



Two Dot Consulting
Kyle Johnson
2200 West 29th Ave

February 11, 2025

Denver CO 80211

**Project Name - Chevron - Wells Ranch
AA35-69-1HNB**

Project Number - 3301-102

Attached are your analytical results for Chevron - Wells Ranch AA35-69-1HNB received by Origins Laboratory November 26, 2024. This project is associated with Origins project number E4K0902-01.

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

Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	E4K0902-01	Soil	November 26, 2024 12:08	11/26/2024 18:25
BKG01@3'	E4K0902-05	Soil	November 26, 2024 13:00	11/26/2024 18:25
BKG01@6'	E4K0902-06	Soil	November 26, 2024 13:11	11/26/2024 18:25
BKG02@3'	E4K0902-07	Soil	November 26, 2024 13:06	11/26/2024 18:25
BKG02@6'	E4K0902-08	Soil	November 26, 2024 13:17	11/26/2024 18:25
BKG03@3'	E4K0902-09	Soil	November 26, 2024 13:24	11/26/2024 18:25
BKG03@6'	E4K0902-10	Soil	November 26, 2024 13:30	11/26/2024 18:25

Origins Laboratory



Jen Pellegrini, Project Manager

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Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

Client: Chevron
 Address: 4900 Burlington Ave.
 Evans, CO 80620
 Telephone Number: 470-376-7431
 Email Address: RBUEUJ2@chevron.com

Project Manager: Kyle Johnson
 kylejohnson@montrose-cvr.com
 Project Name: Wells Ranch AA35-69-1HNB
 Project Number: 3301-102
 Collected By: 2Dot Consulting
 Invoice/Billing Info: Ute Vign
 Key: W=Water
 GW=Groundwater
 SW=Surface Water
 WW=Waste Water
 L=Liquid

S=Soil | SO=Soil | O=Oil | A=Air | G=Gas | UNP=Impres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis			Comments
						Full Table 9.15	10 Metals	Reclamation	
UN01 @ 6'	11/26/14	2:08	2	S	DL	X			
UN01-E @ 3'	11/24	11:54	1			X			HOLD
UN01-M @ 3'	12/03	12:03	1			X			HOLD
UN01-W @ 3'	12/15	12:15	1			X			HOLD
BL601 @ 3'	11/00	11:00	1			X			ON hold per
BL601 @ 6'	11/11	11:11	1			X			client email
BL602 @ 3'	11/06	11:06	1			X			
BL602 @ 6'	11/17	11:17	1			X			
BL603 @ 3'	11/24	11:24	1			X			
BL603 @ 6'	11/30	11:30	1			X			

Relinquished By: Charles LaBelle
 Date: 11/26/14
 Time: 4:53pm

Received By: Kim Johnson
 Date: 11/26/14
 Time: 1:58pm

Relinquished By: Kim Johnson
 Date: 11/26/14
 Time: 6:28pm

Received By: [Signature]
 Date: 11/26/14
 Time: 1:58pm

Temp Received - 45°F
 Received On Ice? Yes No

Turnaround Time
 SAME DAY
 48 Hr 72
 Standard

Jefe Pellegrini

Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: EUK10002

Client: Two Dot

Client Project ID: Wells Ranch AA35-68

Checklist Completed by: JPP / JML

Shipped Via: TD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/27/24

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 12.7 °C / °C / °C (Describe) °C

Thermometer ID: T007

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"/>		
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 subcontracted analyses 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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

11/27/24
 Date/Time Reviewed

Origins Laboratory

Jefe Pellegrini

Jen Pellegrini, Project Manager

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Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

WH01@6'

11/26/2024 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0902-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.147		0.0988	mg/L	1	B4L0213	12/02/2024	12/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0235	12/02/2024	12/03/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	66.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0258	12/02/2024	12/03/2024	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	119 %		70-130			"	"	"	
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WH01@6'

11/26/2024 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E4K0902-01 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B4L02 58	12/02/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.51		0.499	meq/L	10	[CALC]	12/02/2024	12/05/2024	
Magnesium	1.11		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0237	12/02/2024	12/03/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

WH01@6'

11/26/2024 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-01 (Soil)**

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0237	12/02/2024	12/03/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	114 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	115 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.34			pH Units	1	B4L0227	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	0.155		0.0100	SAR	1	B4L0220	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.319		0.00500	mmhos/cm	1	B4L0227	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory



