

# ORIGINS LABORATORY

Two Dot Consulting

Kyle Johnson

2200 West 29th Ave

Denver

CO

80211

January 03, 2025

**Project Name - Chevron - Wells Ranch AE32-640**

**Project Number - 3301-102**

Attached are your analytical results for Chevron - Wells Ranch AE32-640 received by Origins Laboratory November 20, 2024. This project is associated with Origins project number E4K0639-01.

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 AE32-640

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	E4K0639-01	Soil	November 20, 2024 10:58	11/20/2024 17:48
WH01-N@3'	E4K0639-02	Soil	November 20, 2024 10:18	11/20/2024 17:48
WH01-W@3'	E4K0639-03	Soil	November 20, 2024 10:27	11/20/2024 17:48
WH01-S@3'	E4K0639-04	Soil	November 20, 2024 10:40	11/20/2024 17:48
BKG01@3'	E4K0639-05	Soil	November 20, 2024 11:21	11/20/2024 17:48
BKG01@6'	E4K0639-06	Soil	November 20, 2024 11:25	11/20/2024 17:48
BKG02@3'	E4K0639-07	Soil	November 20, 2024 11:42	11/20/2024 17:48
BKG02@6'	E4K0639-08	Soil	November 20, 2024 11:46	11/20/2024 17:48
BKG03@3'	E4K0639-09	Soil	November 20, 2024 12:00	11/20/2024 17:48
BKG03@6'	E4K0639-10	Soil	November 20, 2024 12:09	11/20/2024 17:48

Origins Laboratory

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Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301-102  
 Project: Chevron - Wells Ranch AE32-640

**ORIGINS**  
LABORATORY

10/20/24  
 Kyle Johnson

**EUK639**

Page 1 of 1

Client: Chevron  
 Address: 4100 Burlington Ave  
 Evans, CO 80620

Project Manager: Kyle Johnson  
 kjohnson@montrose-env.com

Key: W=Water  
 G=Groundwater  
 SW=Surface Water  
 WW=Waste Water  
 L=Liquid

Telephone Number: 303-747-7431  
 Email Address: BB@EUK639.com

Project Number: 3301-102  
 Collected By: 2Dot Consulting  
 Invoice/Billing Info: Chevron

S=Soil O=Oil G=Gas U=Ureap/ureas HCl=Hydrochloric HNO3=Nitric H2SO4=Sulfuric NaOH=Sodium Hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
					Full Table 9.15 10 Metals	Reclamation	
W101-01	11/20/24	10:58 AM	2	File	X		
W101-02	11/20/24	10:58 AM	1		X		
W101-03	11/20/24	10:58 AM	1		X		
W101-04	11/20/24	10:58 AM	1		X		
W101-05	11/20/24	10:58 AM	1		X		
W101-06	11/20/24	10:58 AM	1		X		
W101-07	11/20/24	10:58 AM	1		X		
W101-08	11/20/24	10:58 AM	1		X		
W101-09	11/20/24	10:58 AM	1		X		
W101-10	11/20/24	10:58 AM	1		X		
W101-11	11/20/24	10:58 AM	1		X		
W101-12	11/20/24	10:58 AM	1		X		
W101-13	11/20/24	10:58 AM	1		X		
W101-14	11/20/24	10:58 AM	1		X		
W101-15	11/20/24	10:58 AM	1		X		
W101-16	11/20/24	10:58 AM	1		X		
W101-17	11/20/24	10:58 AM	1		X		
W101-18	11/20/24	10:58 AM	1		X		
W101-19	11/20/24	10:58 AM	1		X		
W101-20	11/20/24	10:58 AM	1		X		
W101-21	11/20/24	10:58 AM	1		X		
W101-22	11/20/24	10:58 AM	1		X		
W101-23	11/20/24	10:58 AM	1		X		
W101-24	11/20/24	10:58 AM	1		X		
W101-25	11/20/24	10:58 AM	1		X		
W101-26	11/20/24	10:58 AM	1		X		
W101-27	11/20/24	10:58 AM	1		X		
W101-28	11/20/24	10:58 AM	1		X		
W101-29	11/20/24	10:58 AM	1		X		
W101-30	11/20/24	10:58 AM	1		X		

Temp Received: 1.6  
 Received On Ice?  Yes  No  
 Turnaround Time:  48 Hr  72 Hrs  SAME DAY  24 Hr

Origins Laboratory

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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

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

### Sample Receipt Checklist

Origins Work Order: E4 K0639 Client: 2 Dot Consulting  
 Checklist Completed by: W / JMR Client Project ID: Wells Ranch AE32-640  
 Date/Time Completed: 11/21/24 Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 1.6 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: 1007

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> ?	<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"/>		
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubbles) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
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 NaAsO <sub>2</sub> -NaOH, ZnAc-NaOH)			<input checked="" type="checkbox"/>	
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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

11/22/24  
Date/Time Reviewed

Origins Laboratory

[Signature]

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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

WH01@6'

11/20/2024 10:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	ND		0.102	mg/L	1	B4K2521	11/25/2024	11/26/2024	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K2201	11/22/2024	11/25/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.3 %		50-150	"	"	"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K2531	11/25/2024	11/26/2024	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	107 %		70-130	"	"	"	"	"	
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2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

WH01@6'

