



Fremont Environmental  
Paul Henehan  
8305 6th St, PO Box 1289

September 23, 2024

Wellington CO 80549

Project Name - Chevron - Wells Ranch BB03

Project Number - [none]

Attached are your analytical results for Chevron - Wells Ranch BB03 received by Origins Laboratory August 01, 2024. This project is associated with Origins project number Y408075-01.

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

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

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

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

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

Origins Laboratory  
303.433.1322  
projectmanager@originslab.com



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

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01	Y408075-01	Soil	July 31, 2024 0:00	08/01/2024 17:30
SS-02	Y408075-02	Soil	July 31, 2024 0:00	08/01/2024 17:30
SS-03	Y408075-03	Soil	July 31, 2024 0:00	08/01/2024 17:30
SS-04	Y408075-04	Soil	July 31, 2024 0:00	08/01/2024 17:30
SS-05	Y408075-05	Soil	July 31, 2024 0:00	08/01/2024 17:30
SS-06	Y408075-06	Soil	July 31, 2024 0:00	08/01/2024 17:30
FS-01	Y408075-07	Soil	July 31, 2024 0:00	08/01/2024 17:30
FS-02	Y408075-08	Soil	July 31, 2024 0:00	08/01/2024 17:30
FS-03	Y408075-09	Soil	July 31, 2024 0:00	08/01/2024 17:30
FS-04	Y408075-10	Soil	July 31, 2024 0:00	08/01/2024 17:30

Origins Laboratory



Jen Pellegrini, Project Manager

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

Client: Fremont/Chevron  
 Address: \_\_\_\_\_  
 Project Manager: Henehan  
 Key: \_\_\_\_\_

Project Name: Wells Ranch BB03  
 Project Number: \_\_\_\_\_  
 Project Manager: Henehan  
 Key: \_\_\_\_\_

Telephone Number: \_\_\_\_\_  
 Email Address: \_\_\_\_\_  
 Collected By: Henehan  
 Invoice/Billing Info: \_\_\_\_\_  
 W-Waste Water  
 W-Waste Water  
 W-Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNF=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide  
 L=Liquid

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis				Comments	
1	SS-01	7/31/24	1640	✓	2	Soil	None						
2	SS-02												
3	SS-03												
4	SS-04												
5	SS-05												
6	SS-06												
7	FS-01												
8	FS-01												
9	FS-09												
10	FS-04												

Relinquished By: [Signature] Date: 7/31/24 Time: 1640  
 Received By: [Signature] Date: 8/1/24 Time: 1820  
 Turnaround Time:  SAME DAY  24 Hr  48 Hr  72 Hr  
 Temp Received: 3 Received On Ice?  Yes  No

*Jefe Pellegrini*

Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 407075

Client: Fremont  
 Client Project ID: Wells Ranch BB03

Checklist Completed by: JM/LSH  
 Date/time completed: 8/2/12

Shipped Via: TWO  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: L13 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 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 <sup>(1)</sup> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	/	/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	/	/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	/	/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			No times
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	/		/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) * (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with Na <sub>2</sub> CO <sub>3</sub> +NaOH, ZnAc+NaOH)	/		/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) AS Date/Time Reviewed 8/5/12

Origins Laboratory



Jen Pellegrini, Project Manager

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-01**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.221		0.101	mg/L	1	B4H0507	08/05/2024	08/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	440		25.0	mg/kg	1	B4H0252	08/02/2024	08/07/2024	
Residual Range Organics (C28-C40)	352		100	"	"	"	"	"	

Surrogate: o-Terphenyl	101 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H0245	08/02/2024	08/04/2024	Ua
1,3,5-Trimethylbenzene	0.0417		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	0.00288		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	9.07		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	105 %		70-130			"	"	"	

Origins Laboratory



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 Project Number: [none]  
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**SS-01**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	113 %		70-130			B4H02 45	08/02/2024	08/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	4.64		0.499	meq/L	10	[CALC]	08/05/2024	08/07/2024	
Magnesium	1.84		0.823	"	"	"	"	"	
Sodium	5.14		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.246		0.002	mg/kg	1	B4H0230	08/02/2024	08/07/2024	
2-Methylnaphthalene	0.084		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	0.022		0.020	"	"	"	"	"	
Benzo (a) anthracene	0.019		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	0.033		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	0.035		0.020	"	"	"	"	"	
Fluorene	0.115		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua

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**SS-01**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-01 (Soil)**

**PAH by EPA 8270E**

Naphthalene	ND		0.002	mg/kg	1	B4H0230	08/02/2024	08/07/2024	Ua
Pyrene	<b>0.040</b>		0.020	"	"	"	"	"	

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

**pH in Soil by 9045D**

pH	<b>8.43</b>			pH Units	1	B4H0521	08/05/2024	08/06/2024	
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**SAR by 20B Saturated Paste**

SAR	<b>2.86</b>		0.0100	SAR	1	B4H0514	08/05/2024	08/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>1.06</b>		0.00500	mmhos/cm	1	B4H0521	08/05/2024	08/06/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	<b>2.69</b>		0.243	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Barium	<b>91.4</b>		8.38	"	"	"	"	"	

