

May 07, 2024

Entrada Consulting Group

Chelsea Veryter

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Erikson A04-12

Project Number - [none]

Attached are your analytical results for Chevron - Erikson A04-12 received by Origins Laboratory, Inc. April 24, 2024. This project is associated with Origins project number Y404712-01.

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

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

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

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

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

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



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Erikson A04-12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y404712-01	Soil	April 24, 2024 10:00	04/24/2024 15:10
FLR01@4'	Y404712-02	Soil	April 24, 2024 10:05	04/24/2024 15:10

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

WH01@6

4/24/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404712-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.381		0.0992	mg/L	1	B4D2611	04/26/2024	04/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2538	04/25/2024	05/03/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	97.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2555	04/25/2024	05/02/2024	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	103 %		70-130			"	"	"	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

WH01@6

4/24/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404712-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.5 %		70-130			B4D25 55	04/25/2024	05/02/2024	
Surrogate: 4-Bromofluorobenzene	98.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.70	0.499	meq/L	10	[CALC]		04/26/2024	04/29/2024	
Magnesium	1.62	0.823	"	"	"		"	"	
Sodium	0.949	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D2544		04/25/2024	05/03/2024	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

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

WH01@6

4/24/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404712-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D2544	04/25/2024	05/03/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	105 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.35			pH Units	1	B4D2615	04/26/2024	04/27/2024	
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SAR by 20B Saturated Paste

SAR	0.646		0.0100	SAR	1	B4D2605	04/26/2024	04/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.588		0.00500	mmhos/cm	1	B4D2615	04/26/2024	04/27/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

WH01@6

4/24/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404712-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.03	0.261	mg/kg	10	B4D2526	04/25/2024	04/29/2024	
Barium	95.4	9.01	"	"	"	"	"	
Cadmium	0.304	0.0901	"	"	"	"	"	
Copper	11.6	9.01	"	"	"	"	"	
Lead	9.30	0.901	"	"	"	"	"	
Nickel	10.0	0.901	"	"	"	"	"	
Selenium	0.293	0.234	"	"	"	"	"	
Silver	0.106	0.0901	"	"	"	"	"	
Zinc	51.2	33.3	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.150	0.375	mg/kg dry	1	2605446	05/01/2024	05/03/2024	U
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

FLR01@4'
4/24/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404712-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.249		0.0997	mg/L	1	B4D2611	04/26/2024	04/30/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2538	04/25/2024	05/03/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	109 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2555	04/25/2024	05/02/2024	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	106 %		70-130			"	"	"	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

FLR01@4'

4/24/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404712-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.4 %		70-130			B4D25 55	04/25/2024	05/02/2024	
Surrogate: 4-Bromofluorobenzene	97.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.63	0.499	meq/L	10	[CALC]		04/26/2024	04/29/2024	
Magnesium	0.927	0.823	"	"	"		"	"	
Sodium	0.479	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D2544		04/25/2024	05/03/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	Ua
Acenaphthene	ND	0.020	"	"	"		"	"	Ua
Anthracene	ND	0.020	"	"	"		"	"	Ua
Benzo (a) anthracene	0.011	0.005	"	"	"		"	"	
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	0.024	0.020	"	"	"		"	"	

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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

FLR01@4'

4/24/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404712-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D2544	04/25/2024	05/03/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.45			pH Units	1	B4D2615	04/26/2024	04/27/2024	
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SAR by 20B Saturated Paste

SAR	0.423		0.0100	SAR	1	B4D2605	04/26/2024	04/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.332		0.00500	mmhos/cm	1	B4D2615	04/26/2024	04/27/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

FLR01@4'

4/24/2024 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404712-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.05		0.260	mg/kg	10	B4D2526	04/25/2024	04/29/2024	
Barium	102		8.96	"	"	"	"	"	
Cadmium	0.218		0.0896	"	"	"	"	"	
Copper	11.4		8.96	"	"	"	"	"	
Lead	10.0		0.896	"	"	"	"	"	
Nickel	9.87		0.896	"	"	"	"	"	
Selenium	0.390		0.233	"	"	"	"	"	
Silver	ND		0.0896	"	"	"	"	"	
Zinc	55.0		33.2	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.180	0.450	mg/kg dry	1	2605446	05/01/2024	05/03/2024	U
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Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Erikson A04-12

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2538 - EPA 3550B

Blank (B4D2538-BLK1)

Prepared: 04/25/2024 Analyzed: 05/02/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	28		"	24.9		114	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Erikson A04-12

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2538 - EPA 3550B

LCS (B4D2538-BS1)