11/20/2024 10:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-01 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %		70-130			B4K25 31	11/25/2024	11/26/2024	
Surrogate: 4-Bromofluorobenzene	95.6 %		70-130			"	"	"	


### Metals by Saturated Paste by EPA 6010

Calcium	1.14		0.499	meq/L	10	[CALC]	11/25/2024	11/27/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.465		0.435	"	"	"	"	"	

### PAH by 8270E SIM

1-Methylnaphthalene	ND	0.00126	0.00381	mg/kg dry	1	2713344	12/02/2024	12/02/2024	U
2-Methylnaphthalene	ND	0.00126	0.00381	"	"	"	"	"	U
Acenaphthene	ND	0.00126	0.00381	"	"	"	"	"	U
Anthracene	ND	0.00126	0.00381	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00126	0.00381	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00126	0.00381	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00126	0.00381	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00126	0.00381	"	"	"	"	"	U
Chrysene	ND	0.00126	0.00381	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00126	0.00381	"	"	"	"	"	U
Fluoranthene	ND	0.00126	0.00381	"	"	"	"	"	U

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11/20/2024 10:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

E4K0639-01 (Soil)

### PAH by 8270E SIM

Fluorene	ND	0.00126	0.00381	mg/kg dry	1	2713344	12/02/2024	12/02/2024	U
Indeno(1,2,3-cd)pyrene	ND	0.00126	0.00381	"	"	"	"	"	U
Naphthalene	ND	0.00126	0.00381	"	"	"	"	"	U
Pyrene	ND	0.00126	0.00381	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 90 % 22-135 " " "

### pH in Soil by 9045D

pH 8.31 pH Units 1 B4K2525 11/25/2024 11/26/2024

### SAR by 20B Saturated Paste

SAR 0.527 0.0100 SAR 1 B4K2511 11/25/2024 11/27/2024

### Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.258 0.00500 mmhos/cm 1 B4K2525 11/25/2024 11/26/2024

### Table 915 metals by EPA 6020B

Arsenic 2.57 0.276 mg/kg 10 B4K2138 11/21/2024 11/27/2024  
Barium 46.8 9.53 " " " "

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WH01@6'

11/20/2024 10:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-01 (Soil)

### Table 915 metals by EPA 6020B

Cadmium	ND		0.0953	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Copper	ND		9.53	"	"	"	"	"	"
Lead	4.81		0.953	"	"	"	"	"	"
Nickel	4.21		0.953	"	"	"	"	"	"
Selenium	ND		0.248	"	"	"	"	"	"
Silver	ND		0.0953	"	"	"	"	"	"
Zinc	ND		35.3	"	"	"	"	"	"

### Total Metals by 7196A

Hexavalent Chromium	ND	0.147	0.369	mg/kg dry	1	2722474	12/19/2024	12/24/2024	U
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Project: Chevron - Wells Ranch AE32-640

WH01-N@3'

11/20/2024 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-02 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.139		0.0987	mg/L	1	B4K2521	11/25/2024	11/26/2024	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K2201	11/22/2024	11/25/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.7 %		50-150	"	"	"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K2531	11/25/2024	11/26/2024	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	107 %		70-130	"	"	"	"	"	
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Project: Chevron - Wells Ranch AE32-640

WH01-N@3'

11/20/2024 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-02 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	106 %		70-130			B4K25 31	11/25/2024	11/26/2024	
Surrogate: 4-Bromofluorobenzene	95.6 %		70-130			"	"	"	

### Metals by Saturated Paste by EPA 6010

Calcium	1.27		0.499	meq/L	10	[CALC]	11/25/2024	11/27/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.595		0.435	"	"	"	"	"	

### PAH by 8270E SIM

1-Methylnaphthalene	ND	0.00124	0.00376	mg/kg dry	1	2713344	12/02/2024	12/02/2024	U
2-Methylnaphthalene	ND	0.00124	0.00376	"	"	"	"	"	U
Acenaphthene	ND	0.00124	0.00376	"	"	"	"	"	U
Anthracene	ND	0.00124	0.00376	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00124	0.00376	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00124	0.00376	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00124	0.00376	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00124	0.00376	"	"	"	"	"	U
Chrysene	ND	0.00124	0.00376	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00124	0.00376	"	"	"	"	"	U
Fluoranthene	ND	0.00124	0.00376	"	"	"	"	"	U

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Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

WH01-N@3'

11/20/2024 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

E4K0639-02 (Soil)

### PAH by 8270E SIM

Fluorene	ND	0.00124	0.00376	mg/kg dry	1	2713344	12/02/2024	12/02/2024	U
Indeno(1,2,3-cd)pyrene	ND	0.00124	0.00376	"	"	"	"	"	U
Naphthalene	ND	0.00124	0.00376	"	"	"	"	"	U
Pyrene	ND	0.00124	0.00376	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 95 % 22-135 " " "

### pH in Soil by 9045D

pH 8.20 pH Units 1 B4K2526 11/25/2024 11/26/2024

### SAR by 20B Saturated Paste

SAR 0.641 0.0100 SAR 1 B4K2513 11/25/2024 11/27/2024

### Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.300 0.00500 mmhos/cm 1 B4K2526 11/25/2024 11/26/2024

