



November 09, 2023

KP Kauffman Co. Inc.

Dan Motisi

1700 Lincoln St #4550

Denver CO 80203

Project Name - KOCH 41-6

Project Number - [none]

Attached are your analytical results for KOCH 41-6 received by Origins Laboratory, Inc. October 24, 2023. This project is associated with Origins project number Y310640-01.

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

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

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

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

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

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



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

KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background 13@5	Y310640-01	Soil	October 24, 2023 0:00	10/24/2023 14:08
Background 13@10	Y310640-02	Soil	October 24, 2023 0:00	10/24/2023 14:08
Background 14@5	Y310640-03	Soil	October 24, 2023 0:00	10/24/2023 14:08
Background 14@10	Y310640-04	Soil	October 24, 2023 0:00	10/24/2023 14:08
Background 15@5	Y310640-05	Soil	October 24, 2023 0:00	10/24/2023 14:08
Background 15@10	Y310640-06	Soil	October 24, 2023 0:00	10/24/2023 14:08
Background 16@5	Y310640-07	Soil	October 24, 2023 0:00	10/24/2023 14:08
Background 16@10	Y310640-08	Soil	October 24, 2023 0:00	10/24/2023 14:08
SW-4A@5	Y310640-09	Soil	October 24, 2023 0:00	10/24/2023 14:08
SW-4A@10	Y310640-10	Soil	October 24, 2023 0:00	10/24/2023 14:08
SW-4C@5	Y310640-11	Soil	October 24, 2023 0:00	10/24/2023 14:08
SW-4C@10	Y310640-12	Soil	October 24, 2023 0:00	10/24/2023 14:08
SW-4D@5	Y310640-13	Soil	October 24, 2023 0:00	10/24/2023 14:08
SW-4D@10	Y310640-14	Soil	October 24, 2023 0:00	10/24/2023 14:08

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-4E@5	Y310640-15	Soil	October 24, 2023 0:00	10/24/2023 14:08
SW-4E@10	Y310640-16	Soil	October 24, 2023 0:00	10/24/2023 14:08

Origins Laboratory, Inc.



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1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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page 1 of 2

Y310440

ORIGINS LABORATORY, INC

Client: KP Kauffman
Address: 1700 Lincoln Street, Denver, CO
Telephone Number: 3039090875
Email Address: jpeter@kpk.com

Project Manager: Dan Motisi
Project Name: Koch 41-6
Project Number:
Samples Collected By: jpeter@kpk.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
Background 13 C-5	10-24-23		2	Unpreserved	Soil	Table 915-1 Sulfonamides	1
Background 13 C-10			2	Unpreserved	Soil		2
Background 14 C-5			2	Unpreserved	Soil		3
Background 14 C-10			2	Unpreserved	Soil		4
Background 15 C-5			2	Unpreserved	Soil		5
Background 15 C-10			2	Unpreserved	Soil		6
Background 16 C-5			2	Unpreserved	Soil		7
Background 16 C-10			2	Unpreserved	Soil		8
							9
							10
Relinquished By: [Signature]	Date: 10-24-23	Time: 1410		Received By: [Signature]	Date: 10/25/23	Time: 14:08	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished By:	Date:	Time:		Received By:	Date:	Time:	

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

Origins Laboratory, Inc.

J. Bynon

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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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page 2 of 2

Y310640

ORIGINS LABORATORY, INC

Client: KP Kauffman
Address: 1700 Lincoln Street, Denver, CO
Telephone Number: 3039090875
Email Address: jpeterson@kpk.com

Project Manager: Dan Motisi
Project Name: KOCH 41-6
Project Number:
Samples Collected By: jpeterson@kpk.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
SW-4A-C5	10-24-23		3						X			Organics only
SW-4A-B10			3						X			
SW-4A-B5			2						X			915-1 Organics only
SW-4A-C5			3						X			
SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
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SW-4A-B10			3						X			
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SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
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SW-4A-B5			3						X			
SW-4A-B10			3						X			
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SW-4A-B10			3						X			
SW-4A-B5			3						X			
SW-4A-B10			3						X			
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SW-4A-B10			3						X			
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SW-4A-B10			3						X			
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SW-4A-B10			3						X			
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SW-4A-B5			3						X			
SW-4A-B10			3						X			</

KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y310640

Client: KP Kauffman

Client Project ID: Koch 41-6

Checklist Completed by: AN/EHS

Shipped Via: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10/25/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 4.1 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T004

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Sample times
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<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]

Date/Time Reviewed 10/25/23

Origins Laboratory, Inc.