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WH01@6'

11/26/2024 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0902-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.09		0.275	mg/kg	10	B4L0247	12/02/2024	12/05/2024	
Barium	167		9.49	"	"	"	"	"	
Cadmium	0.150		0.0949	"	"	"	"	"	
Copper	13.8		9.49	"	"	"	"	"	
Lead	13.0		0.949	"	"	"	"	"	
Nickel	11.2		0.949	"	"	"	"	"	
Selenium	ND		0.247	"	"	"	"	"	Ua
Silver	ND		0.0949	"	"	"	"	"	Ua
Zinc	53.5		35.1	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.134	0.335	mg/kg dry	1	2725616	12/24/2024	12/30/2024	U
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Origins Laboratory



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2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

BKG01@3'

11/26/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-05 (Soil)**

Boron (DTPA Sorbitol)

Boron	ND		0.0986	mg/L	1	B4L0213	12/02/2024	12/03/2024	Ua
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Metals by Saturated Paste by EPA 6010

Calcium	1.29		0.499	meq/L	10	[CALC]	12/02/2024	12/05/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B4L0227	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	0.351		0.0100	SAR	1	B4L0220	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.214		0.00500	mmhos/cm	1	B4L0227	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.83		0.266	mg/kg	10	B4L0247	12/02/2024	12/05/2024	
Barium	93.9		9.18	"	"	"	"	"	
Cadmium	0.132		0.0918	"	"	"	"	"	

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 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

BKG01@3'

11/26/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0902-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.18	mg/kg	10	B4L0247	12/02/2024	12/05/2024	Ua
Lead	6.56		0.918	"	"	"	"	"	
Nickel	7.18		0.918	"	"	"	"	"	
Selenium	ND		0.239	"	"	"	"	"	Ua
Silver	ND		0.0918	"	"	"	"	"	Ua
Zinc	ND		34.0	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.0992	0.248	mg/kg dry	1	2725616	12/24/2024	12/30/2024	U
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2200 West 29th Ave
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Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

BKG01@6'

11/26/2024 1:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-06 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.169		0.0980	mg/L	1	B4L0213	12/02/2024	12/03/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.567		0.499	meq/L	10	[CALC]	12/02/2024	12/05/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.80		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B4L0227	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	2.43		0.0100	SAR	1	B4L0220	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.292		0.00500	mmhos/cm	1	B4L0227	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.66		0.268	mg/kg	10	B4L0247	12/02/2024	12/05/2024	
Barium	60.7		9.23	"	"	"	"	"	
Cadmium	0.134		0.0923	"	"	"	"	"	
Copper	ND		9.23	"	"	"	"	"	Ua

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2200 West 29th Ave
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Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

BKG01@6'

11/26/2024 1:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-06 (Soil)**

Table 915 metals by EPA 6020B

Lead	7.60		0.923	mg/kg	10	B4L0247	12/02/2024	12/05/2024	
Nickel	7.42		0.923	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	Ua
Silver	ND		0.0923	"	"	"	"	"	Ua
Zinc	ND		34.2	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.169	0.424	mg/kg dry	1	2725616	12/24/2024	12/30/2024	U
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2200 West 29th Ave
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Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

BKG02@3'

11/26/2024 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-07 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.111		0.101	mg/L	1	B4L0213	12/02/2024	12/03/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.02		0.499	meq/L	10	[CALC]	12/02/2024	12/05/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.33			pH Units	1	B4L0227	12/02/2024	12/04/2024	
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SAR by 20B Saturated Paste

SAR	0.328		0.0100	SAR	1	B4L0220	12/02/2024	12/05/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.190		0.00500	mmhos/cm	1	B4L0227	12/02/2024	12/04/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.36		0.257	mg/kg	10	B4L0247	12/02/2024	12/05/2024	
Barium	82.1		8.87	"	"	"	"	"	
Cadmium	0.0922		0.0887	"	"	"	"	"	
Copper	ND		8.87	"	"	"	"	"	Ua

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Two Dot Consulting
2200 West 29th Ave
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Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

BKG02@3'

11/26/2024 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-07 (Soil)**

Table 915 metals by EPA 6020B

Lead	5.88		0.887	mg/kg	10	B4L0247	12/02/2024	12/05/2024	
Nickel	5.89		0.887	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	Ua
Silver	ND		0.0887	"	"	"	"	"	Ua
Zinc	ND		32.8	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.116	0.289	mg/kg dry	1	2725616	12/24/2024	12/30/2024	U
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Origins Laboratory



