

ORIGINS LABORATORY

Entrada Consulting Group

Chelsea Verysen

330 Grand Ave. Unit C

Grand Junction CO 81501

September 19, 2024

Project Name - Chevron - NEI C18-32D

Project Number - [none]

Attached are your analytical results for Chevron - NEI C18-32D received by Origins Laboratory August 15, 2024. This project is associated with Origins project number Y408424-04.

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 - NEI C18-32D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01-W@4	Y408424-04	Soil	August 15, 2024 11:15	08/15/2024 17:20

Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - NEI C18-32D

URIGINS
 LABORATORY INC
 Client: Entrada
 Project Manager: Chelsea Veryser
 Project Name: NEI C18-32D
 Project Number: 4408424
 Key: W=Water
 W=Water
 G1=Cyanide
 W=Surface Water
 W1=Waste Water

Telephone Number: 970 244 7703
 Email Address: Entada Distribution (C:\Mail\entada@entadainc.com)
 Collected By: Bill & Dawn (Entada)
 Invoice Billing Info: Bill & Dawn (Entada)
 S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | W=Water | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix Preservative	Analysis		Comments
						W	L	
1	W101-01	8/15/24	11:00	2	W10	✓	✓	W10
2	W101-02	8/15/24	11:05	1	W10	✓	✓	W10
3	W101-03	8/15/24	11:10	1	W10	✓	✓	W10
4	W101-04	8/15/24	11:15	1	W10	✓	✓	W10
5	W101-05	8/15/24	11:20	1	W10	✓	✓	W10
6								
7								
8								
9								
10								

Requisitioned By: [Signature] Date: 8/15/24 Time: 14:10
 Received By: [Signature] Date: 8/15/24 Time: 15:45
 Requisitioned By: [Signature] Date: 8/15/24 Time: 17:00
 Received By: [Signature] Date: 8/15/24 Time: 17:00

Origins Laboratory

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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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


Sample Receipt Checklist

Origins Work Order: 4100424 Client: Entrada
 Checklist Completed by: [Signature] Client Project ID: NEI C18-32D
 Date/Time Completed: 3/10/24 Shipped Via: TU
 Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 AS °C / _____ °C / _____ °C (Describe) _____ °C
 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"/>			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>			
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) - preservation is not confirmed for subcooled analytes in order to insure sample integrity (pH < 3 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ /NaOH, ZnAc/NaOH)	<input checked="" type="checkbox"/>			
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 3/10/24

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Entrada Consulting Group
330 Grand Ave. Unit C
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Chelsea Verysen
Project Number: [none]
Project: Chevron - NEI C18-32D

WH01-W@4

8/15/2024 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory Y408424-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.159	0.0999	mg/L	1	B4H1917	08/19/2024	08/20/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	72.8	25.0	mg/kg	1	B4H1902	08/19/2024	08/20/2024	
Residual Range Organics (C28-C40)	207	100	"	"	"	"	"	

Surrogate: o-Terphenyl	66.7%	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H1641	08/16/2024	08/21/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	104%	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	109%	70-130	"	"	"	"	"	

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Chelsea Verysen
Project Number: [none]
Project: Chevron - NEI C18-32D

WH01-W@4

8/15/2024 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory Y408424-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	102 %	70-130	B4H16 41	08/16/2024	08/21/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.18	0.499	meq/L	10	[CALC]	08/19/2024	08/20/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.11	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H1952	08/19/2024	08/21/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

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WH01-W@4

8/15/2024 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408424-04 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4H1952	08/19/2024	08/21/2024	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.0 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	96.1 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.56	pH Units	1	B4H1927	08/19/2024	08/20/2024
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SAR by 20B Saturated Paste

SAR	1.14	0.0100	SAR	1	B4H1920	08/19/2024	08/20/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.337	0.00500	mmhos/cm	1	B4H1927	08/19/2024	08/20/2024
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Table 915 metals by EPA 6020B

Arsenic	5.90	0.284	mg/kg	10	B4H1656	08/16/2024	08/20/2024
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 Grand Junction CO 81501