[Signature]

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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 13@5
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.193	0.100	mg/L	1	B3J3011	10/30/2023	10/31/2023
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Metals by Saturated Paste by EPA 6010

Calcium	5.05	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	2.33	0.823	"	"	"	"	"
Sodium	1.86	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.00		pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.971	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.972	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Arsenic	4.83	0.0888	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	198	8.88	"	"	"	"	"
Cadmium	0.376	0.0888	"	"	"	"	"
Copper	13.8	8.88	"	"	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 13@5
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-01 (Soil)

Table 915 metals by EPA 6020B

Lead	14.4	8.88	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Nickel	15.8	8.88	"	"	"	"	"
Selenium	0.273	0.0888	"	"	"	"	"
Silver	ND	0.0888	"	"	"	"	"
Zinc	ND	88.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	0.258	0.117	0.293	mg/kg dry	1	2520387	11/07/2023	11/08/2023	J
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Backaround 13@10
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.142	0.0994	mg/L	1	B3J3011	10/30/2023	10/31/2023
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Metals by Saturated Paste by EPA 6010

Calcium	2.36	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	1.00	0.823	"	"	"	"	"
Sodium	0.754	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.05		pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.581	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.528	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Arsenic	5.60	0.0903	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	141	9.03	"	"	"	"	"
Cadmium	0.132	0.0903	"	"	"	"	"
Copper	12.9	9.03	"	"	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 13@10
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-02 (Soil)

Table 915 metals by EPA 6020B

Lead	12.7	9.03	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Nickel	18.5	9.03	"	"	"	"	"
Selenium	0.242	0.0903	"	"	"	"	"
Silver	ND	0.0903	"	"	"	"	"
Zinc	ND	90.3	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.109	0.273	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 14@5
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.128	0.101	mg/L	1	B3J3012	10/30/2023	10/31/2023
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Metals by Saturated Paste by EPA 6010

Calcium	3.04	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	1.06	0.823	"	"	"	"	"
Sodium	2.01	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.19		pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	1.41	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.733	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Arsenic	4.96	0.0863	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	68.7	8.63	"	"	"	"	"
Cadmium	0.141	0.0863	"	"	"	"	"
Copper	ND	8.63	"	"	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 14@5
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-03 (Soil)

Table 915 metals by EPA 6020B

Lead	9.28	8.63	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Nickel	10.3	8.63	"	"	"	"	"
Selenium	0.112	0.0863	"	"	"	"	"
Silver	ND	0.0863	"	"	"	"	"
Zinc	ND	86.3	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.141	0.352	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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

KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 14@10
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.110	0.102	mg/L	1	B3J3012	10/30/2023	10/31/2023
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Metals by Saturated Paste by EPA 6010

Calcium	2.07	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.600	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.23	pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.510	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.377	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Arsenic	5.43	0.0850	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	143	8.50	"	"	"	"	"
Cadmium	0.158	0.0850	"	"	"	"	"
Copper	10.8	8.50	"	"	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 14@10
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-04 (Soil)

Table 915 metals by EPA 6020B

Lead	10.4	8.50	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Nickel	16.2	8.50	"	"	"	"	"
Selenium	0.120	0.0850	"	"	"	"	"
Silver	ND	0.0850	"	"	"	"	"
Zinc	ND	85.0	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.178	0.444	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 15@5
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.113	0.102	mg/L	1	B3J3012	10/30/2023	10/31/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.96	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	1.15	0.823	"	"	"	"	"
Sodium	1.11	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.45	pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.888	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.598	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Arsenic	4.72	0.0921	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	99.9	9.21	"	"	"	"	"
Cadmium	0.153	0.0921	"	"	"	"	"
Copper	11.0	9.21	"	"	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 15@5
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-05 (Soil)

Table 915 metals by EPA 6020B

Lead	10.7	9.21	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Nickel	16.3	9.21	"	"	"	"	"
Selenium	0.263	0.0921	"	"	"	"	"
Silver	ND	0.0921	"	"	"	"	"
Zinc	ND	92.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.129	0.323	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 15@10
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.147	0.0985	mg/L	1	B3J3012	10/30/2023	10/31/2023
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Metals by Saturated Paste by EPA 6010