Jen Pellegrini, Project Manager

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Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

BKG02@6'

11/26/2024 1:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-08 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.235		0.100	mg/L	1	B4L0214	12/02/2024	12/03/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.645		0.499	meq/L	10	[CALC]	12/02/2024	12/03/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.21		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.50			pH Units	1	B4L0228	12/02/2024	12/03/2024	
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SAR by 20B Saturated Paste

SAR	2.73		0.0100	SAR	1	B4L0221	12/02/2024	12/03/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.398		0.00500	mmhos/cm	1	B4L0228	12/02/2024	12/03/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.86		0.280	mg/kg	10	B4L0247	12/02/2024	12/05/2024	
Barium	51.1		9.66	"	"	"	"	"	
Cadmium	ND		0.0966	"	"	"	"	"	Ua
Copper	ND		9.66	"	"	"	"	"	Ua

Origins Laboratory



Jen Pellegrini, Project Manager

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Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

BKG02@6'

11/26/2024 1:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-08 (Soil)**

Table 915 metals by EPA 6020B

Lead	8.03		0.966	mg/kg	10	B4L0247	12/02/2024	12/05/2024	
Nickel	7.73		0.966	"	"	"	"	"	
Selenium	ND		0.251	"	"	"	"	"	Ua
Silver	ND		0.0966	"	"	"	"	"	Ua
Zinc	ND		35.7	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.134	0.335	mg/kg dry	1	2725616	12/24/2024	12/30/2024	U
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Origins Laboratory



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 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

BKG03@3'

11/26/2024 1:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E4K0902-09 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.110		0.101	mg/L	1	B4L0214	12/02/2024	12/03/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.528		0.499	meq/L	10	[CALC]	12/02/2024	12/03/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.84			pH Units	1	B4L0228	12/02/2024	12/03/2024	
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SAR by 20B Saturated Paste

SAR	0.182		0.0100	SAR	1	B4L0221	12/02/2024	12/03/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.116		0.00500	mmhos/cm	1	B4L0228	12/02/2024	12/03/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.89		0.270	mg/kg	10	B4L0247	12/02/2024	12/05/2024	
Barium	63.3		9.31	"	"	"	"	"	
Cadmium	ND		0.0931	"	"	"	"	"	Ua

Origins Laboratory



Jen Pellegrini, Project Manager

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Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

BKG03@3'

11/26/2024 1:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-09 (Soil)**

Table 915 metals by EPA 6020B

Copper	ND		9.31	mg/kg	10	B4L0247	12/02/2024	12/05/2024	Ua
Lead	6.40		0.931	"	"	"	"	"	
Nickel	4.46		0.931	"	"	"	"	"	
Selenium	ND		0.242	"	"	"	"	"	Ua
Silver	ND		0.0931	"	"	"	"	"	Ua
Zinc	ND		34.5	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.141	0.353	mg/kg dry	1	2725945	12/26/2024	01/02/2025	U
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Origins Laboratory



Jen Pellegrini, Project Manager

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Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

BKG03@6'

11/26/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-10 (Soil)**

Boron (DTPA Sorbitol)

Boron	ND		0.0995	mg/L	1	B4L0214	12/02/2024	12/03/2024	Ua
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Metals by Saturated Paste by EPA 6010

Calcium	1.19		0.499	meq/L	10	[CALC]	12/02/2024	12/03/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.35			pH Units	1	B4L0228	12/02/2024	12/03/2024	
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SAR by 20B Saturated Paste

SAR	0.206		0.0100	SAR	1	B4L0221	12/02/2024	12/03/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.205		0.00500	mmhos/cm	1	B4L0228	12/02/2024	12/03/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.25		0.278	mg/kg	10	B4L0247	12/02/2024	12/05/2024	
Barium	47.6		9.58	"	"	"	"	"	
Cadmium	ND		0.0958	"	"	"	"	"	Ua

Origins Laboratory



Jen Pellegrini, Project Manager

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2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

BKG03@6'

11/26/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0902-10 (Soil)**

Table 915 metals by EPA 6020B

Copper	ND		9.58	mg/kg	10	B4L0247	12/02/2024	12/05/2024	Ua
Lead	6.20		0.958	"	"	"	"	"	
Nickel	3.00		0.958	"	"	"	"	"	
Selenium	ND		0.249	"	"	"	"	"	Ua
Silver	ND		0.0958	"	"	"	"	"	Ua
Zinc	ND		35.5	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.105	0.263	mg/kg dry	1	2725945	12/26/2024	01/02/2025	U
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Origins Laboratory