### Table 915 metals by EPA 6020B

Arsenic	2.77	0.250	mg/kg	10	B4K2138	11/21/2024	11/27/2024
Barium	163	8.61	"	"	"	"	"
Cadmium	0.0895	0.0861	"	"	"	"	"

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2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

WH01-N@3'

11/20/2024 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-02 (Soil)

### Table 915 metals by EPA 6020B

Copper	ND		8.61	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Lead	4.97		0.861	"	"	"	"	"	"
Nickel	4.26		0.861	"	"	"	"	"	"
Selenium	ND		0.224	"	"	"	"	"	"
Silver	ND		0.0861	"	"	"	"	"	"
Zinc	ND		31.8	"	"	"	"	"	"

### Total Metals by 7196A

Hexavalent Chromium	ND	0.130	0.326	mg/kg dry	1	2722474	12/19/2024	12/24/2024	U
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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**WH01-W@3'**  
**11/20/2024 10:27:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.185	0.101	mg/L	1	B4K2521	11/25/2024	11/26/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4K2201	11/22/2024	11/25/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.4 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4K2531	11/25/2024	11/26/2024	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	107 %	70-130	"	"	"	"	"	"
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Origins Laboratory



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# ORIGINS LABORATORY

Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

WH01-W@3'  
11/20/2024 10:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-03 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	106 %		70-130			B4K25 31	11/25/2024	11/26/2024	
Surrogate: 4-Bromofluorobenzene	96.4 %		70-130			"	"	"	

### Metals by Saturated Paste by EPA 6010

Calcium	1.47		0.499	meq/L	10	[CALC]	11/25/2024	11/27/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.36		0.435	"	"	"	"	"	

### PAH by 8270E SIM

1-Methylnaphthalene	ND	0.00118	0.00359	mg/kg dry	1	2713344	12/02/2024	12/02/2024	U
2-Methylnaphthalene	ND	0.00118	0.00359	"	"	"	"	"	U
Acenaphthene	ND	0.00118	0.00359	"	"	"	"	"	U
Anthracene	ND	0.00118	0.00359	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00118	0.00359	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00118	0.00359	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00118	0.00359	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00118	0.00359	"	"	"	"	"	U
Chrysene	ND	0.00118	0.00359	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00118	0.00359	"	"	"	"	"	U
Fluoranthene	ND	0.00118	0.00359	"	"	"	"	"	U

Origins Laboratory



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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

WH01-W@3'

11/20/2024 10:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

E4K0639-03 (Soil)

### PAH by 8270E SIM

Fluorene	ND	0.00118	0.00359	mg/kg dry	1	2713344	12/02/2024	12/02/2024	U
Indeno(1,2,3-cd)pyrene	ND	0.00118	0.00359	"	"	"	"	"	U
Naphthalene	ND	0.00118	0.00359	"	"	"	"	"	U
Pyrene	ND	0.00118	0.00359	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 75 % 22-135 " " "

### pH in Soil by 9045D

pH 8.22 pH Units 1 B4K2526 11/25/2024 11/26/2024

### SAR by 20B Saturated Paste

SAR 1.32 0.0100 SAR 1 B4K2513 11/25/2024 11/27/2024

### Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.396 0.00500 mmhos/cm 1 B4K2526 11/25/2024 11/26/2024

### Table 915 metals by EPA 6020B

Arsenic	5.02	0.243	mg/kg	10	B4K2138	11/21/2024	11/27/2024
Barium	177	8.36	"	"	"	"	"
Cadmium	0.156	0.0836	"	"	"	"	"

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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

WH01-W@3'

11/20/2024 10:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
E4K0639-03 (Soil)

**Table 915 metals by EPA 6020B**

Copper	ND		8.36	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Lead	5.28		0.836	"	"	"	"	"	"
Nickel	4.73		0.836	"	"	"	"	"	"
Selenium	ND		0.217	"	"	"	"	"	"
Silver	ND		0.0836	"	"	"	"	"	"
Zinc	ND		30.9	"	"	"	"	"	"

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.133	0.332	mg/kg dry	1	2722474	12/19/2024	12/24/2024	U
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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**WH01-S@3'**  
**11/20/2024 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.105	0.100	mg/L	1	B4K2521	11/25/2024	11/26/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4K2201	11/22/2024	11/25/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	83.5 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4K2531	11/25/2024	11/26/2024	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	108 %	70-130	"	"	"	"	"	"
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Origins Laboratory



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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
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WH01-S@3'

11/20/2024 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-04 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	106 %		70-130			B4K25 31	11/25/2024	11/26/2024	
Surrogate: 4-Bromofluorobenzene	97.0 %		70-130			"	"	"	

### Metals by Saturated Paste by EPA 6010

Calcium	1.30		0.499	meq/L	10	[CALC]	11/25/2024	11/27/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

### PAH by 8270E SIM

1-Methylnaphthalene	ND	0.00125	0.00378	mg/kg dry	1	2713344	12/02/2024	12/02/2024	U
2-Methylnaphthalene	ND	0.00125	0.00378	"	"	"	"	"	U
Acenaphthene	ND	0.00125	0.00378	"	"	"	"	"	U
Anthracene	ND	0.00125	0.00378	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00125	0.00378	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00125	0.00378	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00125	0.00378	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00125	0.00378	"	"	"	"	"	U
Chrysene	ND	0.00125	0.00378	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00125	0.00378	"	"	"	"	"	U
Fluoranthene	ND	0.00125	0.00378	"	"	"	"	"	U