Calcium	7.03	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	2.57	0.823	"	"	"	"	"
Sodium	1.00	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.01		pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.458	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.24	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Arsenic	5.69	0.0842	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	142	8.42	"	"	"	"	"
Cadmium	0.230	0.0842	"	"	"	"	"
Copper	12.9	8.42	"	"	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 15@10
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-06 (Soil)

Table 915 metals by EPA 6020B

Lead	13.3	8.42	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Nickel	18.2	8.42	"	"	"	"	"
Selenium	0.155	0.0842	"	"	"	"	"
Silver	ND	0.0842	"	"	"	"	"
Zinc	ND	84.2	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.134	0.336	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 16@5
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.216	0.102	mg/L	1	B3J3012	10/30/2023	10/31/2023
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Metals by Saturated Paste by EPA 6010

Calcium	4.52	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	1.86	0.823	"	"	"	"	"
Sodium	2.49	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.23		pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	1.39	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.935	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Arsenic	4.70	0.0921	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	105	9.21	"	"	"	"	"
Cadmium	0.166	0.0921	"	"	"	"	"
Copper	10.7	9.21	"	"	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 16@5
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-07 (Soil)

Table 915 metals by EPA 6020B

Lead	11.2	9.21	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Nickel	13.4	9.21	"	"	"	"	"
Selenium	0.158	0.0921	"	"	"	"	"
Silver	ND	0.0921	"	"	"	"	"
Zinc	ND	92.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.107	0.267	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Backaround 16@10
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.155	0.0983	mg/L	1	B3J3012	10/30/2023	10/31/2023
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Metals by Saturated Paste by EPA 6010

Calcium	3.37	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	1.31	0.823	"	"	"	"	"
Sodium	1.89	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.22		pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	1.24	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.745	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Arsenic	4.34	0.0874	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	115	8.74	"	"	"	"	"
Cadmium	0.153	0.0874	"	"	"	"	"
Copper	11.2	8.74	"	"	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Background 16@10
10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-08 (Soil)

Table 915 metals by EPA 6020B

Lead	10.1	8.74	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Nickel	14.1	8.74	"	"	"	"	"
Selenium	0.129	0.0874	"	"	"	"	"
Silver	ND	0.0874	"	"	"	"	"
Zinc	ND	87.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.126	0.315	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4A@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.142	0.101	mg/L	1	B3J3012	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2602	10/26/2023	10/27/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	91.0 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2445	10/24/2023	10/25/2023	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	84.6 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4A@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.0 %	70-130	B3J24 45	10/24/2023	10/25/2023
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.84	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	1.05	0.823	"	"	"	"	"
Sodium	0.702	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.036	0.002	mg/kg	1	B3J2641	10/26/2023	11/02/2023	
2-Methylnaphthalene	0.047	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4A@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-09 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3J2641	10/26/2023	11/02/2023	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	0.004	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.2 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.21	pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.585	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.402	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4A@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-09 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.07	0.0898	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	83.4	8.98	"	"	"	"	"
Cadmium	0.154	0.0898	"	"	"	"	"
Copper	ND	8.98	"	"	"	"	"
Lead	11.7	8.98	"	"	"	"	"
Nickel	11.0	8.98	"	"	"	"	"
Selenium	0.169	0.0898	"	"	"	"	"
Silver	ND	0.0898	"	"	"	"	"
Zinc	ND	89.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.157	0.392	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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

KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4A@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.109	0.101	mg/L	1	B3J3012	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2602	10/26/2023	10/27/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.5 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2445	10/24/2023	10/25/2023	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	85.0 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4A@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.6 %	70-130	B3J24 45	10/24/2023	10/25/2023
Surrogate: 4-Bromofluorobenzene	94.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.43	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.836	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	10/26/2023	11/02/2023	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4A@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-10 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3J2641	10/26/2023	11/02/2023	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.3 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.26	pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.867	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.304	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4A@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-10 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.66	0.0903	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	221	9.03	"	"	"	"	"
Cadmium	0.147	0.0903	"	"	"	"	"
Copper	10.7	9.03	"	"	"	"	"
Lead	10.1	9.03	"	"	"	"	"
Nickel	14.9	9.03	"	"	"	"	"
Selenium	0.189	0.0903	"	"	"	"	"
Silver	ND	0.0903	"	"	"	"	"
Zinc	ND	90.3	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.152	0.379	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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

KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4C@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.123	0.101	mg/L	1	B3J3012	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2602	10/26/2023	10/27/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.1 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2510	10/25/2023	10/26/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4C@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-11 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.3 %	70-130	B3J25 10	10/25/2023	10/26/2023
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.13	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.685	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	10/26/2023	11/02/2023	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4C@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-11 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3J2641	10/26/2023	11/02/2023	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.82	pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.720	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.272	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4C@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-11 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.50	0.0903	mg/kg	10	B3J2442	10/24/2023	10/26/2023
Barium	104	9.03	"	"	"	"	"
Cadmium	0.136	0.0903	"	"	"	"	"
Copper	9.51	9.03	"	"	"	"	"
Lead	9.19	9.03	"	"	"	"	"
Nickel	15.5	9.03	"	"	"	"	"
Selenium	0.107	0.0903	"	"	"	"	"
Silver	ND	0.0903	"	"	"	"	"
Zinc	ND	90.3	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	0.183	0.165	0.413	mg/kg dry	1	2520387	11/07/2023	11/08/2023	J
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Origins Laboratory, Inc.



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

KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4C@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.175	0.102	mg/L	1	B3J3012	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2602	10/26/2023	10/27/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.6 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2510	10/25/2023	10/26/2023	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, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4C@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-12 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.7 %	70-130	B3J25 10	10/25/2023	10/26/2023
Surrogate: 4-Bromofluorobenzene	94.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.45	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	0.960	0.823	"	"	"	"	"
Sodium	0.837	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	10/26/2023	11/02/2023	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4C@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-12 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3J2641	10/26/2023	11/02/2023	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.2 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.27	pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.641	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.472	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4C@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-12 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.55	0.0891	mg/kg	10	B3J2442	10/24/2023	10/27/2023
Barium	119	8.91	"	"	"	"	"
Cadmium	0.167	0.0891	"	"	"	"	"
Copper	17.0	8.91	"	"	"	"	"
Lead	10.5	8.91	"	"	"	"	"
Nickel	15.9	8.91	"	"	"	"	"
Selenium	ND	0.0891	"	"	"	"	"
Silver	ND	0.0891	"	"	"	"	"
Zinc	ND	89.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.149	0.373	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4D@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.302	0.0985	mg/L	1	B3J3012	10/30/2023	10/31/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	84.6	25.0	mg/kg	1	B3J2602	10/26/2023	10/27/2023
Residual Range Organics (C28-C40)	324	100	"	"	"	"	"

Surrogate: o-Terphenyl	86.3 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2510	10/25/2023	10/26/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	95.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4D@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-13 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	96.7 %	70-130	B3J25 10	10/25/2023	10/26/2023
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Metals by Saturated Paste by EPA 6010

Calcium	8.77	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	3.48	0.823	"	"	"	"	"
Sodium	21.1	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	10/26/2023	11/03/2023	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4D@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-13 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B3J2641	10/26/2023	11/03/2023	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.7 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.25	pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	8.54	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.23	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Arsenic	7.93	0.0874	mg/kg	10	B3J2442	10/24/2023	10/27/2023
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4D@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-13 (Soil)

Table 915 metals by EPA 6020B

Barium	115	8.74	mg/kg	10	B3J2442	10/24/2023	10/27/2023
Cadmium	0.236	0.0874	"	"	"	"	"
Copper	17.1	8.74	"	"	"	"	"
Lead	17.8	8.74	"	"	"	"	"
Nickel	11.7	8.74	"	"	"	"	"
Selenium	0.182	0.0874	"	"	"	"	"
Silver	ND	0.0874	"	"	"	"	"
Zinc	ND	87.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.124	0.309	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4D@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-14 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3J3012	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2602	10/26/2023	10/27/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.5 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2510	10/25/2023	10/26/2023	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	110 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4D@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-14 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.5 %	70-130	B3J25 10	10/25/2023	10/26/2023
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.01	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.28	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	10/26/2023	11/03/2023	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4D@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-14 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3J2641	10/26/2023	11/03/2023	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	86.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.35	pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	5.18	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.678	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4D@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-14 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.35	0.0948	mg/kg	10	B3J2442	10/24/2023	10/27/2023
Barium	190	9.48	"	"	"	"	"
Cadmium	0.155	0.0948	"	"	"	"	"
Copper	14.5	9.48	"	"	"	"	"
Lead	10.7	9.48	"	"	"	"	"
Nickel	15.1	9.48	"	"	"	"	"
Selenium	0.181	0.0948	"	"	"	"	"
Silver	ND	0.0948	"	"	"	"	"
Zinc	ND	94.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.178	0.446	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4E@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-15 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3J3012	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2602	10/26/2023	10/27/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2510	10/25/2023	10/26/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4E@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-15 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.7 %	70-130	B3J25 10	10/25/2023	10/26/2023
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.933	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	10/26/2023	11/03/2023	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4E@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-15 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3J2641	10/26/2023	11/03/2023	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.8 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.51	pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.350	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.243	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4E@5

