND	82.3	70-130	0.774	20	
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.7	70-130	0.975	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	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 - Guttersen USX D21-17

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 B4H1443 - EPA 3050B

Blank (B4H1443-BLK1)

Prepared: 08/14/2024 Analyzed: 08/19/2024

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 (B4H1443-BS1)

Prepared: 08/14/2024 Analyzed: 08/19/2024

Arsenic	5.52	0.290	mg/kg	5.00	110	80-120
Barium	587	10.0	"	500	117	80-120
Cadmium	5.45	0.100	"	5.00	109	80-120
Copper	55.9	10.0	"	50.0	112	80-120
Lead	5.43	1.00	"	5.00	109	80-120
Nickel	5.61	1.00	"	5.00	112	80-120
Selenium	5.71	0.260	"	5.00	114	80-120
Silver	5.61	0.100	"	5.00	112	80-120
Zinc	53.6	37.0	"	50.0	107	80-120

Matrix Spike (B4H1443-MS1)

Source: Y408331-02

Prepared: 08/14/2024 Analyzed: 08/19/2024

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 - Guttersen USX D21-17

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 B4H1443 - EPA 3050B

Matrix Spike (B4H1443-MS1)	Source: Y408331-02			Prepared: 08/14/2024 Analyzed: 08/19/2024						
Arsenic	9.64	0.288	mg/kg	4.97	4.00	114	75-125			
Barium	818	9.93	"	497	264	111	75-125			
Cadmium	5.38	0.0993	"	4.97	0.187	105	75-125			
Copper	63.7	9.93	"	49.7	11.1	106	75-125			
Lead	21.9	0.993	"	4.97	11.7	207	75-125			QM-07
Nickel	14.1	0.993	"	4.97	8.24	118	75-125			
Selenium	5.44	0.258	"	4.97	0.210	105	75-125			
Silver	5.18	0.0993	"	4.97	0.0194	104	75-125			
Zinc	96.6	36.7	"	49.7	41.8	110	75-125			

Matrix Spike Dup (B4H1443-MSD1)	Source: Y408331-02			Prepared: 08/14/2024 Analyzed: 08/19/2024						
Arsenic	10.7	0.270	mg/kg	4.65	4.00	143	75-125	10.0	20	QM-07
Barium	776	9.30	"	465	264	110	75-125	5.20	20	
Cadmium	5.27	0.0930	"	4.65	0.187	109	75-125	2.05	20	
Copper	64.0	9.30	"	46.5	11.1	114	75-125	0.446	20	
Lead	18.4	0.930	"	4.65	11.7	144	75-125	17.7	20	QM-07
Nickel	14.2	0.930	"	4.65	8.24	128	75-125	0.755	20	QM-07
Selenium	5.39	0.242	"	4.65	0.210	111	75-125	0.895	20	
Silver	5.09	0.0930	"	4.65	0.0194	109	75-125	1.63	20	
Zinc	96.9	34.4	"	46.5	41.8	119	75-125	0.331	20	

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Guttersen USX D21-17

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 B4H1630 - EPA 3580

Blank (B4H1630-BLK1)

Prepared: 08/16/2024 Analyzed: 08/20/2024

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	98.6	60-130
Surrogate: Anthracene-d10	200		"	200	98.2	60-130
Surrogate: Pyrene-d10	220		"	200	109	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	102	60-130

LCS (B4H1630-BS1)

Prepared: 08/16/2024 Analyzed: 08/20/2024

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200	88.9	70-130
2-Methylnaphthalene	0.176	0.002	"	0.200	88.0	70-130
Acenaphthene	0.184	0.020	"	0.200	91.9	70-130
Anthracene	0.172	0.020	"	0.200	85.9	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 - Guttersen USX D21-17

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 B4H1630 - EPA 3580

LCS (B4H1630-BS1)