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**SS-01**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-01 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.0854		0.0838	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Copper	ND		8.38	"	"	"	"	"	Ua
Lead	5.83		0.838	"	"	"	"	"	
Nickel	4.81		0.838	"	"	"	"	"	
Selenium	ND		0.218	"	"	"	"	"	Ua
Silver	ND		0.0838	"	"	"	"	"	Ua
Zinc	ND		31.0	"	"	"	"	"	Ua

**Total Metals 7196A**

Hexavalent Chromium	ND	0.179	0.448	mg/kg dry	1	2665175	08/30/2024	09/05/2024	U
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Origins Laboratory



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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-02**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4H0507	08/05/2024	08/08/2024	Ua
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H0252	08/02/2024	08/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	97.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H0245	08/02/2024	08/04/2024	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	109 %		70-130			"	"	"	
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-02**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.4 %		70-130			B4H02 45	08/02/2024	08/04/2024	
Surrogate: 4-Bromofluorobenzene	113 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.516		0.499	meq/L	10	[CALC]	08/05/2024	08/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H0230	08/02/2024	08/07/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-02**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-02 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4H0230	08/02/2024	08/07/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.90			pH Units	1	B4H0521	08/05/2024	08/06/2024	
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**SAR by 20B Saturated Paste**

SAR	0.397		0.0100	SAR	1	B4H0514	08/05/2024	08/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.124		0.00500	mmhos/cm	1	B4H0521	08/05/2024	08/06/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory



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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-02**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-02 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.14		0.252	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Barium	22.9		8.69	"	"	"	"	"	
Cadmium	0.0930		0.0869	"	"	"	"	"	
Copper	ND		8.69	"	"	"	"	"	Ua
Lead	3.89		0.869	"	"	"	"	"	
Nickel	2.35		0.869	"	"	"	"	"	
Selenium	ND		0.226	"	"	"	"	"	Ua
Silver	ND		0.0869	"	"	"	"	"	Ua
Zinc	ND		32.2	"	"	"	"	"	Ua

**Total Metals 7196A**

Hexavalent Chromium	ND	0.139	0.348	mg/kg dry	1	2665175	08/30/2024	09/05/2024	U
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Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**SS-03**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0993	mg/L	1	B4H0507	08/05/2024	08/08/2024	Ua
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H0252	08/02/2024	08/07/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	96.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H0245	08/02/2024	08/04/2024	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	109 %		70-130			"	"	"	
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Origins Laboratory



Jen Pellegrini, Project Manager

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-03**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.8 %		70-130			B4H02 45	08/02/2024	08/04/2024	
Surrogate: 4-Bromofluorobenzene	113 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.08		0.499	meq/L	10	[CALC]	08/05/2024	08/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.440		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H0230	08/02/2024	08/07/2024	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



Jen Pellegrini, Project Manager

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**SS-03**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-03 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4H0230	08/02/2024	08/07/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.61			pH Units	1	B4H0521	08/05/2024	08/06/2024	
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**SAR by 20B Saturated Paste**

SAR	0.518		0.0100	SAR	1	B4H0514	08/05/2024	08/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.288		0.00500	mmhos/cm	1	B4H0521	08/05/2024	08/06/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory



Jen Pellegrini, Project Manager

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-03**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.83		0.271	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Barium	41.9		9.35	"	"	"	"	"	
Cadmium	ND		0.0935	"	"	"	"	"	Ua
Copper	ND		9.35	"	"	"	"	"	Ua
Lead	3.30		0.935	"	"	"	"	"	
Nickel	2.70		0.935	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	Ua
Silver	ND		0.0935	"	"	"	"	"	Ua
Zinc	ND		34.6	"	"	"	"	"	Ua

**Total Metals 7196A**

Hexavalent Chromium	ND	0.156	0.389	mg/kg dry	1	2665175	08/30/2024	09/05/2024	U
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Origins Laboratory



Jen Pellegrini, Project Manager

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 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-04**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4H0507	08/05/2024	08/08/2024	Ua
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H0501	08/05/2024	08/08/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	86.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H0245	08/02/2024	08/04/2024	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	109 %		70-130			"	"	"	
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Origins Laboratory



Jen Pellegrini, Project Manager

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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-04**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.9 %		70-130			B4H02 45	08/02/2024	08/04/2024	
Surrogate: 4-Bromofluorobenzene	114 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.34		0.499	meq/L	10	[CALC]	08/05/2024	08/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.25		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H0230	08/02/2024	08/07/2024	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



Jen Pellegrini, Project Manager

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-04**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-04 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4H0230	08/02/2024	08/07/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.2 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.34			pH Units	1	B4H0521	08/05/2024	08/06/2024	
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**SAR by 20B Saturated Paste**

SAR	1.00		0.0100	SAR	1	B4H0514	08/05/2024	08/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.466		0.00500	mmhos/cm	1	B4H0521	08/05/2024	08/06/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory



Jen Pellegrini, Project Manager

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-04**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-04 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.35		0.261	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Barium	43.0		9.00	"	"	"	"	"	
Cadmium	ND		0.0900	"	"	"	"	"	Ua
Copper	ND		9.00	"	"	"	"	"	Ua
Lead	3.51		0.900	"	"	"	"	"	
Nickel	3.13		0.900	"	"	"	"	"	
Selenium	ND		0.234	"	"	"	"	"	Ua
Silver	ND		0.0900	"	"	"	"	"	Ua
Zinc	ND		33.3	"	"	"	"	"	Ua

**Total Metals 7196A**

Hexavalent Chromium	ND	0.166	0.415	mg/kg dry	1	2665175	08/30/2024	09/05/2024	U
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8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**SS-05**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.433		0.101	mg/L	1	B4H0507	08/05/2024	08/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H0501	08/05/2024	08/08/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	82.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H0245	08/02/2024	08/04/2024	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	109 %		70-130			"	"	"	
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Origins Laboratory



Jen Pellegrini, Project Manager

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 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-05**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.5 %		70-130			B4H02 45	08/02/2024	08/04/2024	
Surrogate: 4-Bromofluorobenzene	115 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	9.71		0.499	meq/L	10	[CALC]	08/05/2024	08/07/2024	
Magnesium	4.66		0.823	"	"	"	"	"	
Sodium	5.90		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.003		0.002	mg/kg	1	B4H0230	08/02/2024	08/07/2024	
2-Methylnaphthalene	0.004		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-05**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-05 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4H0230	08/02/2024	08/07/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.2 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.29			pH Units	1	B4H0521	08/05/2024	08/06/2024	
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**SAR by 20B Saturated Paste**

SAR	2.21		0.0100	SAR	1	B4H0514	08/05/2024	08/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.70		0.00500	mmhos/cm	1	B4H0521	08/05/2024	08/06/2024	
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**Table 915 metals by EPA 6020B**

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Jen Pellegrini, Project Manager

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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**SS-05**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-05 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.25		0.267	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Barium	66.4		9.22	"	"	"	"	"	
Cadmium	0.113		0.0922	"	"	"	"	"	
Copper	ND		9.22	"	"	"	"	"	Ua
Lead	6.45		0.922	"	"	"	"	"	
Nickel	5.34		0.922	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	Ua
Silver	ND		0.0922	"	"	"	"	"	Ua
Zinc	ND		34.1	"	"	"	"	"	Ua

**Total Metals 7196A**

Hexavalent Chromium	ND	0.156	0.390	mg/kg dry	1	2665175	08/30/2024	09/05/2024	U
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Jen Pellegrini, Project Manager

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**SS-06**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0981	mg/L	1	B4H0507	08/05/2024	08/08/2024	Ua
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H0501	08/05/2024	08/08/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	79.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H0245	08/02/2024	08/04/2024	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	111 %		70-130			"	"	"	
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Jen Pellegrini, Project Manager

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**SS-06**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-06 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.7 %		70-130			B4H02 45	08/02/2024	08/04/2024	
Surrogate: 4-Bromofluorobenzene	112 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.655		0.499	meq/L	10	[CALC]	08/05/2024	08/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H0230	08/02/2024	08/07/2024	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



Jen Pellegrini, Project Manager

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**SS-06**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-06 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4H0230	08/02/2024	08/07/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.27			pH Units	1	B4H0521	08/05/2024	08/06/2024	
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**SAR by 20B Saturated Paste**

SAR	0.156		0.0100	SAR	1	B4H0514	08/05/2024	08/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.123		0.00500	mmhos/cm	1	B4H0521	08/05/2024	08/06/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory



Jen Pellegrini, Project Manager

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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**SS-06**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-06 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.47		0.248	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Barium	51.6		8.55	"	"	"	"	"	
Cadmium	ND		0.0855	"	"	"	"	"	Ua
Copper	ND		8.55	"	"	"	"	"	Ua
Lead	4.41		0.855	"	"	"	"	"	
Nickel	3.70		0.855	"	"	"	"	"	
Selenium	ND		0.222	"	"	"	"	"	Ua
Silver	ND		0.0855	"	"	"	"	"	Ua
Zinc	ND		31.7	"	"	"	"	"	Ua

**Total Metals 7196A**

Hexavalent Chromium	ND	0.149	0.372	mg/kg dry	1	2665175	08/30/2024	09/05/2024	U
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Origins Laboratory



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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**FS-01**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.101	mg/L	1	B4H0507	08/05/2024	08/08/2024	Ua
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	29.8		25.0	mg/kg	1	B4H0501	08/05/2024	08/08/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: *o*-Terphenyl 86.7 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00898		0.00200	mg/kg	1	B4H0245	08/02/2024	08/04/2024	
1,3,5-Trimethylbenzene	0.0145		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	0.00662		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	5.53		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 98.6 % 70-130 " " "

Origins Laboratory



Jen Pellegrini, Project Manager

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**FS-01**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-07 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	115 %	70-130			B4H02 45	08/02/2024	08/04/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.509	0.499	meq/L	10	[CALC]	08/05/2024	08/07/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	0.028	0.002	mg/kg	1	B4H0230	08/02/2024	08/08/2024
2-Methylnaphthalene	0.023	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	Ua