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-15 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.24	0.0865	mg/kg	10	B3J2442	10/24/2023	10/27/2023
Barium	81.1	8.65	"	"	"	"	"
Cadmium	ND	0.0865	"	"	"	"	"
Copper	9.42	8.65	"	"	"	"	"
Lead	ND	8.65	"	"	"	"	"
Nickel	11.3	8.65	"	"	"	"	"
Selenium	0.100	0.0865	"	"	"	"	"
Silver	ND	0.0865	"	"	"	"	"
Zinc	ND	86.5	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.146	0.364	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4E@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-16 (Soil)

Boron (DTPA Sorbitol)

Boron	0.174	0.102	mg/L	1	B3J3012	10/30/2023	10/31/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2602	10/26/2023	10/27/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	87.7 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2510	10/25/2023	10/26/2023	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	113 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4E@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-16 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.8 %	70-130	B3J25 10	10/25/2023	10/26/2023
Surrogate: 4-Bromofluorobenzene	94.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.53	0.499	meq/L	10	[CALC]	10/28/2023	11/02/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.918	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2641	10/26/2023	11/03/2023	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4E@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310640-16 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3J2641	10/26/2023	11/03/2023	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	87.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.9 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.31	pH Units	1	B3J2807	10/28/2023	10/29/2023
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SAR by 20B Saturated Paste

SAR	0.711	0.0100	SAR	1	B3J2804	10/28/2023	11/02/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.475	0.00500	mmhos/cm	1	B3K0116	11/01/2023	11/02/2023
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Table 915 metals by EPA 6020B

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Dan Motisi
Project Number: [none]
Project: KOCH 41-6

SW-4E@10

10/24/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310640-16 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.60	0.0921	mg/kg	10	B3J2442	10/24/2023	10/27/2023
Barium	102	9.21	"	"	"	"	"
Cadmium	0.118	0.0921	"	"	"	"	"
Copper	11.4	9.21	"	"	"	"	"
Lead	ND	9.21	"	"	"	"	"
Nickel	13.0	9.21	"	"	"	"	"
Selenium	ND	0.0921	"	"	"	"	"
Silver	ND	0.0921	"	"	"	"	"
Zinc	ND	92.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.145	0.363	mg/kg dry	1	2520387	11/07/2023	11/08/2023	U
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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2445 - EPA 5030 (soil)										
Blank (B3J2445-BLK1)					Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.3	70-130			

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Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2445 - EPA 5030 (soil)										
LCS (B3J2445-BS1)					Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.0937	0.00200	"	0.100		93.7	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.0943	0.00200	"	0.100		94.3	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.205	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2445 - EPA 5030 (soil)										
Matrix Spike (B3J2445-MS1)		Source: Y310622-01			Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	0.0988	0.00200	mg/kg	0.100	ND	98.8	70-130			
1,3,5-Trimethylbenzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Benzene	0.0957	0.00200	"	0.100	ND	95.7	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0997	0.00380	"	0.100	ND	99.7	70-130			
Toluene	0.0936	0.00200	"	0.100	ND	93.6	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2445 - EPA 5030 (soil)										
Matrix Spike Dup (B3J2445-MSD1)			Source: Y310622-01		Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130	3.81	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	3.63	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	5.94	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	5.32	20	
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130	7.12	20	
Toluene	0.0983	0.00200	"	0.100	ND	98.3	70-130	4.92	20	
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130	5.65	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	5.06	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2510 - EPA 5030 (soil)										
Blank (B3J2510-BLK1)					Prepared: 10/25/2023 Analyzed: 10/26/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.7		70-130			

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Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2510 - EPA 5030 (soil)										
LCS (B3J2510-BS1)					Prepared: 10/25/2023 Analyzed: 10/26/2023					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.112	0.00380	"	0.100		112	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2510 - EPA 5030 (soil)										
Matrix Spike (B3J2510-MS1)		Source: Y310640-11			Prepared: 10/25/2023 Analyzed: 10/26/2023					
1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100	ND	99.7	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Ethylbenzene	0.0991	0.00200	"	0.100	ND	99.1	70-130			
Naphthalene	0.0799	0.00380	"	0.100	0.00108	78.8	70-130			
Toluene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

