



Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

October 16, 2024

**Project Name - Chevron - 70 Ranch USX
BB09-99HZ**

Project Number - [none]

Attached are your analytical results for Chevron - 70 Ranch USX BB09-99HZ received by Origins Laboratory September 17, 2024. This project is associated with Origins project number E409522-02.

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 - 70 Ranch USX BB09-99HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLR01@4	E409522-02	Soil	September 16, 2024 15:05	09/17/2024 17:25
WH01-N@4	E409522-03	Soil	September 16, 2024 15:10	09/17/2024 17:25

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 - 70 Ranch USX BB09-99HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: EY09522 Client: Entrada
 Checklist Completed by: EMJ KK Client Project ID: 70 Ranch
 Date/time completed: 9/18/12 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 14.7 °C / _____ °C / _____ °C (Describe) _____ °C
 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⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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 Na ₂ CO ₃ +NaOH, ZnAc+NaOH)			/	
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) JAP

Date/Time Reviewed 9/20/12

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 - 70 Ranch USX BB09-99HZ

FLR01@4

9/16/2024 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409522-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B412006	09/20/2024	09/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B412024	09/20/2024	09/23/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411970	09/19/2024	09/22/2024	U
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	0.383		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.7 %		70-130			"	"	"	

Origins Laboratory



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Entrada Consulting Group
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 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

FLR01@4

9/16/2024 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409522-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	104 %	70-130		B41197 0	09/19/2024	09/22/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.869	0.499	meq/L	10	[CALC]	09/19/2024	09/20/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.012	0.002	mg/kg	1	B412332	09/23/2024	09/27/2024
2-Methylnaphthalene	0.014	0.002	"	"	"	"	"
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 (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	0.055	0.020	"	"	"	"	"

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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

FLR01@4

9/16/2024 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409522-02 (Soil)

PAH by EPA 8270E extracted via 3580A

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B412332	09/23/2024	09/27/2024	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	0.024	0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	100 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	95.0 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.39	pH Units	1	B411926	09/19/2024	09/23/2024
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SAR by 20B Saturated Paste

SAR	0.182	0.0100	SAR	1	B411908	09/19/2024	09/20/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.222	0.00500	mmhos/cm	1	B411926	09/19/2024	09/23/2024
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Table 915 metals by EPA 6020B

Arsenic	2.01	0.257	mg/kg	10	B411854	09/18/2024	09/21/2024
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Chelsea Veryser
Project Number: [none]
Project: Chevron - 70 Ranch USX BB09-99HZ

FLR01@4

9/16/2024 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409522-02 (Soil)

Table 915 metals by EPA 6020B

Barium	203		8.86	mg/kg	10	B411854	09/18/2024	09/21/2024	
Cadmium	ND		0.0886	"	"	"	"	"	
Copper	ND		8.86	"	"	"	"	"	
Lead	34.6		0.886	"	"	"	"	"	
Nickel	3.49		0.886	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.0886	"	"	"	"	"	
Zinc	ND		32.8	"	"	"	"	"	

Total Metals 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L777676	09/16/2024	10/11/2024	
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 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

WH01-N@4

9/16/2024 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409522-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B412006	09/20/2024	09/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B412024	09/20/2024	09/23/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	71.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B411970	09/19/2024	09/22/2024	U
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	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %		70-130			"	"	"	
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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

WH01-N@4

9/16/2024 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E409522-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.5 %	70-130	B41197	0	09/19/2024	09/22/2024
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.780	0.499	meq/L	10	[CALC]	09/19/2024	09/20/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.454	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B412332	09/23/2024	09/27/2024	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 (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory



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330 Grand Ave. Unit C
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Chelsea Veryser
Project Number: [none]
Project: Chevron - 70 Ranch USX BB09-99HZ

WH01-N@4

9/16/2024 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409522-03 (Soil)**

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B412332	09/23/2024	09/27/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B411926	09/19/2024	09/23/2024	
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SAR by 20B Saturated Paste

SAR	0.606		0.0100	SAR	1	B411908	09/19/2024	09/20/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.220		0.00500	mmhos/cm	1	B411926	09/19/2024	09/23/2024	
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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 Verysen
Project Number: [none]
Project: Chevron - 70 Ranch USX BB09-99HZ