Prepared: 04/25/2024 Analyzed: 05/03/2024

Diesel (C10-C28)	948	50.0	mg/kg	1000		94.8	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2538 - EPA 3550B

Matrix Spike (B4D2538-MS1)	Source: Y404712-01			Prepared: 04/25/2024 Analyzed: 05/03/2024						
Diesel (C10-C28)	884	50.0	mg/kg	1000	ND	88.4	70-130			
Residual Range Organics (C28-C40)	955	200	"	1000	ND	95.5	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D2538 - EPA 3550B										
Matrix Spike Dup (B4D2538-MSD1)					Source: Y404712-01					Prepared: 04/25/2024 Analyzed: 05/03/2024
Diesel (C10-C28)	798	50.0	mg/kg	1000	ND	79.8	70-130	10.3	35	
Residual Range Organics (C28-C40)	888	200	"	1000	ND	88.8	70-130	7.24	35	
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2555 - EPA 5030 (soil)

Blank (B4D2555-BLK1)

Prepared: 04/25/2024 Analyzed: 05/01/2024

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		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	70-130			

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2555 - EPA 5030 (soil)

LCS (B4D2555-BS1)

Prepared: 04/25/2024 Analyzed: 05/01/2024

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.118	0.00380	"	0.100		118	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.223	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2555 - EPA 5030 (soil)

Matrix Spike (B4D2555-MS1)	Source: Y404711-01			Prepared: 04/25/2024 Analyzed: 05/01/2024						
1,2,4-Trimethylbenzene	0.0823	0.00200	mg/kg	0.100	ND	82.3	70-130			
1,3,5-Trimethylbenzene	0.0857	0.00200	"	0.100	ND	85.7	70-130			
Benzene	0.0792	0.00200	"	0.100	ND	79.2	70-130			
Ethylbenzene	0.0808	0.00200	"	0.100	ND	80.8	70-130			
Naphthalene	0.0728	0.00380	"	0.100	ND	72.8	70-130			
Toluene	0.0745	0.00200	"	0.100	ND	74.5	70-130			
o-Xylene	0.0819	0.00200	"	0.100	ND	81.9	70-130			
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2555 - EPA 5030 (soil)

Matrix Spike Dup (B4D2555-MSD1)	Source: Y404711-01			Prepared: 04/25/2024 Analyzed: 05/01/2024						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130	22.1	20	QR-02
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	20.6	20	QR-02
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	24.0	20	QR-02
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	23.9	20	QR-02
Naphthalene	0.0985	0.00380	"	0.100	ND	98.5	70-130	30.1	20	QR-02
Toluene	0.0978	0.00200	"	0.100	ND	97.8	70-130	27.1	20	QR-02
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	22.3	20	QR-02
m,p-Xylene	0.206	0.00400	"	0.200	ND	103	70-130	23.1	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2526 - EPA 3050B

Blank (B4D2526-BLK1)

Prepared: 04/25/2024 Analyzed: 04/29/2024

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 (B4D2526-BS1)

Prepared: 04/25/2024 Analyzed: 04/29/2024

Arsenic	5.86	0.290	mg/kg	5.00		117	80-120			
Barium	535	10.0	"	500		107	80-120			
Cadmium	5.51	0.100	"	5.00		110	80-120			
Copper	57.2	10.0	"	50.0		114	80-120			
Lead	5.64	1.00	"	5.00		113	80-120			
Nickel	5.67	1.00	"	5.00		113	80-120			
Selenium	11.1	0.260	"	9.50		116	80-120			
Silver	5.66	0.100	"	5.00		113	80-120			
Zinc	58.0	37.0	"	50.0		116	80-120			

Matrix Spike (B4D2526-MS1)

Source: Y404712-01

Prepared: 04/25/2024 Analyzed: 04/29/2024

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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2526 - EPA 3050B

Matrix Spike (B4D2526-MS1)		Source: Y404712-01			Prepared: 04/25/2024 Analyzed: 04/29/2024					
Arsenic	9.71	0.282	mg/kg	4.87	5.03	96.0	75-125			
Barium	616	9.73	"	487	95.4	107	75-125			
Cadmium	6.13	0.0973	"	4.87	0.304	120	75-125			
Copper	69.8	9.73	"	48.7	11.6	120	75-125			
Lead	15.4	0.973	"	4.87	9.30	125	75-125			
Nickel	19.4	0.973	"	4.87	10.0	192	75-125			QM-07
Selenium	11.2	0.253	"	9.24	0.293	118	75-125			
Silver	5.74	0.0973	"	4.87	0.106	116	75-125			
Zinc	103	36.0	"	48.7	51.2	106	75-125			