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Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2510 - EPA 5030 (soil)										
Matrix Spike Dup (B3J2510-MSD1)		Source: Y310640-11			Prepared: 10/25/2023 Analyzed: 10/26/2023					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	5.94	20	
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	5.08	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	9.82	20	
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	4.71	20	
Naphthalene	0.0932	0.00380	"	0.100	0.00108	92.1	70-130	15.4	20	
Toluene	0.0995	0.00200	"	0.100	ND	99.5	70-130	5.54	20	
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130	5.85	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	5.05	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2602 - EPA 3550B										
Blank (B3J2602-BLK1)					Prepared: 10/26/2023 Analyzed: 10/27/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

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Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2602 - EPA 3550B

LCS (B3J2602-BS1)

Prepared: 10/26/2023 Analyzed: 10/27/2023

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2602 - EPA 3550B										
Matrix Spike (B3J2602-MS1)		Source: Y310640-09			Prepared: 10/26/2023 Analyzed: 10/27/2023					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	45		"	49.8		89.8	50-150			

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KP Kauffman Co. Inc.
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Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2602 - EPA 3550B										
Matrix Spike Dup (B3J2602-MSD1)			Source: Y310640-09		Prepared: 10/26/2023 Analyzed: 10/27/2023					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	1.11	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	0.537	35	
Surrogate: o-Terphenyl	42		"	49.8		85.4	50-150			

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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2442 - EPA 3050B

Blank (B3J2442-BLK1)

Prepared: 10/24/2023 Analyzed: 10/26/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

LCS (B3J2442-BS1)

Prepared: 10/24/2023 Analyzed: 10/26/2023

Arsenic	0.0575	0.000100	mg/kg	0.0500	115	80-120
Barium	5.37	0.0100	"	5.00	107	80-120
Cadmium	0.0545	0.000100	"	0.0500	109	80-120
Copper	0.527	0.0100	"	0.500	105	80-120
Lead	0.0535	0.0100	"	0.0500	107	80-120
Nickel	0.0573	0.0100	"	0.0500	115	80-120
Selenium	0.0486	0.000100	"	0.0500	97.1	80-120
Silver	0.0560	0.000100	"	0.0500	112	80-120
Zinc	0.503	0.100	"	0.500	101	80-120

Matrix Spike (B3J2442-MS1)

Source: Y310640-01

Prepared: 10/24/2023 Analyzed: 10/26/2023

Origins Laboratory, Inc.



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Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2442 - EPA 3050B										
Matrix Spike (B3J2442-MS1)		Source: Y310640-01			Prepared: 10/24/2023 Analyzed: 10/26/2023					
Arsenic	9.58	0.0882	mg/kg	4.41	4.83	108	75-125			
Barium	665	8.82	"	441	198	106	75-125			
Cadmium	5.21	0.0882	"	4.41	0.376	110	75-125			
Copper	54.4	8.82	"	44.1	13.8	92.1	75-125			
Lead	18.8	8.82	"	4.41	14.4	98.9	75-125			
Nickel	20.2	8.82	"	4.41	15.8	99.9	75-125			
Selenium	4.61	0.0882	"	4.41	0.273	98.4	75-125			
Silver	5.11	0.0882	"	4.41	0.0550	115	75-125			
Zinc	128	88.2	"	44.1	81.3	105	75-125			
Matrix Spike Dup (B3J2442-MSD1)		Source: Y310640-01			Prepared: 10/24/2023 Analyzed: 10/26/2023					
Arsenic	10.2	0.0911	mg/kg	4.56	4.83	118	75-125	6.32	20	
Barium	765	9.11	"	456	198	124	75-125	14.0	20	
Cadmium	5.81	0.0911	"	4.56	0.376	119	75-125	10.9	20	
Copper	58.9	9.11	"	45.6	13.8	99.1	75-125	8.09	20	
Lead	20.1	9.11	"	4.56	14.4	124	75-125	6.62	20	
Nickel	22.0	9.11	"	4.56	15.8	136	75-125	8.45	20	QM-07
Selenium	4.85	0.0911	"	4.56	0.273	101	75-125	5.15	20	
Silver	5.58	0.0911	"	4.56	0.0550	121	75-125	8.86	20	
Zinc	138	91.1	"	45.6	81.3	124	75-125	7.45	20	