WH01-N@4

9/16/2024 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E409522-03 (Soil)**

Table 915 metals by EPA 6020B

Arsenic	2.55		0.249	mg/kg	10	B411854	09/18/2024	09/21/2024	
Barium	76.9		8.59	"	"	"	"	"	
Cadmium	ND		0.0859	"	"	"	"	"	
Copper	ND		8.59	"	"	"	"	"	
Lead	5.98		0.859	"	"	"	"	"	
Nickel	2.86		0.859	"	"	"	"	"	
Selenium	ND		0.223	"	"	"	"	"	
Silver	ND		0.0859	"	"	"	"	"	
Zinc	ND		31.8	"	"	"	"	"	

Total Metals 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L777676	09/16/2024	10/11/2024	
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330 Grand Ave. Unit C
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Chelsea Veryser
Project Number: [none]
Project: Chevron - 70 Ranch USX BB09-99HZ

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 B4I1970 - EPA 5030 (soil)										
Blank (B4I1970-BLK1)										
					Prepared: 09/19/2024 Analyzed: 09/21/2024					
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		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Chelsea Veryser
Project Number: [none]
Project: Chevron - 70 Ranch USX BB09-99HZ

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 B4I1970 - EPA 5030 (soil)

LCS (B4I1970-BS1)

Prepared: 09/19/2024 Analyzed: 09/21/2024

1,2,4-Trimethylbenzene	0.0906	0.00200	mg/kg	0.100		90.6	70-130			
1,3,5-Trimethylbenzene	0.0904	0.00200	"	0.100		90.4	70-130			
Benzene	0.0835	0.00200	"	0.100		83.5	70-130			
Ethylbenzene	0.0893	0.00200	"	0.100		89.3	70-130			
Naphthalene	0.0888	0.00380	"	0.100		88.8	70-130			
Toluene	0.0855	0.00200	"	0.100		85.5	70-130			
o-Xylene	0.0888	0.00200	"	0.100		88.8	70-130			
m,p-Xylene	0.178	0.00400	"	0.200		88.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

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 B411970 - EPA 5030 (soil)

Matrix Spike (B411970-MS1)	Source: E409517-01			Prepared: 09/19/2024 Analyzed: 09/21/2024						
1,2,4-Trimethylbenzene	0.0831	0.00200	mg/kg	0.100	ND	83.1	70-130			
1,3,5-Trimethylbenzene	0.0835	0.00200	"	0.100	ND	83.5	70-130			
Benzene	0.0688	0.00200	"	0.100	ND	68.8	70-130			QM-07
Ethylbenzene	0.0859	0.00200	"	0.100	ND	85.9	70-130			
Naphthalene	0.0646	0.00380	"	0.100	ND	64.6	70-130			QM-07
Toluene	0.0769	0.00200	"	0.100	ND	76.9	70-130			
o-Xylene	0.0853	0.00200	"	0.100	ND	85.3	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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 330 Grand Ave. Unit C
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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

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 B411970 - EPA 5030 (soil)

Matrix Spike Dup (B411970-MSD1)	Source: E409517-01			Prepared: 09/19/2024 Analyzed: 09/21/2024						
1,2,4-Trimethylbenzene	0.0696	0.00200	mg/kg	0.100	ND	69.6	70-130	17.7	20	QM-07
1,3,5-Trimethylbenzene	0.0694	0.00200	"	0.100	ND	69.4	70-130	18.5	20	QM-07
Benzene	0.0624	0.00200	"	0.100	ND	62.4	70-130	9.75	20	QM-07
Ethylbenzene	0.0741	0.00200	"	0.100	ND	74.1	70-130	14.8	20	
Naphthalene	0.0524	0.00380	"	0.100	ND	52.4	70-130	20.9	20	QM-07
Toluene	0.0680	0.00200	"	0.100	ND	68.0	70-130	12.3	20	QM-07
o-Xylene	0.0740	0.00200	"	0.100	ND	74.0	70-130	14.2	20	
m,p-Xylene	0.148	0.00400	"	0.200	ND	74.0	70-130	14.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	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 - 70 Ranch USX BB09-99HZ