Prepared: 08/16/2024 Analyzed: 08/20/2024

Benzo (a) anthracene	0.187	0.005	mg/kg	0.200		93.3	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.7	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200		99.8	70-130			
Benzo (g,h,i) perylene	0.175	0.020	"	0.200		87.4	70-130			
Benzo (k) fluoranthene	0.188	0.020	"	0.200		93.8	70-130			
Chrysene	0.190	0.020	"	0.200		94.8	70-130			
Dibenz (a,h) anthracene	0.151	0.020	"	0.200		75.6	70-130			
Fluoranthene	0.210	0.020	"	0.200		105	70-130			
Fluorene	0.181	0.020	"	0.200		90.6	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200		98.4	70-130			
Naphthalene	0.188	0.002	"	0.200		93.9	70-130			
Phenanthrene	0.178	0.020	"	0.200		89.2	70-130			
Pyrene	0.203	0.020	"	0.200		101	70-130			
<hr/>										
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		92.3	60-130			
Surrogate: Pyrene-d10	220		"	200		111	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4H1630-MS1)

Source: Y408332-01

Prepared: 08/16/2024 Analyzed: 08/20/2024

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	0.005	89.8	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200	0.005	91.1	70-130			
Acenaphthene	0.188	0.020	"	0.200	0.0007	93.4	70-130			
Anthracene	0.186	0.020	"	0.200	ND	93.1	70-130			
Benzo (a) anthracene	0.194	0.005	"	0.200	0.0007	96.4	70-130			
Benzo (a) pyrene	0.193	0.020	"	0.200	0.002	95.7	70-130			
Benzo (b) fluoranthene	0.193	0.020	"	0.200	0.002	95.5	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.004	99.5	70-130			

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Entrada Consulting Group
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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Guttersen USX D21-17

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 B4H1630 - EPA 3580

Matrix Spike (B4H1630-MS1)	Source: Y408332-01			Prepared: 08/16/2024 Analyzed: 08/20/2024						
Benzo (k) fluoranthene	0.194	0.020	mg/kg	0.200	0.001	96.3	70-130			
Chrysene	0.193	0.020	"	0.200	0.002	95.4	70-130			
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	0.005	98.8	70-130			
Fluoranthene	0.216	0.020	"	0.200	0.0003	108	70-130			
Fluorene	0.181	0.020	"	0.200	0.0008	90.1	70-130			
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	0.005	99.9	70-130			
Naphthalene	0.192	0.002	"	0.200	0.002	95.2	70-130			
Phenanthrene	0.186	0.020	"	0.200	0.001	92.2	70-130			
Pyrene	0.194	0.020	"	0.200	0.0005	96.9	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.7	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4H1630-MSD1)	Source: Y408332-01			Prepared: 08/16/2024 Analyzed: 08/20/2024						
1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.005	90.5	70-130	0.805	20	
2-Methylnaphthalene	0.187	0.002	"	0.200	0.005	91.2	70-130	0.160	20	
Acenaphthene	0.187	0.020	"	0.200	0.0007	93.1	70-130	0.343	20	
Anthracene	0.182	0.020	"	0.200	ND	91.0	70-130	2.28	20	
Benzo (a) anthracene	0.190	0.005	"	0.200	0.0007	94.7	70-130	1.83	20	
Benzo (a) pyrene	0.202	0.020	"	0.200	0.002	100	70-130	4.52	20	
Benzo (b) fluoranthene	0.179	0.020	"	0.200	0.002	88.5	70-130	7.55	20	
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	0.004	95.0	70-130	4.55	20	
Benzo (k) fluoranthene	0.197	0.020	"	0.200	0.001	98.2	70-130	1.86	20	
Chrysene	0.191	0.020	"	0.200	0.002	94.6	70-130	0.793	20	
Dibenz (a,h) anthracene	0.190	0.020	"	0.200	0.005	92.3	70-130	6.63	20	
Fluoranthene	0.199	0.020	"	0.200	0.0003	99.5	70-130	7.86	20	