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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

WH01-S@3'

11/20/2024 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

E4K0639-04 (Soil)

### PAH by 8270E SIM

Fluorene	ND	0.00125	0.00378	mg/kg dry	1	2713344	12/02/2024	12/02/2024	U
Indeno(1,2,3-cd)pyrene	ND	0.00125	0.00378	"	"	"	"	"	U
Naphthalene	ND	0.00125	0.00378	"	"	"	"	"	U
Pyrene	ND	0.00125	0.00378	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 71 % 22-135 " " "

### pH in Soil by 9045D

pH 8.23 pH Units 1 B4K2526 11/25/2024 11/26/2024

### SAR by 20B Saturated Paste

SAR 0.171 0.0100 SAR 1 B4K2513 11/25/2024 11/27/2024

### Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.253 0.00500 mmhos/cm 1 B4K2526 11/25/2024 11/26/2024

### Table 915 metals by EPA 6020B

Arsenic 2.75 0.261 mg/kg 10 B4K2138 11/21/2024 11/27/2024  
Barium 97.7 8.99 " " " " "

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2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

WH01-S@3'

11/20/2024 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-04 (Soil)

### Table 915 metals by EPA 6020B

Cadmium	ND		0.0899	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Copper	ND		8.99	"	"	"	"	"	"
Lead	5.27		0.899	"	"	"	"	"	"
Nickel	4.12		0.899	"	"	"	"	"	"
Selenium	ND		0.234	"	"	"	"	"	"
Silver	ND		0.0899	"	"	"	"	"	"
Zinc	ND		33.3	"	"	"	"	"	"

### Total Metals by 7196A

Hexavalent Chromium	ND	0.150	0.376	mg/kg dry	1	2722474	12/19/2024	12/24/2024	U
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# ORIGINS LABORATORY

Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**BKG01@3'**  
**11/20/2024 11:21:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-05 (Soil)

### Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4K2521	11/25/2024	11/26/2024
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### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	11/25/2024	11/27/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	7.68		pH Units	1	B4K2526	11/25/2024	11/26/2024
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### SAR by 20B Saturated Paste

SAR	0.359	0.0100	SAR	1	B4K2513	11/25/2024	11/27/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0996	0.00500	mmhos/cm	1	B4K2526	11/25/2024	11/26/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.35	0.277	mg/kg	10	B4K2138	11/21/2024	11/27/2024
Barium	84.8	9.54	"	"	"	"	"
Cadmium	0.112	0.0954	"	"	"	"	"

Origins Laboratory



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# ORIGINS LABORATORY

Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**BKG01@3'**  
**11/20/2024 11:21:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-05 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.54	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Lead	<b>6.26</b>		0.954	"	"	"	"	"	"
Nickel	<b>6.57</b>		0.954	"	"	"	"	"	"
Selenium	ND		0.248	"	"	"	"	"	"
Silver	ND		0.0954	"	"	"	"	"	"
Zinc	ND		35.3	"	"	"	"	"	"

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.165	0.412	mg/kg dry	1	2722474	12/19/2024	12/24/2024	U
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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**BKG01@6'**  
**11/20/2024 11:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0994	mg/L	1	B4K2521	11/25/2024	11/26/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.989	0.499	meq/L	10	[CALC]	11/25/2024	11/27/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.11		pH Units	1	B4K2526	11/25/2024	11/26/2024	
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**SAR by 20B Saturated Paste**

SAR	0.323	0.0100	SAR	1	B4K2513	11/25/2024	11/27/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.225	0.00500	mmhos/cm	1	B4K2526	11/25/2024	11/26/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.01	0.257	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Barium	72.1	8.85	"	"	"	"	"	
Cadmium	0.0894	0.0885	"	"	"	"	"	

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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**BKG01@6'**  
**11/20/2024 11:25:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-06 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.85	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Lead	<b>6.00</b>		0.885	"	"	"	"	"	"
Nickel	<b>4.41</b>		0.885	"	"	"	"	"	"
Selenium	ND		0.230	"	"	"	"	"	"
Silver	ND		0.0885	"	"	"	"	"	"
Zinc	ND		32.8	"	"	"	"	"	"

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.0919	0.230	mg/kg dry	1	2722474	12/19/2024	12/24/2024	U
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2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**BKG02@3'**  
**11/20/2024 11:42:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.119	0.101	mg/L	1	B4K2521	11/25/2024	11/26/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.730	0.499	meq/L	10	[CALC]	11/25/2024	11/27/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.550	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.33		pH Units	1	B4K2526	11/25/2024	11/26/2024
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**SAR by 20B Saturated Paste**

SAR	0.696	0.0100	SAR	1	B4K2513	11/25/2024	11/27/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.242	0.00500	mmhos/cm	1	B4K2526	11/25/2024	11/26/2024
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**Table 915 metals by EPA 6020B**

Arsenic	3.71	0.259	mg/kg	10	B4K2138	11/21/2024	11/27/2024
Barium	62.3	8.93	"	"	"	"	"
Cadmium	0.0974	0.0893	"	"	"	"	"
Copper	ND	8.93	"	"	"	"	"