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 B4I2024 - EPA 3550B										
Blank (B4I2024-BLK1)										
					Prepared: 09/20/2024 Analyzed: 09/23/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		99.6	50-150			

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 - 70 Ranch USX BB09-99HZ

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 B4I2024 - EPA 3550B

LCS (B4I2024-BS1)

Prepared: 09/20/2024 Analyzed: 09/23/2024

Diesel (C10-C28)	875	50.0	mg/kg	1000		87.5	70-130			
Residual Range Organics (C28-C40)	943	200	"	1000		94.3	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

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 B4I2024 - EPA 3550B

Matrix Spike (B4I2024-MS1)	Source: E409519-01			Prepared: 09/20/2024 Analyzed: 09/23/2024						
Diesel (C10-C28)	872	50.0	mg/kg	1000	ND	87.2	70-130			
Residual Range Organics (C28-C40)	962	200	"	1000	ND	96.2	70-130			
Surrogate: o-Terphenyl	50		"	49.8		99.9	50-150			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

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 B4I2024 - EPA 3550B

Matrix Spike Dup (B4I2024-MSD1)	Source: E409519-01			Prepared: 09/20/2024 Analyzed: 09/23/2024						
Diesel (C10-C28)	904	50.0	mg/kg	1000	ND	90.4	70-130	3.61	35	
Residual Range Organics (C28-C40)	993	200	"	1000	ND	99.3	70-130	3.20	35	
<i>Surrogate: o-Terphenyl</i>	<i>51</i>		<i>"</i>	<i>49.8</i>		<i>102</i>	<i>50-150</i>			

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

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 B4I1854 - EPA 3050B

Blank (B4I1854-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 (B4I1854-BS1)

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

Arsenic	4.98	0.290	mg/kg	5.00		99.6	80-120			
Barium	478	10.0	"	500		95.5	80-120			
Cadmium	5.09	0.100	"	5.00		102	80-120			
Copper	50.8	10.0	"	50.0		102	80-120			
Lead	4.82	1.00	"	5.00		96.3	80-120			
Nickel	5.06	1.00	"	5.00		101	80-120			
Selenium	4.94	0.260	"	5.00		98.8	80-120			
Silver	5.26	0.100	"	5.00		105	80-120			
Zinc	49.1	37.0	"	50.0		98.1	80-120			

Matrix Spike (B4I1854-MS1)

Source: E409520-01

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

Origins Laboratory

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Entrada Consulting Group
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 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

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 B411854 - EPA 3050B

Matrix Spike (B411854-MS1)	Source: E409520-01			Prepared: 09/18/2024 Analyzed: 09/21/2024						
Arsenic	5.85	0.259	mg/kg	4.47	1.54	96.6	75-125			
Barium	485	8.93	"	447	49.7	97.5	75-125			
Cadmium	4.80	0.0893	"	4.47	0.0668	106	75-125			
Copper	50.4	8.93	"	44.7	4.60	102	75-125			
Lead	10.4	0.893	"	4.47	5.60	108	75-125			
Nickel	9.72	0.893	"	4.47	4.08	126	75-125			QM-07
Selenium	4.35	0.232	"	4.47	ND	97.3	75-125			
Silver	4.90	0.0893	"	4.47	0.0208	109	75-125			
Zinc	67.7	33.1	"	44.7	21.0	105	75-125			

Matrix Spike Dup (B411854-MSD1)	Source: E409520-01			Prepared: 09/18/2024 Analyzed: 09/21/2024						
Arsenic	5.86	0.279	mg/kg	4.81	1.54	89.9	75-125	0.0916	20	
Barium	482	9.62	"	481	49.7	89.8	75-125	0.706	20	
Cadmium	4.78	0.0962	"	4.81	0.0668	97.9	75-125	0.426	20	
Copper	52.0	9.62	"	48.1	4.60	98.7	75-125	3.32	20	
Lead	9.90	0.962	"	4.81	5.60	89.5	75-125	5.21	20	
Nickel	9.48	0.962	"	4.81	4.08	112	75-125	2.43	20	
Selenium	4.56	0.250	"	4.81	ND	94.8	75-125	4.69	20	
Silver	4.99	0.0962	"	4.81	0.0208	103	75-125	1.75	20	
Zinc	68.9	35.6	"	48.1	21.0	99.8	75-125	1.80	20	