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 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0235 - EPA 3550B										
Blank (B4L0235-BLK1)										
					Prepared: 12/02/2024 Analyzed: 12/03/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	19		"	24.9		76.7	50-150			

Origins Laboratory



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Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

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 B4L0235 - EPA 3550B

LCS (B4L0235-BS1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

Diesel (C10-C28)	762	50.0	mg/kg	1000		76.2	70-130			
Residual Range Organics (C28-C40)	814	200	"	1000		81.4	70-130			
Surrogate: o-Terphenyl	35		"	49.8		69.9	50-150			

Origins Laboratory



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Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

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 B4L0235 - EPA 3550B

Matrix Spike (B4L0235-MS1)	Source: E4K0872-01			Prepared: 12/02/2024 Analyzed: 12/03/2024						
Diesel (C10-C28)	780	50.0	mg/kg	1000	ND	78.0	70-130			
Residual Range Organics (C28-C40)	844	200	"	1000	ND	84.4	70-130			
Surrogate: o-Terphenyl	35		"	49.8		70.4	50-150			

Origins Laboratory



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Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0235 - EPA 3550B										
Matrix Spike Dup (B4L0235-MSD1)		Source: E4K0872-01			Prepared: 12/02/2024 Analyzed: 12/03/2024					
Diesel (C10-C28)	768	50.0	mg/kg	1000	ND	76.8	70-130	1.49	35	
Residual Range Organics (C28-C40)	846	200	"	1000	ND	84.6	70-130	0.189	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

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 B4L0258 - EPA 5030 (soil)

Blank (B4L0258-BLK1)

Prepared: 12/02/2024 Analyzed: 12/02/2024

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	0.16		"	0.125	128		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

Origins Laboratory



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Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

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 B4L0258 - EPA 5030 (soil)

LCS (B4L0258-BS1)

Prepared: 12/02/2024 Analyzed: 12/02/2024

1,2,4-Trimethylbenzene	0.0956	0.00200	mg/kg	0.100		95.6	70-130			
1,3,5-Trimethylbenzene	0.0960	0.00200	"	0.100		96.0	70-130			
Benzene	0.0905	0.00200	"	0.100		90.5	70-130			
Ethylbenzene	0.0980	0.00200	"	0.100		98.0	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.0983	0.00200	"	0.100		98.3	70-130			
o-Xylene	0.0968	0.00200	"	0.100		96.8	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory



Jen Pellegrini, Project Manager

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 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

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 B4L0258 - EPA 5030 (soil)

Matrix Spike (B4L0258-MS1)	Source: E4K0877-01			Prepared: 12/02/2024 Analyzed: 12/02/2024						
1,2,4-Trimethylbenzene	0.0923	0.00200	mg/kg	0.100	ND	92.3	70-130			
1,3,5-Trimethylbenzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Benzene	0.0838	0.00200	"	0.100	ND	83.8	70-130			
Ethylbenzene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130			
Toluene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
o-Xylene	0.0911	0.00200	"	0.100	ND	91.1	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

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Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

**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 B4L0258 - EPA 5030 (soil)

Matrix Spike Dup (B4L0258-MSD1)	Source: E4K0877-01			Prepared: 12/02/2024 Analyzed: 12/02/2024						
1,2,4-Trimethylbenzene	0.0915	0.00200	mg/kg	0.100	ND	91.5	70-130	0.849	20	
1,3,5-Trimethylbenzene	0.0913	0.00200	"	0.100	ND	91.3	70-130	0.615	20	
Benzene	0.0885	0.00200	"	0.100	ND	88.5	70-130	5.43	20	
Ethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	2.90	20	
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130	0.111	20	
Toluene	0.0969	0.00200	"	0.100	ND	96.9	70-130	1.43	20	
o-Xylene	0.0873	0.00200	"	0.100	ND	87.3	70-130	4.30	20	
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.3	70-130	3.58	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

Origins Laboratory



Jen Pellegrini, Project Manager

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Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0247 - EPA 3050B

Blank (B4L0247-BLK1)

Prepared: 12/02/2024 Analyzed: 12/05/2024

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 (B4L0247-BS1)