Origins Laboratory



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Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

BKG02@3'

11/20/2024 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E4K0639-07 (Soil)

### Table 915 metals by EPA 6020B

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Lead	4.31	0.893	0.893	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Nickel	4.34	0.893	0.893	"	"	"	"	"	
Selenium	ND	0.232	0.232	"	"	"	"	"	
Silver	ND	0.0893	0.0893	"	"	"	"	"	
Zinc	ND	33.0	33.0	"	"	"	"	"	

### Total Metals by 7196A

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Hexavalent Chromium	ND	0.127	0.318	mg/kg dry	1	2722474	12/19/2024	12/24/2024	U

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Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**BKG02@6'**  
**11/20/2024 11:46:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4K2521	11/25/2024	11/26/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	11/25/2024	11/27/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	0.821	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.53		pH Units	1	B4K2526	11/25/2024	11/26/2024	
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**SAR by 20B Saturated Paste**

SAR	1.22	0.0100	SAR	1	B4K2513	11/25/2024	11/27/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.213	0.00500	mmhos/cm	1	B4K2526	11/25/2024	11/26/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	6.07	0.257	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Barium	69.7	8.88	"	"	"	"	"	
Cadmium	0.0906	0.0888	"	"	"	"	"	

Origins Laboratory



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2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**BKG02@6'**  
**11/20/2024 11:46:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-08 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.88	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Lead	<b>8.76</b>		0.888	"	"	"	"	"	"
Nickel	<b>4.55</b>		0.888	"	"	"	"	"	"
Selenium	ND		0.231	"	"	"	"	"	"
Silver	ND		0.0888	"	"	"	"	"	"
Zinc	ND		32.8	"	"	"	"	"	"

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.146	0.366	mg/kg dry	1	2722474	12/19/2024	12/24/2024	U
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Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**BKG03@3'**  
**11/20/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.108	0.100	mg/L	1	B4K2521	11/25/2024	11/26/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	11/25/2024	11/27/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	7.50		pH Units	1	B4K2526	11/25/2024	11/26/2024
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**SAR by 20B Saturated Paste**

SAR	0.231	0.0100	SAR	1	B4K2513	11/25/2024	11/27/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0924	0.00500	mmhos/cm	1	B4K2526	11/25/2024	11/26/2024
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**Table 915 metals by EPA 6020B**

Arsenic	2.79	0.251	mg/kg	10	B4K2138	11/21/2024	11/27/2024
Barium	63.0	8.65	"	"	"	"	"
Cadmium	ND	0.0865	"	"	"	"	"

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Project: Chevron - Wells Ranch AE32-640

**BKG03@3'**  
**11/20/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-09 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.65	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Lead	<b>4.88</b>		0.865	"	"	"	"	"	"
Nickel	<b>4.97</b>		0.865	"	"	"	"	"	"
Selenium	ND		0.225	"	"	"	"	"	"
Silver	ND		0.0865	"	"	"	"	"	"
Zinc	ND		32.0	"	"	"	"	"	"

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.153	0.382	mg/kg dry	1	2722474	12/19/2024	12/24/2024	U
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 Project: Chevron - Wells Ranch AE32-640

**BKG03@6'**  
**11/20/2024 12:09:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.107		0.0989	mg/L	1	B4K2521	11/25/2024	11/26/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.49		0.499	meq/L	10	[CALC]	11/25/2024	11/27/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.31			pH Units	1	B4K2526	11/25/2024	11/26/2024	
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**SAR by 20B Saturated Paste**

SAR	0.375		0.0100	SAR	1	B4K2513	11/25/2024	11/27/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.310		0.00500	mmhos/cm	1	B4K2526	11/25/2024	11/26/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.96		0.283	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Barium	95.8		9.78	"	"	"	"	"	
Cadmium	0.113		0.0978	"	"	"	"	"	
Copper	ND		9.78	"	"	"	"	"	

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Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

**BKG03@6'**  
**11/20/2024 12:09:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0639-10 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	7.18		0.978	mg/kg	10	B4K2138	11/21/2024	11/27/2024	
Nickel	7.71		0.978	"	"	"	"	"	"
Selenium	ND		0.254	"	"	"	"	"	"
Silver	ND		0.0978	"	"	"	"	"	"
Zinc	ND		36.2	"	"	"	"	"	"

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.121	0.304	mg/kg dry	1	2722474	12/19/2024	12/24/2024	U
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 Project: Chevron - Wells Ranch AE32-640

**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 B4K2201 - EPA 3550B</b>										
<b>Blank (B4K2201-BLK1)</b>										
					Prepared: 11/22/2024 Analyzed: 11/25/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		97.7	50-150			

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 Project: Chevron - Wells Ranch AE32-640