Chelsea Verysen
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 Project: Chevron - NEI C18-32D

WH01-W@4

8/15/2024 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
Y408424-04 (Soil)

Table 915 metals by EPA 6020B

Barium	291		9.80	mg/kg	10	B4H1656	08/16/2024	08/20/2024	
Cadmium	0.254		0.0980	"	"	"	"	"	"
Copper	17.1		9.80	"	"	"	"	"	"
Lead	13.6		0.980	"	"	"	"	"	"
Nickel	17.7		0.980	"	"	"	"	"	"
Selenium	0.260		0.255	"	"	"	"	"	"
Silver	ND		0.0980	"	"	"	"	"	"
Zinc	64.3		36.2	"	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.108	0.270	mg/kg dry	1	2668374	09/12/2024	09/18/2024	U
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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1641 - EPA 5030 (soil)

Blank (B4H1641-BLK1)

Prepared: 08/16/2024 Analyzed: 08/19/2024

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	0.11		"	0.125		90.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1641 - EPA 5030 (soil)

LCS (B4H1641-BS1)

Prepared: 08/16/2024 Analyzed: 08/19/2024

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Benzene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.227	0.00400	"	0.200		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.6	70-130			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1641 - EPA 5030 (soil)

Matrix Spike (B4H1641-MS1)

Source: Y408409-02

Prepared: 08/16/2024 Analyzed: 08/19/2024

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	0.0250	88.4	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	0.0149	97.1	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.0961	0.00200	"	0.100	0.00172	94.4	70-130			
Naphthalene	0.0977	0.00380	"	0.100	0.0114	86.3	70-130			
Toluene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
o-Xylene	0.103	0.00200	"	0.100	0.00984	92.8	70-130			
m,p-Xylene	0.212	0.00400	"	0.200	0.0338	89.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	70-130			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1641 - EPA 5030 (soil)

Matrix Spike Dup (B4H1641-MSD1)

Source: Y408409-02

Prepared: 08/16/2024 Analyzed: 08/19/2024

1,2,4-Trimethylbenzene	0.126	0.00200	mg/kg	0.100	0.0250	101	70-130	10.5	20	
1,3,5-Trimethylbenzene	0.123	0.00200	"	0.100	0.0149	108	70-130	9.05	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	2.79	20	
Ethylbenzene	0.103	0.00200	"	0.100	0.00172	102	70-130	7.32	20	
Naphthalene	0.108	0.00380	"	0.100	0.0114	96.9	70-130	10.3	20	
Toluene	0.0951	0.00200	"	0.100	ND	95.1	70-130	1.83	20	
o-Xylene	0.111	0.00200	"	0.100	0.00984	101	70-130	7.66	20	
m,p-Xylene	0.232	0.00400	"	0.200	0.0338	99.3	70-130	9.07	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1902 - EPA 3550B

Prepared: 08/19/2024 Analyzed: 08/20/2024

Blank (B4H1902-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	17		"	24.9		68.5	50-150			

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Entrada Consulting Group
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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1902 - EPA 3550B

LCS (B4H1902-BS1)

Prepared: 08/19/2024 Analyzed: 08/20/2024

Diesel (C10-C28)	869	50.0	mg/kg	1000		86.9	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.9	50-150			

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Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1902 - EPA 3550B

Matrix Spike (B4H1902-MS1)

Source: Y408409-01

Prepared: 08/19/2024 Analyzed: 08/20/2024

Diesel (C10-C28)	1640	50.0	mg/kg	1000	1070	57.4	70-130			QM-07
Residual Range Organics (C28-C40)	964	200	"	1000	ND	96.4	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.6	50-150			

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Chelsea Verysen
 Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4H1902 - EPA 3550B

Matrix Spike Dup (B4H1902-MSD1)

Source: Y408409-01

Prepared: 08/19/2024 Analyzed: 08/20/2024

Diesel (C10-C28)	1740	50.0	mg/kg	1000	1070	66.8	70-130	5.59	35	QM-07
Residual Range Organics (C28-C40)	990	200	"	1000	ND	99.0	70-130	2.61	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1656 - EPA 3050B