Matrix Spike Dup (B4D2526-MSD1)		Source: Y404712-01			Prepared: 04/25/2024 Analyzed: 04/29/2024					
Arsenic	9.95	0.276	mg/kg	4.76	5.03	103	75-125	2.50	20	
Barium	599	9.51	"	476	95.4	106	75-125	2.75	20	
Cadmium	5.93	0.0951	"	4.76	0.304	118	75-125	3.25	20	
Copper	67.9	9.51	"	47.6	11.6	119	75-125	2.74	20	
Lead	14.5	0.951	"	4.76	9.30	108	75-125	6.15	20	
Nickel	16.0	0.951	"	4.76	10.0	124	75-125	19.4	20	
Selenium	9.96	0.247	"	9.04	0.293	107	75-125	11.6	20	
Silver	5.74	0.0951	"	4.76	0.106	118	75-125	0.0774	20	
Zinc	105	35.2	"	47.6	51.2	113	75-125	2.09	20	

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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2544 - EPA 3580

Blank (B4D2544-BLK1)

Prepared: 04/25/2024 Analyzed: 05/03/2024

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		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

LCS (B4D2544-BS1)

Prepared: 04/25/2024 Analyzed: 05/03/2024

1-Methylnaphthalene	0.219	0.002	mg/kg	0.200		109	70-130			
2-Methylnaphthalene	0.219	0.002	"	0.200		110	70-130			
Acenaphthene	0.221	0.020	"	0.200		110	70-130			
Anthracene	0.216	0.020	"	0.200		108	70-130			

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2544 - EPA 3580

LCS (B4D2544-BS1)

Prepared: 04/25/2024 Analyzed: 05/03/2024

Benzo (a) anthracene	0.231	0.005	mg/kg	0.200		116	70-130			
Benzo (a) pyrene	0.222	0.020	"	0.200		111	70-130			
Benzo (b) fluoranthene	0.229	0.020	"	0.200		115	70-130			
Benzo (g,h,i) perylene	0.226	0.020	"	0.200		113	70-130			
Benzo (k) fluoranthene	0.202	0.020	"	0.200		101	70-130			
Chrysene	0.235	0.020	"	0.200		117	70-130			
Dibenz (a,h) anthracene	0.236	0.020	"	0.200		118	70-130			
Fluoranthene	0.209	0.020	"	0.200		105	70-130			
Fluorene	0.226	0.020	"	0.200		113	70-130			
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200		108	70-130			
Naphthalene	0.224	0.002	"	0.200		112	70-130			
Phenanthrene	0.223	0.020	"	0.200		112	70-130			
Pyrene	0.236	0.020	"	0.200		118	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		96.1	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike (B4D2544-MS1)

Source: Y404641-01

Prepared: 04/25/2024 Analyzed: 05/03/2024

1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	ND	105	70-130			
2-Methylnaphthalene	0.209	0.002	"	0.200	ND	104	70-130			
Acenaphthene	0.213	0.020	"	0.200	ND	106	70-130			
Anthracene	0.207	0.020	"	0.200	ND	103	70-130			
Benzo (a) anthracene	0.204	0.005	"	0.200	ND	102	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200	ND	107	70-130			
Benzo (b) fluoranthene	0.218	0.020	"	0.200	0.0007	108	70-130			
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	0.0008	106	70-130			

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2544 - EPA 3580

Matrix Spike (B4D2544-MS1)		Source: Y404641-01			Prepared: 04/25/2024 Analyzed: 05/03/2024					
Benzo (k) fluoranthene	0.199	0.020	mg/kg	0.200	0.001	98.8	70-130			
Chrysene	0.219	0.020	"	0.200	0.0006	109	70-130			
Dibenz (a,h) anthracene	0.220	0.020	"	0.200	ND	110	70-130			
Fluoranthene	0.203	0.020	"	0.200	0.0006	101	70-130			
Fluorene	0.218	0.020	"	0.200	ND	109	70-130			
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	0.002	102	70-130			
Naphthalene	0.215	0.002	"	0.200	ND	107	70-130			
Phenanthrene	0.212	0.020	"	0.200	ND	106	70-130			
Pyrene	0.205	0.020	"	0.200	0.0007	102	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		95.8	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B4D2544-MSD1)		Source: Y404641-01			Prepared: 04/25/2024 Analyzed: 05/03/2024					
1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	99.8	70-130	4.79	20	
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	99.8	70-130	4.62	20	
Acenaphthene	0.201	0.020	"	0.200	ND	100	70-130	5.97	20	
Anthracene	0.199	0.020	"	0.200	ND	99.5	70-130	3.74	20	
Benzo (a) anthracene	0.193	0.005	"	0.200	ND	96.6	70-130	5.33	20	
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	100	70-130	6.39	20	
Benzo (b) fluoranthene	0.195	0.020	"	0.200	0.0007	96.9	70-130	11.2	20	
Benzo (g,h,i) perylene	0.187	0.020	"	0.200	0.0008	93.1	70-130	12.7	20	
Benzo (k) fluoranthene	0.185	0.020	"	0.200	0.001	92.1	70-130	7.06	20	
Chrysene	0.199	0.020	"	0.200	0.0006	99.1	70-130	9.55	20	
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	99.9	70-130	9.63	20	
Fluoranthene	0.192	0.020	"	0.200	0.0006	95.7	70-130	5.67	20	