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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**FS-01**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-07 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4H0230	08/02/2024	08/08/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.1 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.57			pH Units	1	B4H0521	08/05/2024	08/06/2024	
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**SAR by 20B Saturated Paste**

SAR	0.362		0.0100	SAR	1	B4H0514	08/05/2024	08/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.121		0.00500	mmhos/cm	1	B4H0521	08/05/2024	08/06/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.29		0.247	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
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Origins Laboratory



Jen Pellegrini, Project Manager

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**FS-01**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-07 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	37.5		8.52	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Cadmium	ND		0.0852	"	"	"	"	"	Ua
Copper	ND		8.52	"	"	"	"	"	Ua
Lead	2.94		0.852	"	"	"	"	"	
Nickel	2.47		0.852	"	"	"	"	"	
Selenium	ND		0.221	"	"	"	"	"	Ua
Silver	ND		0.0852	"	"	"	"	"	Ua
Zinc	ND		31.5	"	"	"	"	"	Ua

**Total Metals 7196 A**

Hexavalent Chromium	ND	0.137	0.341	mg/kg dry	1	2665177	08/30/2024	09/05/2024	U
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Origins Laboratory



Jen Pellegrini, Project Manager

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**FS-02**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.153		0.101	mg/L	1	B4H0507	08/05/2024	08/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	179		25.0	mg/kg	1	B4H0501	08/05/2024	08/08/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	90.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H0245	08/02/2024	08/04/2024	Ua
1,3,5-Trimethylbenzene	0.00598		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.416		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.3 %		70-130			"	"	"	

Origins Laboratory



Jen Pellegrini, Project Manager

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**FS-02**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-08 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	114 %		70-130			B4H02 45	08/02/2024	08/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.80	0.499	meq/L	10	[CALC]		08/05/2024	08/07/2024	
Magnesium	1.15	0.823	"	"	"	"	"	"	
Sodium	3.10	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.169	0.002	mg/kg	1	B4H0230		08/02/2024	08/08/2024	
2-Methylnaphthalene	0.031	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	0.076	0.020	"	"	"	"	"	"	

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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**FS-02**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-08 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4H0230	08/02/2024	08/08/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.49			pH Units	1	B4H0521	08/05/2024	08/06/2024	
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**SAR by 20B Saturated Paste**

SAR	2.20		0.0100	SAR	1	B4H0514	08/05/2024	08/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.699		0.00500	mmhos/cm	1	B4H0521	08/05/2024	08/06/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.37		0.277	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**FS-02**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-08 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	69.1		9.54	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Cadmium	ND		0.0954	"	"	"	"	"	Ua
Copper	ND		9.54	"	"	"	"	"	Ua
Lead	4.65		0.954	"	"	"	"	"	
Nickel	4.68		0.954	"	"	"	"	"	
Selenium	ND		0.248	"	"	"	"	"	Ua
Silver	ND		0.0954	"	"	"	"	"	Ua
Zinc	ND		35.3	"	"	"	"	"	Ua

**Total Metals 7196 A**

Hexavalent Chromium	ND	0.140	0.350	mg/kg dry	1	2665177	08/30/2024	09/05/2024	U
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Origins Laboratory



Jen Pellegrini, Project Manager

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8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**FS-03**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.176		0.0997	mg/L	1	B4H0507	08/05/2024	08/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	225		25.0	mg/kg	1	B4H0501	08/05/2024	08/08/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	94.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H0245	08/02/2024	08/04/2024	Ua
1,3,5-Trimethylbenzene	0.0599		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	0.0145		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	14.1		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			"	"	"	
Surrogate: Toluene-d8	106 %		70-130			"	"	"	

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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**FS-03**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-09 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	112 %		70-130			B4H02 45	08/02/2024	08/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.74		0.499	meq/L	10	[CALC]	08/05/2024	08/07/2024	
Magnesium	1.49		0.823	"	"	"	"	"	
Sodium	4.42		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.279		0.002	mg/kg	1	B4H0230	08/02/2024	08/08/2024	
2-Methylnaphthalene	0.034		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	0.061		0.020	"	"	"	"	"	

Origins Laboratory



Jen Pellegrini, Project Manager

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**FS-03**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 Y408075-09 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4H0230	08/02/2024	08/08/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.9 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.51			pH Units	1	B4H0521	08/05/2024	08/06/2024	
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**SAR by 20B Saturated Paste**

SAR	2.75		0.0100	SAR	1	B4H0514	08/05/2024	08/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.911		0.00500	mmhos/cm	1	B4H0521	08/05/2024	08/06/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.25		0.285	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
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Origins Laboratory



Jen Pellegrini, Project Manager

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8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**FS-03**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-09 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	48.6		9.84	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Cadmium	ND		0.0984	"	"	"	"	"	Ua
Copper	ND		9.84	"	"	"	"	"	Ua
Lead	4.04		0.984	"	"	"	"	"	
Nickel	3.67		0.984	"	"	"	"	"	
Selenium	ND		0.256	"	"	"	"	"	Ua
Silver	ND		0.0984	"	"	"	"	"	Ua
Zinc	ND		36.4	"	"	"	"	"	Ua