**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 B4K2201 - EPA 3550B</b>										
<b>LCS (B4K2201-BS1)</b>										
					Prepared: 11/22/2024 Analyzed: 11/25/2024					
Diesel (C10-C28)	1230	50.0	mg/kg	1000		123	70-130			
Residual Range Organics (C28-C40)	1190	200	"	1000		119	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.5	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K2201 - EPA 3550B</b>										
<b>Matrix Spike (B4K2201-MS1)</b>			<b>Source: E4K0639-01</b>			Prepared: 11/22/2024 Analyzed: 11/25/2024				
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	41		"	49.8		81.7	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K2201 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4K2201-MSD1)</b>			<b>Source: E4K0639-01</b>			Prepared: 11/22/2024 Analyzed: 11/25/2024				
Diesel (C10-C28)	1170	50.0	mg/kg	1000	ND	117	70-130	8.69	35	
Residual Range Organics (C28-C40)	1270	200	"	1000	ND	127	70-130	15.2	35	
Surrogate: o-Terphenyl	47		"	49.8		94.0	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K2531 - EPA 5030 (soil)**

**Blank (B4K2531-BLK1)**

Prepared: 11/25/2024 Analyzed: 11/26/2024

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	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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 Project Number: 3301-102  
 Project: Chevron - Wells Ranch AE32-640

**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 B4K2531 - EPA 5030 (soil)

LCS (B4K2531-BS1)

Prepared: 11/25/2024 Analyzed: 11/26/2024

1,2,4-Trimethylbenzene	0.0982	0.00200	mg/kg	0.100		98.2	70-130			
1,3,5-Trimethylbenzene	0.0990	0.00200	"	0.100		99.0	70-130			
Benzene	0.0830	0.00200	"	0.100		83.0	70-130			
Ethylbenzene	0.0993	0.00200	"	0.100		99.3	70-130			
Naphthalene	0.0986	0.00380	"	0.100		98.6	70-130			
Toluene	0.0903	0.00200	"	0.100		90.3	70-130			
o-Xylene	0.0975	0.00200	"	0.100		97.5	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Kyle Johnson  
 Project Number: 3301-102  
 Project: Chevron - Wells Ranch AE32-640

**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 B4K2531 - EPA 5030 (soil)

Matrix Spike (B4K2531-MS1)

Source: E4K0638-01

Prepared: 11/25/2024 Analyzed: 11/26/2024

1,2,4-Trimethylbenzene	0.0876	0.00200	mg/kg	0.100	ND	87.6	70-130			
1,3,5-Trimethylbenzene	0.0916	0.00200	"	0.100	ND	91.6	70-130			
Benzene	0.0773	0.00200	"	0.100	ND	77.3	70-130			
Ethylbenzene	0.0962	0.00200	"	0.100	ND	96.2	70-130			
Naphthalene	0.0697	0.00380	"	0.100	ND	69.7	70-130			QM-07
Toluene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
o-Xylene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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**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 B4K2531 - EPA 5030 (soil)

Matrix Spike Dup (B4K2531-MSD1)

Source: E4K0638-01

Prepared: 11/25/2024 Analyzed: 11/26/2024

1,2,4-Trimethylbenzene	0.0747	0.00200	mg/kg	0.100	ND	74.7	70-130	15.9	20	
1,3,5-Trimethylbenzene	0.0762	0.00200	"	0.100	ND	76.2	70-130	18.4	20	
Benzene	0.0683	0.00200	"	0.100	ND	68.3	70-130	12.4	20	QM-07
Ethylbenzene	0.0797	0.00200	"	0.100	ND	79.7	70-130	18.7	20	
Naphthalene	0.0682	0.00380	"	0.100	ND	68.2	70-130	2.12	20	QM-07
Toluene	0.0717	0.00200	"	0.100	ND	71.7	70-130	15.6	20	
o-Xylene	0.0780	0.00200	"	0.100	ND	78.0	70-130	17.0	20	
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.4	70-130	18.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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 Project Number: 3301-102  
 Project: Chevron - Wells Ranch AE32-640

**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 B4K2138 - EPA 3050B**

**Blank (B4K2138-BLK1)**

Prepared: 11/21/2024 Analyzed: 11/27/2024

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

**LCS (B4K2138-BS1)**

Prepared: 11/21/2024 Analyzed: 11/27/2024

Arsenic	5.35	0.290	mg/kg	5.00		107	80-120			
Barium	507	10.0	"	500		101	80-120			
Cadmium	5.19	0.100	"	5.00		104	80-120			
Copper	55.2	10.0	"	50.0		110	80-120			
Lead	5.28	1.00	"	5.00		106	80-120			
Nickel	5.52	1.00	"	5.00		110	80-120			
Selenium	5.05	0.260	"	5.00		101	80-120			
Silver	5.20	0.100	"	5.00		104	80-120			
Zinc	50.6	37.0	"	50.0		101	80-120			

**Matrix Spike (B4K2138-MS1)**

Source: E4K0639-01

Prepared: 11/21/2024 Analyzed: 11/27/2024

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 Denver CO 80211

Kyle Johnson  
 Project Number: 3301-102  
 Project: Chevron - Wells Ranch AE32-640

**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 B4K2138 - EPA 3050B**

**Matrix Spike (B4K2138-MS1)**

**Source: E4K0639-01**

Prepared: 11/21/2024 Analyzed: 11/27/2024

Arsenic	7.11	0.254	mg/kg	4.37	2.57	104	75-125			
Barium	497	8.74	"	437	46.8	103	75-125			
Cadmium	4.97	0.0874	"	4.37	0.0477	113	75-125			
Copper	51.3	8.74	"	43.7	2.85	111	75-125			
Lead	9.46	0.874	"	4.37	4.81	106	75-125			
Nickel	8.54	0.874	"	4.37	4.21	99.0	75-125			
Selenium	4.57	0.227	"	4.37	0.0353	104	75-125			
Silver	4.59	0.0874	"	4.37	0.0181	104	75-125			
Zinc	59.9	32.4	"	43.7	17.1	97.9	75-125			