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Guttersen USX D21-17

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 B4H1630 - EPA 3580

Matrix Spike Dup (B4H1630-MSD1)	Source: Y408332-01			Prepared: 08/16/2024 Analyzed: 08/20/2024						
Fluorene	0.167	0.020	mg/kg	0.200	0.0008	83.2	70-130	7.90	20	
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	0.005	112	70-130	11.2	20	
Naphthalene	0.192	0.002	"	0.200	0.002	94.8	70-130	0.438	20	
Phenanthrene	0.187	0.020	"	0.200	0.001	92.6	70-130	0.370	20	
Pyrene	0.195	0.020	"	0.200	0.0005	97.5	70-130	0.685	20	
Surrogate: Fluorene-d10	180		ug/kg	200		91.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.2	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Guttersen USX D21-17

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 B4H1521 - Saturated Paste Metals

Blank (B4H1521-BLK1)

Prepared: 08/15/2024 Analyzed: 08/16/2024

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 (B4H1521-DUP1)

Source: Y408322-01

Prepared: 08/15/2024 Analyzed: 08/16/2024

SAR	ND	0.0100	SAR		6.10				200	
Calcium PPM	135	10.0	mg/L		150			11.1	50	
Magnesium PPM	9.48	10.0	"		15.8			50.1	50	QR-DUP
Sodium PPM	286	10.0	"		294			2.70	50	

Batch B4H2017 - DTPA Sorbitol Preparation

Blank (B4H2017-BLK1)

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

Boron	ND	0.100	mg/L							
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Duplicate (B4H2017-DUP1)

Source: Y408332-02

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

Boron	0.283	0.101	mg/L		0.399			33.8	50	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Guttersen USX D21-17

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 B4H1527 - Saturated Paste pH/EC

Blank (B4H1527-BLK1)

Prepared: 08/15/2024 Analyzed: 08/16/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4H1527-DUP1)

Source: Y408322-01

Prepared: 08/15/2024 Analyzed: 08/16/2024

Specific Conductance (EC)	2.44	0.00500	mmhos/cm	2.61	6.63	25
pH	8.90		pH Units	8.44	5.31	25

Origins Laboratory



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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Guttersen USX D21-17

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 2668314 - SW846 3060A										
BLANK (1205846647-BLK)					Prepared: 09/09/2024 Analyzed: 09/11/2024					
Hexavalent Chromium	ND	0.382	mg/kg				-			U
LCS (1205846648-BKS)					Prepared: 09/09/2024 Analyzed: 09/11/2024					
Hexavalent Chromium	3.77	0.377	mg/kg	3.77		99.8	80-120			
DUP (1205846649 D)					Prepared: 09/09/2024 Analyzed: 09/11/2024					
Source: 681073001										
Hexavalent Chromium	ND	0.510	mg/kg dry		<0.204		0-50	N/A	50	U
MS (1205846650 S)					Prepared: 09/09/2024 Analyzed: 09/11/2024					
Source: 681073001										
Hexavalent Chromium	2.47	0.510	mg/kg dry	5.10	<0.204	46	75-125			
DUP (1205846651 D)					Prepared: 09/09/2024 Analyzed: 09/11/2024					
Source: 681073002										
Hexavalent Chromium	ND	0.292	mg/kg dry		<0.117		0-50	N/A	50	U
MS (1205846652 S)					Prepared: 09/09/2024 Analyzed: 09/11/2024					
Source: 681073002										
Hexavalent Chromium	1.25	0.292	mg/kg dry	2.92	<0.117	41.6	75-125			
ILCS (1205846653-ILCS)					Prepared: 09/09/2024 Analyzed: 09/11/2024					
Source: 681073002										
Hexavalent Chromium	7.38	0.354	mg/kg	7.22		102	80-120			

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - Gutterson USX D21-17

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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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