**Total Metals 7196 A**

Hexavalent Chromium	ND	0.123	0.308	mg/kg dry	1	2665177	08/30/2024	09/05/2024	U
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Origins Laboratory



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Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**FS-04**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
Y408075-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.175		0.0994	mg/L	1	B4H0507	08/05/2024	08/08/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4H0501	08/05/2024	08/08/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	82.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4H0245	08/02/2024	08/04/2024	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	112 %		70-130			"	"	"	
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Origins Laboratory



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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**FS-04**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-10 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	100 %		70-130			B4H02 45	08/02/2024	08/04/2024	
Surrogate: 4-Bromofluorobenzene	113 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	3.39		0.499	meq/L	10	[CALC]	08/05/2024	08/07/2024	
Magnesium	1.27		0.823	"	"	"	"	"	
Sodium	3.04		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4H0230	08/02/2024	08/08/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**FS-04**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-10 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4H0230	08/02/2024	08/08/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.1 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.39			pH Units	1	B4H0521	08/05/2024	08/06/2024	
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**SAR by 20B Saturated Paste**

SAR	1.99		0.0100	SAR	1	B4H0514	08/05/2024	08/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.763		0.00500	mmhos/cm	1	B4H0521	08/05/2024	08/06/2024	
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**Table 915 metals by EPA 6020B**

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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**FS-04**

**7/31/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y408075-10 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.57		0.275	mg/kg	10	B4H0240	08/02/2024	08/05/2024	
Barium	50.7		9.48	"	"	"	"	"	
Cadmium	ND		0.0948	"	"	"	"	"	Ua
Copper	ND		9.48	"	"	"	"	"	Ua
Lead	3.52		0.948	"	"	"	"	"	
Nickel	3.30		0.948	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	Ua
Silver	ND		0.0948	"	"	"	"	"	Ua
Zinc	ND		35.1	"	"	"	"	"	Ua

**Total Metals 7196 A**

Hexavalent Chromium	ND	0.135	0.339	mg/kg dry	1	2665177	08/30/2024	09/05/2024	U
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Origins Laboratory



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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0245 - EPA 5030 (soil)**

**Blank (B4H0245-BLK1)**

Prepared: 08/02/2024 Analyzed: 08/03/2024

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	0.14		"	0.125	112		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	114		70-130			

Origins Laboratory



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Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**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 B4H0245 - EPA 5030 (soil)**

**LCS (B4H0245-BS1)**

Prepared: 08/02/2024 Analyzed: 08/03/2024

1,2,4-Trimethylbenzene	0.0888	0.00200	mg/kg	0.100		88.8	70-130			
1,3,5-Trimethylbenzene	0.0864	0.00200	"	0.100		86.4	70-130			
Benzene	0.0903	0.00200	"	0.100		90.3	70-130			
Ethylbenzene	0.0927	0.00200	"	0.100		92.7	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.0952	0.00200	"	0.100		95.2	70-130			
o-Xylene	0.0945	0.00200	"	0.100		94.5	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0245 - EPA 5030 (soil)**

Matrix Spike (B4H0245-MS1)	Source: Y408067-01			Prepared: 08/02/2024 Analyzed: 08/03/2024						
1,2,4-Trimethylbenzene	0.0744	0.00200	mg/kg	0.100	ND	74.4	70-130			
1,3,5-Trimethylbenzene	0.0722	0.00200	"	0.100	ND	72.2	70-130			
Benzene	0.0723	0.00200	"	0.100	ND	72.3	70-130			
Ethylbenzene	0.0755	0.00200	"	0.100	ND	75.5	70-130			
Naphthalene	0.0710	0.00380	"	0.100	ND	71.0	70-130			
Toluene	0.0747	0.00200	"	0.100	ND	74.7	70-130			
o-Xylene	0.0711	0.00200	"	0.100	ND	71.1	70-130			
m,p-Xylene	0.147	0.00400	"	0.200	ND	73.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0245 - EPA 5030 (soil)

Matrix Spike Dup (B4H0245-MSD1)	Source: Y408067-01			Prepared: 08/02/2024 Analyzed: 08/03/2024						
1,2,4-Trimethylbenzene	0.0505	0.00200	mg/kg	0.100	ND	50.5	70-130	38.2	20	QM-07, QR-02
1,3,5-Trimethylbenzene	0.0483	0.00200	"	0.100	ND	48.3	70-130	39.7	20	QM-07, QR-02
Benzene	0.0569	0.00200	"	0.100	ND	56.9	70-130	23.8	20	QM-07, QR-02
Ethylbenzene	0.0525	0.00200	"	0.100	ND	52.5	70-130	36.0	20	QM-07, QR-02
Naphthalene	0.0524	0.00380	"	0.100	ND	52.4	70-130	30.2	20	QM-07, QR-02
Toluene	0.0552	0.00200	"	0.100	ND	55.2	70-130	30.0	20	QM-07, QR-02
o-Xylene	0.0492	0.00200	"	0.100	ND	49.2	70-130	36.4	20	QM-07, QR-02
m,p-Xylene	0.101	0.00400	"	0.200	ND	50.5	70-130	37.3	20	QM-07, QR-02
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Origins Laboratory