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - 70 Ranch USX BB09-99HZ

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 B4I2332 - EPA 3580

Blank (B4I2332-BLK1)

Prepared: 09/23/2024 Analyzed: 09/26/2024

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	101	60-130
Surrogate: Anthracene-d10	190		"	200	93.1	60-130
Surrogate: Pyrene-d10	190		"	200	94.5	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	102	60-130

LCS (B4I2332-BS1)

Prepared: 09/23/2024 Analyzed: 09/26/2024

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	100	70-130
2-Methylnaphthalene	0.199	0.002	"	0.200	99.7	70-130
Acenaphthene	0.204	0.020	"	0.200	102	70-130
Anthracene	0.198	0.020	"	0.200	98.9	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 - 70 Ranch USX BB09-99HZ

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 B4I2332 - EPA 3580

LCS (B4I2332-BS1)

Prepared: 09/23/2024 Analyzed: 09/26/2024

Benzo (a) anthracene	0.194	0.005	mg/kg	0.200		97.0	70-130			
Benzo (a) pyrene	0.216	0.020	"	0.200		108	70-130			
Benzo (b) fluoranthene	0.215	0.020	"	0.200		108	70-130			
Benzo (g,h,i) perylene	0.207	0.020	"	0.200		104	70-130			
Benzo (k) fluoranthene	0.214	0.020	"	0.200		107	70-130			
Chrysene	0.183	0.020	"	0.200		91.4	70-130			
Dibenz (a,h) anthracene	0.204	0.020	"	0.200		102	70-130			
Fluoranthene	0.194	0.020	"	0.200		97.0	70-130			
Fluorene	0.206	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		103	70-130			
Naphthalene	0.206	0.002	"	0.200		103	70-130			
Phenanthrene	0.197	0.020	"	0.200		98.3	70-130			
Pyrene	0.195	0.020	"	0.200		97.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		92.9	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike (B4I2332-MS1)

Source: E409519-01

Prepared: 09/23/2024 Analyzed: 09/26/2024

1-Methylnaphthalene	0.325	0.002	mg/kg	0.200	0.203	60.7	70-130			QM-07
2-Methylnaphthalene	0.396	0.002	"	0.200	0.310	43.0	70-130			QM-07
Acenaphthene	0.207	0.020	"	0.200	0.039	84.2	70-130			
Anthracene	0.177	0.020	"	0.200	0.004	86.4	70-130			
Benzo (a) anthracene	0.171	0.005	"	0.200	0.002	84.6	70-130			
Benzo (a) pyrene	0.174	0.020	"	0.200	0.004	85.3	70-130			
Benzo (b) fluoranthene	0.183	0.020	"	0.200	0.003	89.9	70-130			
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	0.007	88.2	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 - 70 Ranch USX BB09-99HZ

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 B4I2332 - EPA 3580

Matrix Spike (B4I2332-MS1)	Source: E409519-01			Prepared: 09/23/2024 Analyzed: 09/26/2024						
Benzo (k) fluoranthene	0.195	0.020	mg/kg	0.200	ND	97.7	70-130			
Chrysene	0.171	0.020	"	0.200	0.003	84.2	70-130			
Dibenz (a,h) anthracene	0.179	0.020	"	0.200	ND	89.3	70-130			
Fluoranthene	0.171	0.020	"	0.200	0.005	82.9	70-130			
Fluorene	0.216	0.020	"	0.200	0.048	83.8	70-130			
Indeno (1,2,3-cd) pyrene	0.179	0.020	"	0.200	0.003	88.1	70-130			
Naphthalene	0.269	0.002	"	0.200	0.108	80.7	70-130			
Phenanthrene	0.218	0.020	"	0.200	0.058	80.2	70-130			
Pyrene	0.189	0.020	"	0.200	0.016	86.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		92.6	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4I2332-MSD1)	Source: E409519-01			Prepared: 09/23/2024 Analyzed: 09/26/2024						
1-Methylnaphthalene	0.258	0.002	mg/kg	0.200	0.203	27.4	70-130	22.9	20	QM-07, QR-02
2-Methylnaphthalene	0.310	0.002	"	0.200	0.310	NR	70-130	24.5	20	QM-07, QR-02
Acenaphthene	0.184	0.020	"	0.200	0.039	72.5	70-130	11.9	20	
Anthracene	0.154	0.020	"	0.200	0.004	75.0	70-130	13.8	20	
Benzo (a) anthracene	0.149	0.005	"	0.200	0.002	73.7	70-130	13.5	20	
Benzo (a) pyrene	0.153	0.020	"	0.200	0.004	74.7	70-130	12.9	20	
Benzo (b) fluoranthene	0.158	0.020	"	0.200	0.003	77.3	70-130	14.8	20	
Benzo (g,h,i) perylene	0.159	0.020	"	0.200	0.007	75.9	70-130	14.4	20	
Benzo (k) fluoranthene	0.150	0.020	"	0.200	ND	75.1	70-130	26.1	20	QR-02
Chrysene	0.153	0.020	"	0.200	0.003	75.0	70-130	11.4	20	
Dibenz (a,h) anthracene	0.155	0.020	"	0.200	ND	77.5	70-130	14.2	20	