Blank (B4H1656-BLK1)

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

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 (B4H1656-BS1)

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

Arsenic	5.11	0.290	mg/kg	5.00		102	80-120			
Barium	490	10.0	"	500		98.1	80-120			
Cadmium	5.02	0.100	"	5.00		100	80-120			
Copper	51.2	10.0	"	50.0		102	80-120			
Lead	5.24	1.00	"	5.00		105	80-120			
Nickel	5.14	1.00	"	5.00		103	80-120			
Selenium	4.78	0.260	"	5.00		95.6	80-120			
Silver	5.11	0.100	"	5.00		102	80-120			
Zinc	50.3	37.0	"	50.0		101	80-120			

Matrix Spike (B4H1656-MS1)

Source: Y408422-01

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

Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1656 - EPA 3050B

Matrix Spike (B4H1656-MS1)

Source: Y408422-01

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

Arsenic	9.04	0.266	mg/kg	4.59	4.73	94.0	75-125			
Barium	613	9.18	"	459	197	90.6	75-125			
Cadmium	4.64	0.0918	"	4.59	0.201	96.6	75-125			
Copper	57.3	9.18	"	45.9	14.1	94.1	75-125			
Lead	14.7	0.918	"	4.59	12.5	48.9	75-125			QM-07
Nickel	17.0	0.918	"	4.59	14.1	64.1	75-125			QM-07
Selenium	4.52	0.239	"	4.59	0.162	95.0	75-125			
Silver	4.67	0.0918	"	4.59	0.0519	101	75-125			
Zinc	89.7	34.0	"	45.9	54.3	77.0	75-125			

Matrix Spike Dup (B4H1656-MSD1)

Source: Y408422-01

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

Arsenic	9.30	0.266	mg/kg	4.59	4.73	99.6	75-125	2.82	20	
Barium	680	9.18	"	459	197	105	75-125	10.4	20	
Cadmium	4.77	0.0918	"	4.59	0.201	99.5	75-125	2.75	20	
Copper	58.6	9.18	"	45.9	14.1	97.1	75-125	2.39	20	
Lead	15.3	0.918	"	4.59	12.5	62.4	75-125	4.14	20	QM-07
Nickel	16.9	0.918	"	4.59	14.1	61.5	75-125	0.705	20	QM-07
Selenium	4.67	0.239	"	4.59	0.162	98.2	75-125	3.16	20	
Silver	4.72	0.0918	"	4.59	0.0519	102	75-125	1.04	20	
Zinc	90.7	34.0	"	45.9	54.3	79.3	75-125	1.16	20	

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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1952 - EPA 3580

Prepared: 08/19/2024 Analyzed: 08/21/2024

Blank (B4H1952-BLK1)

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		97.7	60-130			
Surrogate: Anthracene-d10	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B4H1952-BS1)

Prepared: 08/19/2024 Analyzed: 08/21/2024

1-Methylnaphthalene	0.173	0.002	mg/kg	0.200		86.5	70-130			
2-Methylnaphthalene	0.174	0.002	"	0.200		86.8	70-130			
Acenaphthene	0.186	0.020	"	0.200		93.1	70-130			
Anthracene	0.172	0.020	"	0.200		85.8	70-130			

Origins Laboratory

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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1952 - EPA 3580

LCS (B4H1952-BS1)

Prepared: 08/19/2024 Analyzed: 08/21/2024

Benzo (a) anthracene	0.193	0.005	mg/kg	0.200		96.7	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200		95.8	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200		94.3	70-130			
Benzo (g,h,i) perylene	0.186	0.020	"	0.200		92.8	70-130			
Benzo (k) fluoranthene	0.184	0.020	"	0.200		92.0	70-130			
Chrysene	0.192	0.020	"	0.200		95.8	70-130			
Dibenz (a,h) anthracene	0.181	0.020	"	0.200		90.6	70-130			
Fluoranthene	0.204	0.020	"	0.200		102	70-130			
Fluorene	0.185	0.020	"	0.200		92.4	70-130			
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200		91.4	70-130			
Naphthalene	0.189	0.002	"	0.200		94.6	70-130			
Phenanthrene	0.180	0.020	"	0.200		90.2	70-130			
Pyrene	0.199	0.020	"	0.200		99.3	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		98.4	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4H1952-MS1)