Prepared: 12/02/2024 Analyzed: 12/05/2024

Arsenic	5.38	0.290	mg/kg	5.00		108	80-120			
Barium	480	10.0	"	500		96.1	80-120			
Cadmium	4.94	0.100	"	5.00		98.8	80-120			
Copper	52.9	10.0	"	50.0		106	80-120			
Lead	5.14	1.00	"	5.00		103	80-120			
Nickel	5.41	1.00	"	5.00		108	80-120			
Selenium	5.12	0.260	"	5.00		102	80-120			
Silver	5.14	0.100	"	5.00		103	80-120			
Zinc	53.6	37.0	"	50.0		107	80-120			

Matrix Spike (B4L0247-MS1)

Source: E4K0902-01

Prepared: 12/02/2024 Analyzed: 12/05/2024

Origins Laboratory



Jen Pellegrini, Project Manager

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Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

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 B4L0247 - EPA 3050B

Matrix Spike (B4L0247-MS1)		Source: E4K0902-01			Prepared: 12/02/2024 Analyzed: 12/05/2024					
Arsenic	6.94	0.274	mg/kg	4.72	2.09	103	75-125			
Barium	842	9.44	"	472	167	143	75-125			QM-07
Cadmium	4.99	0.0944	"	4.72	0.150	102	75-125			
Copper	62.8	9.44	"	47.2	13.8	104	75-125			
Lead	18.5	0.944	"	4.72	13.0	117	75-125			
Nickel	15.4	0.944	"	4.72	11.2	89.9	75-125			
Selenium	4.70	0.245	"	4.72	0.179	95.8	75-125			
Silver	5.11	0.0944	"	4.72	0.0531	107	75-125			
Zinc	101	34.9	"	47.2	53.5	101	75-125			

Matrix Spike Dup (B4L0247-MSD1)		Source: E4K0902-01			Prepared: 12/02/2024 Analyzed: 12/05/2024					
Arsenic	6.66	0.275	mg/kg	4.74	2.09	96.5	75-125	4.03	20	
Barium	718	9.47	"	474	167	116	75-125	16.0	20	
Cadmium	4.90	0.0947	"	4.74	0.150	100	75-125	1.86	20	
Copper	61.8	9.47	"	47.4	13.8	101	75-125	1.57	20	
Lead	17.2	0.947	"	4.74	13.0	89.2	75-125	7.26	20	
Nickel	14.7	0.947	"	4.74	11.2	75.1	75-125	4.55	20	
Selenium	4.88	0.246	"	4.74	0.179	99.2	75-125	3.72	20	
Silver	4.89	0.0947	"	4.74	0.0531	102	75-125	4.27	20	
Zinc	98.1	35.0	"	47.4	53.5	94.3	75-125	3.06	20	

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Jen Pellegrini, Project Manager

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Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

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 B4L0237 - EPA 3580

Blank (B4L0237-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		99.2	60-130			
Surrogate: Anthracene-d10	190		"	200		93.9	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

LCS (B4L0237-BS1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200		108	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.4	70-130			
Acenaphthene	0.203	0.020	"	0.200		102	70-130			
Anthracene	0.191	0.020	"	0.200		95.6	70-130			

Origins Laboratory



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Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

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 B4L0237 - EPA 3580

LCS (B4L0237-BS1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

Benzo (a) anthracene	0.182	0.005	mg/kg	0.200		91.1	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200		104	70-130			
Benzo (b) fluoranthene	0.220	0.020	"	0.200		110	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200		94.0	70-130			
Benzo (k) fluoranthene	0.221	0.020	"	0.200		111	70-130			
Chrysene	0.213	0.020	"	0.200		107	70-130			
Dibenz (a,h) anthracene	0.180	0.020	"	0.200		90.0	70-130			
Fluoranthene	0.237	0.020	"	0.200		118	70-130			
Fluorene	0.210	0.020	"	0.200		105	70-130			
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200		108	70-130			
Naphthalene	0.205	0.002	"	0.200		103	70-130			
Phenanthrene	0.203	0.020	"	0.200		102	70-130			
Pyrene	0.235	0.020	"	0.200		117	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		90.1	60-130			
Surrogate: Pyrene-d10	240		"	200		120	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

Matrix Spike (B4L0237-MS1)