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Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**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
<b>Batch B4H0252 - EPA 3550B</b>										
<b>Blank (B4H0252-BLK1)</b>										
					Prepared: 08/02/2024 Analyzed: 08/06/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		93.4	50-150			

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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0252 - EPA 3550B**

**LCS (B4H0252-BS1)**

Prepared: 08/02/2024 Analyzed: 08/06/2024

Diesel (C10-C28)	915	50.0	mg/kg	1000		91.5	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.1	50-150			

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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0252 - EPA 3550B**

<b>Matrix Spike (B4H0252-MS1)</b>	<b>Source: Y408031-01</b>			Prepared: 08/02/2024 Analyzed: 08/06/2024						
Diesel (C10-C28)	923	50.0	mg/kg	1000	ND	92.3	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.8	50-150			

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 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H0252 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4H0252-MSD1)</b>		<b>Source: Y408031-01</b>			Prepared: 08/02/2024 Analyzed: 08/06/2024					
Diesel (C10-C28)	897	50.0	mg/kg	1000	ND	89.7	70-130	2.89	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	1.17	35	
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H0501 - EPA 3550B</b>										
<b>Blank (B4H0501-BLK1)</b>										
					Prepared: 08/05/2024 Analyzed: 08/08/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		84.9	50-150			

Origins Laboratory



Jen Pellegrini, Project Manager

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0501 - EPA 3550B**

**LCS (B4H0501-BS1)**

Prepared: 08/05/2024 Analyzed: 08/08/2024

Diesel (C10-C28)	946	50.0	mg/kg	1000		94.6	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory



Jen Pellegrini, Project Manager

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H0501 - EPA 3550B</b>										
<b>Matrix Spike (B4H0501-MS1)</b>			<b>Source: Y408075-04</b>			Prepared: 08/05/2024 Analyzed: 08/08/2024				
Diesel (C10-C28)	926	50.0	mg/kg	1000	ND	92.6	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory



Jen Pellegrini, Project Manager

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0501 - EPA 3550B**

<b>Matrix Spike Dup (B4H0501-MSD1)</b>	<b>Source: Y408075-04</b>			Prepared: 08/05/2024 Analyzed: 08/08/2024						
Diesel (C10-C28)	917	50.0	mg/kg	1000	ND	91.7	70-130	0.979	35	
Residual Range Organics (C28-C40)	989	200	"	1000	ND	98.9	70-130	2.01	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

Origins Laboratory



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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0240 - EPA 3050B**

**Blank (B4H0240-BLK1)**

Prepared: 08/02/2024 Analyzed: 08/05/2024

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Silver	ND	0.100	"							Ua
Zinc	ND	37.0	"							Ua

**LCS (B4H0240-BS1)**

Prepared: 08/02/2024 Analyzed: 08/05/2024

Arsenic	5.26	0.290	mg/kg	5.00		105	80-120			
Barium	524	10.0	"	500		105	80-120			
Cadmium	5.51	0.100	"	5.00		110	80-120			
Copper	55.2	10.0	"	50.0		110	80-120			
Lead	5.30	1.00	"	5.00		106	80-120			
Nickel	5.41	1.00	"	5.00		108	80-120			
Selenium	5.28	0.260	"	5.00		106	80-120			
Silver	5.38	0.100	"	5.00		108	80-120			
Zinc	54.4	37.0	"	50.0		109	80-120			

**Matrix Spike (B4H0240-MS1)**

Source: Y408031-01

Prepared: 08/02/2024 Analyzed: 08/06/2024

Origins Laboratory

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 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0240 - EPA 3050B**

<b>Matrix Spike (B4H0240-MS1)</b>	<b>Source: Y408031-01</b>			<b>Prepared: 08/02/2024 Analyzed: 08/06/2024</b>						
Arsenic	6.38	0.248	mg/kg	4.27	2.92	80.9	75-125			
Barium	476	8.55	"	427	140	78.5	75-125			
Cadmium	3.66	0.0855	"	4.27	0.185	81.2	75-125			
Copper	39.7	8.55	"	42.7	7.62	75.1	75-125			
Lead	12.3	0.855	"	4.27	8.87	81.2	75-125			
Nickel	13.3	0.855	"	4.27	9.71	83.7	75-125			
Selenium	3.59	0.222	"	4.27	0.164	80.1	75-125			
Silver	3.28	0.0855	"	4.27	0.0340	76.0	75-125			
Zinc	76.4	31.6	"	42.7	44.8	73.9	75-125			QM-07

<b>Matrix Spike Dup (B4H0240-MSD1)</b>	<b>Source: Y408031-01</b>			<b>Prepared: 08/02/2024 Analyzed: 08/06/2024</b>						
Arsenic	7.50	0.275	mg/kg	4.74	2.92	96.8	75-125	16.2	20	
Barium	652	9.47	"	474	140	108	75-125	31.3	20	QM-07
Cadmium	5.27	0.0947	"	4.74	0.185	107	75-125	36.2	20	QM-07
Copper	53.4	9.47	"	47.4	7.62	96.8	75-125	29.5	20	QM-07
Lead	14.0	0.947	"	4.74	8.87	108	75-125	12.5	20	
Nickel	14.7	0.947	"	4.74	9.71	105	75-125	9.98	20	
Selenium	4.89	0.246	"	4.74	0.164	99.7	75-125	30.7	20	
Silver	4.78	0.0947	"	4.74	0.0340	100	75-125	37.2	20	
Zinc	87.9	35.0	"	47.4	44.8	91.1	75-125	14.1	20	