Source: Y408420-01

Prepared: 08/19/2024 Analyzed: 08/21/2024

1-Methylnaphthalene	0.164	0.002	mg/kg	0.200	ND	82.1	70-130			
2-Methylnaphthalene	0.165	0.002	"	0.200	0.002	81.3	70-130			
Acenaphthene	0.184	0.020	"	0.200	0.003	90.8	70-130			
Anthracene	0.169	0.020	"	0.200	0.010	79.3	70-130			
Benzo (a) anthracene	0.226	0.005	"	0.200	0.061	82.1	70-130			
Benzo (a) pyrene	0.231	0.020	"	0.200	0.073	79.2	70-130			
Benzo (b) fluoranthene	0.229	0.020	"	0.200	0.074	77.5	70-130			
Benzo (g,h,i) perylene	0.316	0.020	"	0.200	0.139	88.4	70-130			

Origins Laboratory

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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1952 - EPA 3580

Matrix Spike (B4H1952-MS1)

Source: Y408420-01

Prepared: 08/19/2024 Analyzed: 08/21/2024

Benzo (k) fluoranthene	0.212	0.020	mg/kg	0.200	0.039	86.8	70-130			
Chrysene	0.258	0.020	"	0.200	0.070	93.8	70-130			
Dibenz (a,h) anthracene	0.210	0.020	"	0.200	0.017	96.6	70-130			
Fluoranthene	0.264	0.020	"	0.200	0.124	70.3	70-130			
Fluorene	0.194	0.020	"	0.200	0.004	94.8	70-130			
Indeno (1,2,3-cd) pyrene	0.248	0.020	"	0.200	0.074	87.1	70-130			
Naphthalene	0.184	0.002	"	0.200	ND	91.8	70-130			
Phenanthrene	0.194	0.020	"	0.200	0.041	76.3	70-130			
Pyrene	0.245	0.020	"	0.200	0.096	74.2	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		92.5	60-130			

Matrix Spike Dup (B4H1952-MSD1)

Source: Y408420-01

Prepared: 08/19/2024 Analyzed: 08/21/2024

1-Methylnaphthalene	0.165	0.002	mg/kg	0.200	ND	82.7	70-130	0.719	20	
2-Methylnaphthalene	0.166	0.002	"	0.200	0.002	81.9	70-130	0.780	20	
Acenaphthene	0.184	0.020	"	0.200	0.003	90.7	70-130	0.100	20	
Anthracene	0.182	0.020	"	0.200	0.010	86.0	70-130	7.69	20	
Benzo (a) anthracene	0.259	0.005	"	0.200	0.061	98.8	70-130	13.8	20	
Benzo (a) pyrene	0.257	0.020	"	0.200	0.073	91.9	70-130	10.4	20	
Benzo (b) fluoranthene	0.249	0.020	"	0.200	0.074	87.7	70-130	8.55	20	
Benzo (g,h,i) perylene	0.334	0.020	"	0.200	0.139	97.2	70-130	5.39	20	
Benzo (k) fluoranthene	0.247	0.020	"	0.200	0.039	104	70-130	15.2	20	
Chrysene	0.292	0.020	"	0.200	0.070	111	70-130	12.4	20	
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	0.017	102	70-130	5.31	20	
Fluoranthene	0.356	0.020	"	0.200	0.124	116	70-130	29.7	20	QM-07

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 - NEI C18-32D

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 B4H1952 - EPA 3580

Matrix Spike Dup (B4H1952-MSD1)