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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2641 - EPA 3580

Blank (B3J2641-BLK1)

Prepared: 10/26/2023 Analyzed: 11/02/2023

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	102	60-130
Surrogate: Anthracene-d10	200		"	200	100	60-130
Surrogate: Pyrene-d10	170		"	200	83.5	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	98.1	60-130

LCS (B3J2641-BS1)

Prepared: 10/26/2023 Analyzed: 11/02/2023

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200	93.8	70-130
2-Methylnaphthalene	0.187	0.002	"	0.200	93.4	70-130
Acenaphthene	0.184	0.020	"	0.200	91.9	70-130
Anthracene	0.171	0.020	"	0.200	85.3	70-130

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2641 - EPA 3580

LCS (B3J2641-BS1)

Prepared: 10/26/2023 Analyzed: 11/02/2023

Benzo (a) anthracene	0.178	0.005	mg/kg	0.200		88.9	70-130
Benzo (a) pyrene	0.181	0.020	"	0.200		90.7	70-130
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.7	70-130
Benzo (g,h,i) perylene	0.191	0.020	"	0.200		95.7	70-130
Benzo (k) fluoranthene	0.165	0.020	"	0.200		82.4	70-130
Chrysene	0.188	0.020	"	0.200		94.0	70-130
Dibenz (a,h) anthracene	0.198	0.020	"	0.200		98.8	70-130
Fluoranthene	0.208	0.020	"	0.200		104	70-130
Fluorene	0.187	0.020	"	0.200		93.7	70-130
Indeno (1,2,3-cd) pyrene	0.179	0.020	"	0.200		89.6	70-130
Naphthalene	0.188	0.002	"	0.200		93.8	70-130
Phenanthrene	0.176	0.020	"	0.200		88.2	70-130
Pyrene	0.152	0.020	"	0.200		76.0	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	200		"	200		98.6	60-130
Surrogate: Pyrene-d10	160		"	200		80.8	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

Matrix Spike (B3J2641-MS1)

Source: Y310640-09

Prepared: 10/26/2023 Analyzed: 11/02/2023

1-Methylnaphthalene	0.218	0.002	mg/kg	0.200	0.036	91.1	70-130
2-Methylnaphthalene	0.230	0.002	"	0.200	0.047	91.1	70-130
Acenaphthene	0.196	0.020	"	0.200	0.017	89.3	70-130
Anthracene	0.167	0.020	"	0.200	0.003	82.0	70-130
Benzo (a) anthracene	0.184	0.005	"	0.200	ND	92.0	70-130
Benzo (a) pyrene	0.182	0.020	"	0.200	ND	91.1	70-130
Benzo (b) fluoranthene	0.178	0.020	"	0.200	ND	89.1	70-130
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.6	70-130

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2641 - EPA 3580

Matrix Spike (B3J2641-MS1)		Source: Y310640-09			Prepared: 10/26/2023 Analyzed: 11/02/2023					
Benzo (k) fluoranthene	0.170	0.020	mg/kg	0.200	ND	84.9	70-130			
Chrysene	0.181	0.020	"	0.200	ND	90.4	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	97.8	70-130			
Fluoranthene	0.195	0.020	"	0.200	0.001	97.2	70-130			
Fluorene	0.199	0.020	"	0.200	0.019	89.9	70-130			
Indeno (1,2,3-cd) pyrene	0.166	0.020	"	0.200	ND	83.1	70-130			
Naphthalene	0.192	0.002	"	0.200	0.004	94.1	70-130			
Phenanthrene	0.190	0.020	"	0.200	0.029	80.7	70-130			
Pyrene	0.162	0.020	"	0.200	0.003	79.5	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	170		"	200		84.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B3J2641-MSD1)		Source: Y310640-09			Prepared: 10/26/2023 Analyzed: 11/02/2023					
1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	0.036	93.7	70-130	2.36	20	
2-Methylnaphthalene	0.239	0.002	"	0.200	0.047	96.0	70-130	4.18	20	
Acenaphthene	0.204	0.020	"	0.200	0.017	93.5	70-130	4.16	20	
Anthracene	0.173	0.020	"	0.200	0.003	85.0	70-130	3.54	20	
Benzo (a) anthracene	0.185	0.005	"	0.200	ND	92.7	70-130	0.712	20	
Benzo (a) pyrene	0.180	0.020	"	0.200	ND	89.8	70-130	1.48	20	
Benzo (b) fluoranthene	0.178	0.020	"	0.200	ND	88.9	70-130	0.150	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.5	70-130	0.145	20	
Benzo (k) fluoranthene	0.165	0.020	"	0.200	ND	82.5	70-130	2.82	20	
Chrysene	0.175	0.020	"	0.200	ND	87.5	70-130	3.29	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.7	70-130	1.09	20	
Fluoranthene	0.183	0.020	"	0.200	0.001	91.2	70-130	6.37	20	