Origins Laboratory



Jen Pellegrini, Project Manager

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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0230 - EPA 3580**

**Blank (B4H0230-BLK1)**

Prepared: 08/02/2024 Analyzed: 08/07/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	200		"	200		98.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	60-130			

**LCS (B4H0230-BS1)**

Prepared: 08/02/2024 Analyzed: 08/07/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200		94.7	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200		94.2	70-130			
Acenaphthene	0.192	0.020	"	0.200		96.1	70-130			
Anthracene	0.184	0.020	"	0.200		92.1	70-130			

Origins Laboratory



Jen Pellegrini, Project Manager

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0230 - EPA 3580**

**LCS (B4H0230-BS1)**

Prepared: 08/02/2024 Analyzed: 08/07/2024

Benzo (a) anthracene	0.186	0.005	mg/kg	0.200		93.2	70-130			
Benzo (a) pyrene	0.205	0.020	"	0.200		103	70-130			
Benzo (b) fluoranthene	0.193	0.020	"	0.200		96.6	70-130			
Benzo (g,h,i) perylene	0.178	0.020	"	0.200		89.1	70-130			
Benzo (k) fluoranthene	0.196	0.020	"	0.200		98.2	70-130			
Chrysene	0.189	0.020	"	0.200		94.7	70-130			
Dibenz (a,h) anthracene	0.184	0.020	"	0.200		92.0	70-130			
Fluoranthene	0.188	0.020	"	0.200		94.0	70-130			
Fluorene	0.187	0.020	"	0.200		93.6	70-130			
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200		91.3	70-130			
Naphthalene	0.191	0.002	"	0.200		95.7	70-130			
Phenanthrene	0.188	0.020	"	0.200		93.9	70-130			
Pyrene	0.196	0.020	"	0.200		98.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

**Matrix Spike (B4H0230-MS1)**

**Source: Y408067-01**

Prepared: 08/02/2024 Analyzed: 08/07/2024

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	99.8	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.7	70-130			
Acenaphthene	0.200	0.020	"	0.200	ND	99.8	70-130			
Anthracene	0.195	0.020	"	0.200	0.001	96.6	70-130			
Benzo (a) anthracene	0.193	0.005	"	0.200	0.0007	95.9	70-130			
Benzo (a) pyrene	0.217	0.020	"	0.200	0.001	108	70-130			
Benzo (b) fluoranthene	0.202	0.020	"	0.200	0.0005	101	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	ND	95.2	70-130			

Origins Laboratory



Jen Pellegrini, Project Manager

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0230 - EPA 3580**

**Matrix Spike (B4H0230-MS1)**

**Source: Y408067-01**

Prepared: 08/02/2024 Analyzed: 08/07/2024

Benzo (k) fluoranthene	0.200	0.020	mg/kg	0.200	ND	100	70-130			
Chrysene	0.201	0.020	"	0.200	ND	101	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	98.0	70-130			
Fluoranthene	0.200	0.020	"	0.200	0.0004	99.8	70-130			
Fluorene	0.199	0.020	"	0.200	ND	99.6	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	ND	97.4	70-130			
Naphthalene	0.198	0.002	"	0.200	ND	99.1	70-130			
Phenanthrene	0.197	0.020	"	0.200	ND	98.5	70-130			
Pyrene	0.202	0.020	"	0.200	0.0005	101	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130			
Surrogate: Anthracene-d10	200		"	200		98.1	60-130			
Surrogate: Pyrene-d10	200		"	200		99.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike Dup (B4H0230-MSD1)**

**Source: Y408067-01**

Prepared: 08/02/2024 Analyzed: 08/07/2024

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	ND	96.1	70-130	3.75	20	
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.5	70-130	4.37	20	
Acenaphthene	0.191	0.020	"	0.200	ND	95.6	70-130	4.35	20	
Anthracene	0.184	0.020	"	0.200	0.001	91.4	70-130	5.51	20	
Benzo (a) anthracene	0.180	0.005	"	0.200	0.0007	89.7	70-130	6.71	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	0.001	102	70-130	4.99	20	
Benzo (b) fluoranthene	0.198	0.020	"	0.200	0.0005	98.6	70-130	1.96	20	
Benzo (g,h,i) perylene	0.186	0.020	"	0.200	ND	92.9	70-130	2.50	20	
Benzo (k) fluoranthene	0.207	0.020	"	0.200	ND	103	70-130	3.19	20	
Chrysene	0.191	0.020	"	0.200	ND	95.6	70-130	5.06	20	
Dibenz (a,h) anthracene	0.188	0.020	"	0.200	ND	93.8	70-130	4.37	20	
Fluoranthene	0.188	0.020	"	0.200	0.0004	93.8	70-130	6.16	20	