Source: Y408420-01

Prepared: 08/19/2024 Analyzed: 08/21/2024

Fluorene	0.185	0.020	mg/kg	0.200	0.004	90.4	70-130	4.61	20	
Indeno (1,2,3-cd) pyrene	0.260	0.020	"	0.200	0.074	93.1	70-130	4.66	20	
Naphthalene	0.183	0.002	"	0.200	ND	91.4	70-130	0.458	20	
Phenanthrene	0.234	0.020	"	0.200	0.041	96.5	70-130	18.9	20	
Pyrene	0.314	0.020	"	0.200	0.096	109	70-130	24.7	20	QM-07
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	200		"	200		97.5	60-130			
Surrogate: Pyrene-d10	200		"	200		98.7	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.7	60-130			

Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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 B4H1917 - DTPA Sorbitol Preparation

Prepared: 08/19/2024 Analyzed: 08/20/2024

Blank (B4H1917-BLK1)

Boron ND 0.100 mg/L

Duplicate (B4H1917-DUP1)

Source: Y408292-01

Prepared: 08/19/2024 Analyzed: 08/20/2024

Boron ND 0.987 mg/L

ND 50

Batch B4H1920 - Saturated Paste Metals

Blank (B4H1920-BLK1)

Prepared: 08/19/2024 Analyzed: 08/20/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4H1920-DUP1)

Source: Y408424-04

Prepared: 08/19/2024 Analyzed: 08/20/2024

Calcium PPM 24.0 10.0 mg/L

23.6 1.51 50

SAR ND 0.0100 SAR

1.14 200

Magnesium PPM 8.26 10.0 mg/L

8.80 6.33 50

Sodium PPM 22.2 10.0 "

25.5 13.9 50

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 - NEI C18-32D

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 B4H1927 - Saturated Paste pH/EC

Blank (B4H1927-BLK1)

Prepared: 08/19/2024 Analyzed: 08/21/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4H1927-DUP1)

Source: Y408424-04

Prepared: 08/19/2024 Analyzed: 08/20/2024

Specific Conductance (EC) 0.326 0.00500 mmhos/cm 0.337 3.35 25

pH 8.60 pH Units 8.56 0.466 25

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

Chelsea Verysen
 Project Number: [none]
 Project: Chevron - NEI C18-32D

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
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Batch 2668374 - SW846 3060A

Prepared: 09/12/2024 Analyzed: 09/18/2024

BLANK (1205846810-BLK)

Hexavalent Chromium	ND	0.244	mg/kg							U
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LCS (1205846811-BKS)

Prepared: 09/12/2024 Analyzed: 09/18/2024

Hexavalent Chromium	3.16	0.320	mg/kg	3.20		98.8	80-120			
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DUP (1205846812 D)

Source: 681754001

Prepared: 09/12/2024 Analyzed: 09/18/2024

Hexavalent Chromium	ND	0.361	mg/kg dry		<0.144		0-50	N/A	50	U
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MS (1205846813 S)

Source: 681754001

Prepared: 09/12/2024 Analyzed: 09/18/2024

Hexavalent Chromium	2.84	0.361	mg/kg dry	3.61	<0.144	78.6	75-125			
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DUP (1205846814 D)

Source: 681754002

Prepared: 09/12/2024 Analyzed: 09/18/2024

Hexavalent Chromium	ND	0.405	mg/kg dry		<0.162		0-50	N/A	50	U
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MS (1205846815 S)

Source: 681754002

Prepared: 09/12/2024 Analyzed: 09/18/2024

Hexavalent Chromium	3.20	0.405	mg/kg dry	4.05	<0.162	78.6	75-125			
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ILCS (1205846816-ILCS)

Prepared: 09/12/2024 Analyzed: 09/18/2024

Hexavalent Chromium	6.21	0.292	mg/kg	5.87		106	80-120			
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Jordan A. Bynon For Jen Pellegrini, Project Manager

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - NEI C18-32D

Notes and Definitions

- Ua Sample is Non-Detect.
 - U Result not detected above the detection limit
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory



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