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2544 - EPA 3580

Matrix Spike Dup (B4D2544-MSD1)	Source: Y404641-01			Prepared: 04/25/2024 Analyzed: 05/03/2024						
Fluorene	0.205	0.020	mg/kg	0.200	ND	103	70-130	5.74	20	
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200	0.002	90.3	70-130	11.6	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	4.96	20	
Phenanthrene	0.202	0.020	"	0.200	ND	101	70-130	4.76	20	
Pyrene	0.193	0.020	"	0.200	0.0007	96.0	70-130	6.04	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		94.6	60-130			
Surrogate: Pyrene-d10	190		"	200		97.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2605 - Saturated Paste Metals

Blank (B4D2605-BLK1)

Prepared: 04/26/2024 Analyzed: 04/29/2024

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 (B4D2605-DUP1)

Source: Y404709-03

Prepared: 04/26/2024 Analyzed: 04/29/2024

Calcium PPM	16.1	10.0	mg/L		18.1			11.8	50	
SAR	ND	0.0100	SAR		0.0589				200	
Magnesium PPM	6.41	10.0	mg/L		7.46			15.1	50	
Sodium PPM	1.46	10.0	"		1.18			21.2	50	

Batch B4D2611 - DTPA Sorbitol Preparation

Blank (B4D2611-BLK1)

Prepared: 04/26/2024 Analyzed: 04/30/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4D2611-DUP1)

Source: Y404708-01

Prepared: 04/26/2024 Analyzed: 04/30/2024

Boron	0.796	0.101	mg/L		0.765			3.94	50	
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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D2615 - Saturated Paste pH/EC										
Blank (B4D2615-BLK1)					Prepared: 04/26/2024 Analyzed: 04/27/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4D2615-DUP1)					Source: Y404709-03 Prepared: 04/26/2024 Analyzed: 04/27/2024					
pH	8.45		pH Units		8.45			0.00	25	
Specific Conductance (EC)	0.219	0.00500	mmhos/cm		0.229			4.55	25	

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Erikson A04-12

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2605446 - SW846 3060A										
BLANK (1205720245-BLK)					Prepared: 05/01/2024 Analyzed: 05/03/2024					
Hexavalent Chromium	ND	0.303	mg/kg				-			U
LCS (1205720246-BKS)					Prepared: 05/01/2024 Analyzed: 05/03/2024					
Hexavalent Chromium	3.16	0.330	mg/kg	3.30		95.8	80-120			
DUP (1205720247 D)					Source: 665009001 Prepared: 05/01/2024 Analyzed: 05/03/2024					
Hexavalent Chromium	ND	0.293	mg/kg dry		0.134		0-50	N/A	50	U
MS (1205720248 S)					Source: 665009001 Prepared: 05/01/2024 Analyzed: 05/03/2024					
Hexavalent Chromium	2.62	0.294	mg/kg dry	2.94	0.134	84.5	75-125			
DUP (1205720249 D)					Source: 665028006 Prepared: 05/01/2024 Analyzed: 05/03/2024					
Hexavalent Chromium	ND	0.336	mg/kg dry		<0.134		0-50	N/A	50	U
MS (1205720250 S)					Source: 665028006 Prepared: 05/01/2024 Analyzed: 05/03/2024					
Hexavalent Chromium	2.55	0.336	mg/kg dry	3.36	<0.134	74.5	75-125			
ILCS (1205720251-ILCS)					Prepared: 05/01/2024 Analyzed: 05/03/2024					
Hexavalent Chromium	6.85	0.329	mg/kg	6.78		101	80-120			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Erikson A04-12

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.