Origins Laboratory



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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**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 B4H0230 - EPA 3580**

<b>Matrix Spike Dup (B4H0230-MSD1)</b>	<b>Source: Y408067-01</b>			<b>Prepared: 08/02/2024 Analyzed: 08/07/2024</b>						
Fluorene	0.186	0.020	mg/kg	0.200	ND	93.2	70-130	6.64	20	
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200	ND	93.0	70-130	4.61	20	
Naphthalene	0.190	0.002	"	0.200	ND	95.1	70-130	4.12	20	
Phenanthrene	0.186	0.020	"	0.200	ND	93.0	70-130	5.80	20	
Pyrene	0.194	0.020	"	0.200	0.0005	96.7	70-130	4.06	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	200		"	200		98.5	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

**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 B4H0507 - DTPA Sorbitol Preparation**

**Blank (B4H0507-BLK1)**

Prepared: 08/05/2024 Analyzed: 08/08/2024

Boron	ND	0.100	mg/L							Ua
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**Duplicate (B4H0507-DUP1)**

**Source: Y408067-01**

Prepared: 08/05/2024 Analyzed: 08/08/2024

Boron	2.20	0.0999	mg/L		2.13			3.42	50	
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**Batch B4H0514 - Saturated Paste Metals**

**Blank (B4H0514-BLK1)**

Prepared: 08/05/2024 Analyzed: 08/07/2024

Calcium PPM	ND	10.0	mg/L							Ua
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SAR	ND	0.0100	SAR							Ua
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Magnesium PPM	ND	10.0	mg/L							Ua
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Sodium PPM	ND	10.0	"							Ua
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**Duplicate (B4H0514-DUP1)**

**Source: Y408075-01**

Prepared: 08/05/2024 Analyzed: 08/07/2024

Calcium PPM	99.9	10.0	mg/L		93.0			7.15	50	
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SAR	ND	0.0100	SAR		2.86				200	Ua
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Magnesium PPM	24.2	10.0	mg/L		22.4			8.03	50	
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Sodium PPM	124	10.0	"		118			4.78	50	
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Jen Pellegrini, Project Manager

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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

**Saturated Paste - Quality Control  
Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H0521 - Saturated Paste pH/EC</b>										
<b>Blank (B4H0521-BLK1)</b>					Prepared: 08/05/2024 Analyzed: 08/07/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
<b>Duplicate (B4H0521-DUP1)</b>					<b>Source: Y408075-01</b> Prepared: 08/05/2024 Analyzed: 08/06/2024					
Specific Conductance (EC)	1.13	0.00500	mmhos/cm		1.06		6.57		25	
pH	8.43		pH Units		8.43		0.00		25	

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Jen Pellegrini, Project Manager

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Paul Henehan  
 Project Number: [none]  
 Project: Chevron - Wells Ranch BB03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2665177 - SW846 3060A</b>										
<b>BLANK (1205840036-BLK)</b>					Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	ND	0.323	mg/kg				-			U
<b>LCS (1205840037-BKS)</b>					Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	2.85	0.286	mg/kg	2.86		99.5	80-120			
<b>DUP (1205840038 D)</b>					Source: 679414001 Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	ND	0.368	mg/kg dry		<0.147		0-50	N/A	50	U
<b>MS (1205840039 S)</b>					Source: 679414001 Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	1.73	0.388	mg/kg dry	3.88	<0.155	44.1	75-125			
<b>DUP (1205840040 D)</b>					Source: 679452001 Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	ND	0.470	mg/kg dry		<0.188		0-50	N/A	50	U
<b>MS (1205840041 S)</b>					Source: 679452001 Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	4.21	0.443	mg/kg dry	4.43	<0.177	94.7	75-125			
<b>ILCS (1205840042-ILCS)</b>					Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	6.97	0.324	mg/kg	6.65		105	80-120			

Origins Laboratory



Jen Pellegrini, Project Manager

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2665175 - SW846 3060A</b>										
<b>BLANK (1205840029-BLK)</b>					Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	ND	0.284	mg/kg				-			U
<b>LCS (1205840030-BKS)</b>					Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	3.39	0.345	mg/kg	3.45		98.4	80-120			
<b>DUP (1205840031 D)</b>					Source: 679403001 Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	ND	0.440	mg/kg dry		<0.176		0-50	N/A	50	U
<b>MS (1205840032 S)</b>					Source: 679403001 Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	3.59	0.444	mg/kg dry	4.44	<0.178	79.3	75-125			
<b>DUP (1205840033 D)</b>					Source: 679403002 Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	ND	0.467	mg/kg dry		<0.187		0-50	N/A	50	U
<b>MS (1205840034 S)</b>					Source: 679403002 Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	3.45	0.480	mg/kg dry	4.80	<0.192	71.6	75-125			
<b>ILCS (1205840035-ILCS)</b>					Prepared: 08/30/2024 Analyzed: 09/05/2024					
Hexavalent Chromium	7.85	0.367	mg/kg	7.42		106	80-120			

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Paul Henehan  
Project Number: [none]  
Project: Chevron - Wells Ranch BB03

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**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.

Origins Laboratory



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