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
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Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2641 - EPA 3580

Matrix Spike Dup (B3J2641-MSD1)		Source: Y310640-09			Prepared: 10/26/2023 Analyzed: 11/02/2023					
Fluorene	0.206	0.020	mg/kg	0.200	0.019	93.3	70-130	3.36	20	
Indeno (1,2,3-cd) pyrene	0.177	0.020	"	0.200	ND	88.7	70-130	6.43	20	
Naphthalene	0.190	0.002	"	0.200	0.004	93.0	70-130	1.19	20	
Phenanthrene	0.205	0.020	"	0.200	0.029	87.8	70-130	7.19	20	
Pyrene	0.162	0.020	"	0.200	0.003	79.3	70-130	0.323	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		96.4	60-130			
Surrogate: Pyrene-d10	170		"	200		83.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.4	60-130			

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2804 - Saturated Paste Metals

Blank (B3J2804-BLK1)

Prepared: 10/28/2023 Analyzed: 11/02/2023

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

Duplicate (B3J2804-DUP1)

Source: Y310640-02

Prepared: 10/28/2023 Analyzed: 11/02/2023

SAR	ND	0.0100	SAR	0.581			200
Calcium PPM	52.8	10.0	mg/L	47.4		10.8	50
Magnesium PPM	13.2	10.0	"	12.2		7.94	50
Sodium PPM	19.4	10.0	"	17.3		11.2	50

Batch B3J3011 - DTPA Sorbitol Preparation

Blank (B3J3011-BLK1)

Prepared: 10/30/2023 Analyzed: 10/31/2023

Boron	ND	0.100	mg/L
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Duplicate (B3J3011-DUP1)

Source: Y310640-01

Prepared: 10/30/2023 Analyzed: 10/31/2023

Boron	0.181	0.100	mg/L	0.193		6.84	50
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Batch B3J3012 - DTPA Sorbitol Preparation

Blank (B3J3012-BLK1)

Prepared: 10/30/2023 Analyzed: 10/31/2023

Boron	ND	0.100	mg/L
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Duplicate (B3J3012-DUP1)

Source: Y310640-03

Prepared: 10/30/2023 Analyzed: 10/31/2023

Boron	0.118	0.102	mg/L	0.128		7.80	50
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Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2807 - Saturated Paste pH/EC										
Duplicate (B3J2807-DUP1)		Source: Y310640-01			Prepared: 10/28/2023 Analyzed: 10/29/2023					
pH	8.19		pH Units		8.00			2.35	25	
Batch B3K0116 - Saturated Paste pH/EC										
Blank (B3K0116-BLK1)		Prepared: 11/01/2023 Analyzed: 11/02/2023								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3K0116-DUP1)		Source: Y310640-02			Prepared: 11/01/2023 Analyzed: 11/02/2023					
Specific Conductance (EC)	0.556	0.00500	mmhos/cm		0.528			5.24	25	

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2520387 - SW846 3060A										
BLANK (1205567018-BLK)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	ND	0.327	mg/kg				-			U
LCS (1205567019-BKS)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	3.05	0.307	mg/kg	3.07		99.3	80-120			
DUP (1205567020 D)					Source: 642986001 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	ND	0.353	mg/kg dry		<0.141		0-50	N/A	50	U
MS (1205567021 S)					Source: 642986001 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	2.97	0.353	mg/kg dry	3.53	<0.141	82.9	75-125			
DUP (1205567022 D)					Source: Y310640-07 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	ND	0.270	mg/kg dry		<0.108		0-50	N/A	50	U
MS (1205567023 S)					Source: Y310640-07 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	1.71	0.270	mg/kg dry	2.70	<0.108	61.1	75-125			
ILCS (1205567024-ILCS)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	7.70	0.379	mg/kg	7.94		96.9	80-120			

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

Dan Motisi
Project Number: [none]
Project: KOCH 41-6

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.

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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