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

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 B412332 - EPA 3580

Matrix Spike Dup (B412332-MSD1)	Source: E409519-01			Prepared: 09/23/2024 Analyzed: 09/26/2024						
Fluoranthene	0.151	0.020	mg/kg	0.200	0.005	72.9	70-130	12.3	20	
Fluorene	0.192	0.020	"	0.200	0.048	71.7	70-130	11.9	20	
Indeno (1,2,3-cd) pyrene	0.157	0.020	"	0.200	0.003	77.2	70-130	13.0	20	
Naphthalene	0.220	0.002	"	0.200	0.108	55.9	70-130	20.3	20	QM-07, QR-02
Phenanthrene	0.187	0.020	"	0.200	0.058	64.9	70-130	15.1	20	QM-07
Pyrene	0.159	0.020	"	0.200	0.016	71.5	70-130	16.9	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		92.1	60-130			
Surrogate: Pyrene-d10	200		"	200		99.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	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 - 70 Ranch USX BB09-99HZ

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 B4I1908 - Saturated Paste Metals

Blank (B4I1908-BLK1)

Prepared: 09/19/2024 Analyzed: 09/20/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

Duplicate (B4I1908-DUP1)

Source: E409516-01

Prepared: 09/19/2024 Analyzed: 09/20/2024

Calcium PPM	34.9	10.0	mg/L	34.8	0.345	50
SAR	ND	0.0100	SAR	0.447		200
Magnesium PPM	4.50	10.0	mg/L	4.88	8.10	50
Sodium PPM	12.7	10.0	"	10.6	17.7	50

Batch B4I2006 - DTPA Sorbitol Preparation

Blank (B4I2006-BLK1)

Prepared: 09/20/2024 Analyzed: 09/23/2024

Boron	ND	0.100	mg/L
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Duplicate (B4I2006-DUP1)

Source: E409465-01

Prepared: 09/20/2024 Analyzed: 09/23/2024

Boron	0.457	0.994	mg/L	0.386	16.9	50
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

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 B4I1926 - Saturated Paste pH/EC

Blank (B4I1926-BLK1)

Prepared: 09/19/2024 Analyzed: 09/23/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4I1926-DUP1)

Source: E409516-01

Prepared: 09/19/2024 Analyzed: 09/23/2024

pH	8.46		pH Units	8.51			0.589	25	
Specific Conductance (EC)	0.384	0.00500	mmhos/cm	0.392			2.24	25	

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - 70 Ranch USX BB09-99HZ

Total Metals 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L777676 -										
DUP (L 95111-DUP)			Source: 95111			Prepared: Analyzed: 10/11/2024				
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 95111-MS)			Source: 95111			Prepared: Analyzed: 10/11/2024				
Chromium, Hexavalent	35.5	2.59	mg/Kg	41.4	< 0.244	86	75-125			
LCS (LCS)						Prepared: Analyzed: 10/11/2024				
Chromium, Hexavalent	6.45	0.5	mg/Kg	8		81	75-125			
LRB (LRB)						Prepared: Analyzed: 10/11/2024				
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Chelsea Veryser
Project Number: [none]
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Notes and Definitions

U Sample is Non-Detect.

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.

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