Source: E4K0876-01

Prepared: 12/02/2024 Analyzed: 12/03/2024

1-Methylnaphthalene	0.218	0.002	mg/kg	0.200	ND	109	70-130			
2-Methylnaphthalene	0.214	0.002	"	0.200	ND	107	70-130			
Acenaphthene	0.213	0.020	"	0.200	ND	106	70-130			
Anthracene	0.184	0.020	"	0.200	0.0006	91.6	70-130			
Benzo (a) anthracene	0.193	0.005	"	0.200	0.0008	96.1	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200	0.002	99.1	70-130			
Benzo (b) fluoranthene	0.229	0.020	"	0.200	0.001	114	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	0.013	92.6	70-130			

Origins Laboratory



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Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

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 B4L0237 - EPA 3580

Matrix Spike (B4L0237-MS1)	Source: E4K0876-01			Prepared: 12/02/2024 Analyzed: 12/03/2024						
Benzo (k) fluoranthene	0.218	0.020	mg/kg	0.200	0.002	108	70-130			
Chrysene	0.226	0.020	"	0.200	0.001	112	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	0.021	88.3	70-130			
Fluoranthene	0.224	0.020	"	0.200	0.0006	112	70-130			
Fluorene	0.208	0.020	"	0.200	0.0007	104	70-130			
Indeno (1,2,3-cd) pyrene	0.237	0.020	"	0.200	0.015	111	70-130			
Naphthalene	0.211	0.002	"	0.200	ND	106	70-130			
Phenanthrene	0.214	0.020	"	0.200	0.0009	107	70-130			
Pyrene	0.232	0.020	"	0.200	0.002	115	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	190		"	200		93.8	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.7	60-130			

Matrix Spike Dup (B4L0237-MSD1)	Source: E4K0876-01			Prepared: 12/02/2024 Analyzed: 12/03/2024						
1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	ND	108	70-130	0.556	20	
2-Methylnaphthalene	0.213	0.002	"	0.200	ND	107	70-130	0.418	20	
Acenaphthene	0.212	0.020	"	0.200	ND	106	70-130	0.547	20	
Anthracene	0.180	0.020	"	0.200	0.0006	89.9	70-130	1.91	20	
Benzo (a) anthracene	0.197	0.005	"	0.200	0.0008	98.3	70-130	2.28	20	
Benzo (a) pyrene	0.223	0.020	"	0.200	0.002	110	70-130	10.7	20	
Benzo (b) fluoranthene	0.249	0.020	"	0.200	0.001	124	70-130	8.04	20	
Benzo (g,h,i) perylene	0.196	0.020	"	0.200	0.013	91.5	70-130	1.14	20	
Benzo (k) fluoranthene	0.244	0.020	"	0.200	0.002	121	70-130	11.0	20	
Chrysene	0.223	0.020	"	0.200	0.001	111	70-130	1.47	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	0.021	85.8	70-130	2.57	20	
Fluoranthene	0.221	0.020	"	0.200	0.0006	110	70-130	1.30	20	

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Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

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 B4L0237 - EPA 3580

Matrix Spike Dup (B4L0237-MSD1)	Source: E4K0876-01			Prepared: 12/02/2024 Analyzed: 12/03/2024						
Fluorene	0.220	0.020	mg/kg	0.200	0.0007	110	70-130	5.57	20	
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	0.015	108	70-130	2.04	20	
Naphthalene	0.214	0.002	"	0.200	ND	107	70-130	1.41	20	
Phenanthrene	0.208	0.020	"	0.200	0.0009	104	70-130	2.80	20	
Pyrene	0.215	0.020	"	0.200	0.002	107	70-130	7.35	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	180		"	200		92.1	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0213 - DTPA Sorbitol Preparation										
Blank (B4L0213-BLK1)					Prepared: 12/02/2024 Analyzed: 12/03/2024					
Boron	ND	0.100	mg/L							Ua
Duplicate (B4L0213-DUP1)		Source: E4K0884-01			Prepared: 12/02/2024 Analyzed: 12/03/2024					
Boron	0.0444	0.101	mg/L		0.0424			4.59	50	Ua
Batch B4L0214 - DTPA Sorbitol Preparation										
Blank (B4L0214-BLK1)					Prepared: 12/02/2024 Analyzed: 12/03/2024					
Boron	ND	0.100	mg/L							Ua
Duplicate (B4L0214-DUP1)		Source: E4K0902-08			Prepared: 12/02/2024 Analyzed: 12/03/2024					
Boron	0.246	0.0989	mg/L		0.235			4.64	50	
Batch B4L0220 - Saturated Paste Metals										
Blank (B4L0220-BLK1)					Prepared: 12/02/2024 Analyzed: 12/05/2024					
SAR	ND	0.0100	SAR							Ua
Calcium PPM	ND	10.0	mg/L							Ua
Magnesium PPM	ND	10.0	"							Ua
Sodium PPM	ND	10.0	"							Ua
Duplicate (B4L0220-DUP1)		Source: E4K0884-01			Prepared: 12/02/2024 Analyzed: 12/05/2024					
Calcium PPM	23.9	10.0	mg/L		24.0			0.460	50	
SAR	ND	0.0100	SAR		ND				200	Ua
Magnesium PPM	4.26	10.0	mg/L		4.05			5.05	50	Ua
Sodium PPM	10.6	10.0	"		10.3			2.30	50	