**Matrix Spike Dup (B4K2138-MSD1)**

**Source: E4K0639-01**

Prepared: 11/21/2024 Analyzed: 11/27/2024

Arsenic	7.42	0.254	mg/kg	4.38	2.57	111	75-125	4.22	20	
Barium	547	8.76	"	438	46.8	114	75-125	9.63	20	
Cadmium	4.75	0.0876	"	4.38	0.0477	107	75-125	4.42	20	
Copper	54.1	8.76	"	43.8	2.85	117	75-125	5.34	20	
Lead	9.81	0.876	"	4.38	4.81	114	75-125	3.67	20	
Nickel	8.66	0.876	"	4.38	4.21	101	75-125	1.39	20	
Selenium	4.77	0.228	"	4.38	0.0353	108	75-125	4.22	20	
Silver	4.58	0.0876	"	4.38	0.0181	104	75-125	0.0954	20	
Zinc	63.0	32.4	"	43.8	17.1	105	75-125	5.06	20	

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Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301-102  
 Project: Chevron - Wells Ranch AE32-640

**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 B4K2511 - Saturated Paste Metals**

**Blank (B4K2511-BLK1)**

Prepared: 11/25/2024 Analyzed: 11/27/2024

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

**Duplicate (B4K2511-DUP1)**

**Source: E4K0631-01**

Prepared: 11/25/2024 Analyzed: 11/27/2024

SAR	ND	0.0100	SAR	1.58				200		
Calcium PPM	15.3	10.0	mg/L	18.0				16.1	50	
Magnesium PPM	3.58	10.0	"	4.12				14.0	50	
Sodium PPM	26.3	10.0	"	28.6				8.63	50	

**Batch B4K2513 - Saturated Paste Metals**

**Blank (B4K2513-BLK1)**

Prepared: 11/25/2024 Analyzed: 11/27/2024

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

**Duplicate (B4K2513-DUP1)**

**Source: E4K0639-02**

Prepared: 11/25/2024 Analyzed: 11/27/2024

SAR	ND	0.0100	SAR	0.641					200	
Calcium PPM	25.6	10.0	mg/L	25.5				0.0783	50	
Magnesium PPM	5.47	10.0	"	5.48				0.183	50	
Sodium PPM	14.2	10.0	"	13.7				3.80	50	

**Batch B4K2521 - DTPA Sorbitol Preparation**

**Blank (B4K2521-BLK1)**

Prepared: 11/25/2024 Analyzed: 11/26/2024

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Kyle Johnson  
 Project Number: 3301-102  
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**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 B4K2521 - DTPA Sorbitol Preparation**

**Blank (B4K2521-BLK1)**

Prepared: 11/25/2024 Analyzed: 11/26/2024

Boron ND 0.100 mg/L

**Duplicate (B4K2521-DUP1)**

**Source: E4K0638-01**

Prepared: 11/25/2024 Analyzed: 11/26/2024

Boron 0.144 0.101 mg/L 0.154 6.65 50

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**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 B4K2525 - Saturated Paste pH/EC**

**Blank (B4K2525-BLK1)**

Prepared: 11/25/2024 Analyzed: 11/26/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4K2525-DUP1)**

**Source: E4K0631-01**

Prepared: 11/25/2024 Analyzed: 11/26/2024

Specific Conductance (EC) 0.305 0.00500 mmhos/cm 0.316 3.64 25

pH 8.22 pH Units 8.21 0.122 25

**Batch B4K2526 - Saturated Paste pH/EC**

**Blank (B4K2526-BLK1)**

Prepared: 11/25/2024 Analyzed: 11/26/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4K2526-DUP1)**

**Source: E4K0639-02**

Prepared: 11/25/2024 Analyzed: 11/26/2024

pH 8.25 pH Units 8.20 0.608 25

Specific Conductance (EC) 0.316 0.00500 mmhos/cm 0.300 5.27 25

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 Project Number: 3301-102  
 Project: Chevron - Wells Ranch AE32-640

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2713344 - SW846 3541

**BLANK (1205934352-BLK)**

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

2-Methylnaphthalene	ND	0.00326	mg/kg				-			U
Benzo(k)fluoranthene	ND	0.00326	"				-			U
Benzo(b)fluoranthene	ND	0.00326	"				-			U
Benzo(a)pyrene	ND	0.00326	"				-			U
Benzo(a)anthracene	ND	0.00326	"				-			U
Anthracene	ND	0.00326	"				-			U
Fluoranthene	ND	0.00326	"				-			U
1-Methylnaphthalene	ND	0.00326	"				-			U
Acenaphthene	ND	0.00326	"				-			U
Dibenzo(a,h)anthracene	ND	0.00326	"				-			U
Fluorene	ND	0.00326	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00326	"				-			U
Naphthalene	ND	0.00326	"				-			U
Pyrene	ND	0.00326	"				-			U
Chrysene	ND	0.00326	"				-			U
Surrogate: 5-alpha-Androstane	0.128		"	0.163		79	22-135			

**LCS (1205934353-BKS)**

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

Fluoranthene	0.295	0.00330	mg/kg	0.330		89	39-119			
1-Methylnaphthalene	0.274	0.00330	"	0.330		83	39-109			
2-Methylnaphthalene	0.280	0.00330	"	0.330		85	39-110			
Acenaphthene	0.277	0.00330	"	0.330		84	41-112			
Benzo(a)pyrene	0.309	0.00330	"	0.330		94	39-127			
Benzo(b)fluoranthene	0.297	0.00330	"	0.330		90	39-123			
Benzo(k)fluoranthene	0.291	0.00330	"	0.330		88	40-122			
Anthracene	0.297	0.00330	"	0.330		90	41-117			
Fluorene	0.288	0.00330	"	0.330		87	37-115			

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 Denver CO 80211

Kyle Johnson  
 Project Number: 3301-102  
 Project: Chevron - Wells Ranch AE32-640

**PAH by 8270E SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2713344 - SW846 3541

**LCS (1205934353-BKS)**

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

Benzo(a)anthracene	0.301	0.00330	mg/kg	0.330		91	42-120			
Indeno(1,2,3-cd)pyrene	0.292	0.00330	"	0.330		88	38-133			
Naphthalene	0.272	0.00330	"	0.330		82	38-109			
Pyrene	0.291	0.00330	"	0.330		88	38-117			
Dibenzo(a,h)anthracene	0.294	0.00330	"	0.330		89	38-132			
Chrysene	0.278	0.00330	"	0.330		84	42-117			
Surrogate: 5-alpha-Androstane	0.157		"	0.165		95	22-135			

**LCSD (1205934354-BKSD)**

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

Chrysene	0.253	0.00327	mg/kg	0.327		77	42-117	9	30	
Fluorene	0.263	0.00327	"	0.327		80	37-115	9	30	
Fluoranthene	0.271	0.00327	"	0.327		83	39-119	8	30	
Anthracene	0.272	0.00327	"	0.327		83	41-117	9	30	
Benzo(a)anthracene	0.277	0.00327	"	0.327		84	42-120	8	30	
Benzo(a)pyrene	0.282	0.00327	"	0.327		86	39-127	9	30	
Benzo(k)fluoranthene	0.264	0.00327	"	0.327		81	40-122	10	30	
Pyrene	0.267	0.00327	"	0.327		82	38-117	8	30	
Dibenzo(a,h)anthracene	0.267	0.00327	"	0.327		82	38-132	10	30	
Benzo(b)fluoranthene	0.273	0.00327	"	0.327		83	39-123	8	30	
Naphthalene	0.251	0.00327	"	0.327		77	38-109	8	30	
Acenaphthene	0.255	0.00327	"	0.327		78	41-112	8	30	
2-Methylnaphthalene	0.257	0.00327	"	0.327		78	39-110	9	30	
1-Methylnaphthalene	0.251	0.00327	"	0.327		77	39-109	9	30	
Indeno(1,2,3-cd)pyrene	0.263	0.00327	"	0.327		80	38-133	10	30	
Surrogate: 5-alpha-Androstane	0.149		"	0.164		91	22-135			

Origins Laboratory

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Two Dot Consulting  
 2200 West 29th Ave  
 Denver CO 80211

Kyle Johnson  
 Project Number: 3301-102  
 Project: Chevron - Wells Ranch AE32-640

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2722474 - SW846 3060A

**BLANK (1205953227-BLK)**

Prepared: 12/19/2024 Analyzed: 12/24/2024

Hexavalent Chromium	ND	0.394	mg/kg				-			U
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**LCS (1205953228-BKS)**

Prepared: 12/19/2024 Analyzed: 12/24/2024

Hexavalent Chromium	4.01	0.397	mg/kg	3.97		101	80-120			
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**DUP (1205953229 D)**

Source: 697687001

Prepared: 12/19/2024 Analyzed: 12/24/2024

Hexavalent Chromium	ND	0.245	mg/kg dry		<0.0978		0-50	N/A	50	U
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**MS (1205953230 S)**

Source: 697687001

Prepared: 12/19/2024 Analyzed: 12/24/2024

Hexavalent Chromium	2.31	0.388	mg/kg dry	3.88	<0.155	58.7	75-125			
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**DUP (1205953231 D)**

Source: 697690001

Prepared: 12/19/2024 Analyzed: 12/24/2024

Hexavalent Chromium	ND	0.270	mg/kg dry		<0.108		0-50	N/A	50	U
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**MS (1205953232 S)**

Source: 697690001

Prepared: 12/19/2024 Analyzed: 12/24/2024

Hexavalent Chromium	2.10	0.389	mg/kg dry	3.89	<0.155	53.8	75-125			
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**ILCS (1205953233-ILCS)**

Prepared: 12/19/2024 Analyzed: 12/24/2024

Hexavalent Chromium	5.65	0.261	mg/kg	5.46		103	80-120			
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# ORIGINS LABORATORY

Two Dot Consulting  
2200 West 29th Ave  
Denver CO 80211

Kyle Johnson  
Project Number: 3301-102  
Project: Chevron - Wells Ranch AE32-640

## Notes and Definitions

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

All soil results are reported on a wet weight basis.

Origins Laboratory



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