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Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

**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 B4L0221 - Saturated Paste Metals

Blank (B4L0221-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

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

Duplicate (B4L0221-DUP1)

Source: E4K0902-08

Prepared: 12/02/2024 Analyzed: 12/03/2024

SAR	ND	0.0100	SAR		2.73				200	Ua
Calcium PPM	12.8	10.0	mg/L		12.9			0.776	50	
Magnesium PPM	8.01	10.0	"		8.07			0.746	50	Ua
Sodium PPM	52.8	10.0	"		50.8			3.77	50	

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Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

**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 B4L0227 - Saturated Paste pH/EC

Blank (B4L0227-BLK1)

Prepared: 12/02/2024 Analyzed: 12/04/2024

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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Duplicate (B4L0227-DUP1)

Source: E4K0884-01

Prepared: 12/02/2024 Analyzed: 12/04/2024

pH	8.27		pH Units		8.27			0.00	25	
Specific Conductance (EC)	0.268	0.00500	mmhos/cm		0.293			9.06	25	

Batch B4L0228 - Saturated Paste pH/EC

Blank (B4L0228-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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Duplicate (B4L0228-DUP1)

Source: E4K0902-08

Prepared: 12/02/2024 Analyzed: 12/03/2024

Specific Conductance (EC)	0.396	0.00500	mmhos/cm		0.398			0.378	25	
pH	8.54		pH Units		8.50			0.469	25	

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Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2725945 - SW846 3060A										
BLANK (1205960372-BLK)					Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	ND	0.375	mg/kg				-			U
LCS (1205960373-BKS)					Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	2.65	0.263	mg/kg	2.63		101	80-120			
DUP (1205960374 D)					Source: E4K0902-09 Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	ND	0.354	mg/kg dry		<0.141		0-50	N/A	50	U
MS (1205960375 S)					Source: E4K0902-09 Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	1.62	0.354	mg/kg dry	3.54	<0.142	44.1	75-125			
DUP (1205960376 D)					Source: E4K0902-10 Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	ND	0.264	mg/kg dry		<0.106		0-50	N/A	50	U
MS (1205960377 S)					Source: E4K0902-10 Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	1.82	0.264	mg/kg dry	2.64	<0.106	68.3	75-125			
ILCS (1205960378-ILCS)					Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	4.48	0.211	mg/kg	4.30		104	80-120			

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 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Wells Ranch AA35-69-1HNB

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2725616 - SW846 3060A										
BLANK (1205959623-BLK)					Prepared: 12/24/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	ND	0.376	mg/kg				-			U
LCS (1205959624-BKS)					Prepared: 12/24/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	3.09	0.303	mg/kg	3.03		102	80-120			
DUP (1205959625 D)					Source: 698422001 Prepared: 12/24/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	ND	0.389	mg/kg dry		<0.156		0-50	N/A	50	U
MS (1205959626 S)					Source: 698422001 Prepared: 12/24/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	3.20	0.390	mg/kg dry	3.90	<0.156	81.5	75-125			
DUP (1205959627 D)					Source: 698422002 Prepared: 12/24/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	ND	0.322	mg/kg dry		<0.129		0-50	N/A	50	U
MS (1205959628 S)					Source: 698422002 Prepared: 12/24/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	2.83	0.322	mg/kg dry	3.22	<0.129	87	75-125			
ILCS (1205959629-ILCS)					Prepared: 12/24/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	5.57	0.258	mg/kg	5.18		107	80-120			

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Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Wells Ranch AA35-69-1HNB

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.

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