



December 14, 2022

KP Kauffman Co. Inc.

Levi Kirk

1700 Lincoln St #4550

Denver CO 80203

Project Name - KOCH 41-6

Project Number - -

Attached are your analytical results for KOCH 41-6 received by Origins Laboratory, Inc. December 06, 2022. This project is associated with Origins project number Y212127-01.

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BACKGROUND-1@4'	Y212127-01	Soil	December 5, 2022 12:00	12/06/2022 15:50
BACKGROUND-2@4'	Y212127-02	Soil	December 5, 2022 12:05	12/06/2022 15:50
BACKGROUND-3@4'	Y212127-03	Soil	December 5, 2022 12:10	12/06/2022 15:50
BACKGROUND-4@4'	Y212127-04	Soil	December 5, 2022 12:15	12/06/2022 15:50
BACKGROUND-5@4'	Y212127-05	Soil	December 5, 2022 12:20	12/06/2022 15:50
BACKGROUND-6@4'	Y212127-06	Soil	December 5, 2022 12:25	12/06/2022 15:50
BACKGROUND-7@4'	Y212127-07	Soil	December 5, 2022 12:30	12/06/2022 15:50
BACKGROUND-8@4'	Y212127-08	Soil	December 5, 2022 12:35	12/06/2022 15:50
BACKGROUND-9@4'	Y212127-09	Soil	December 5, 2022 12:40	12/06/2022 15:50
BACKGROUND-10@4'	Y212127-10	Soil	December 5, 2022 12:45	12/06/2022 15:50
BACKGROUND-11@4'	Y212127-11	Soil	December 5, 2022 12:50	12/06/2022 15:50
BACKGROUND-12@4'	Y212127-12	Soil	December 5, 2022 13:00	12/06/2022 15:50

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

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Client: K. P. Kauffman
Address: 1675 Broadway Denver, CO 80202

Project Manager: Levi Kirk
Project Name: KOCH 41-6
Project Number:
Samples Collected By: E.S. & B.D.

Telephone Number: 303.825.4822
Email Address: PrimaryContractor@marcomllc.net

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Aspirate		
BACKGROUNDS - 1 @ 4"	12-5-02	1200	2	X					X		TABLE 915	1
BACKGROUNDS - 2 @ 4"		1205	1								100% acid	2
BACKGROUNDS - 3 @ 4"		1210	1									3
BACKGROUNDS - 4 @ 4"		1215	1									4
BACKGROUNDS - 5 @ 4"		1220	1									5
BACKGROUNDS - 6 @ 4"		1225	1									6
BACKGROUNDS - 7 @ 4"		1230	1									7
BACKGROUNDS - 8 @ 4"		1235	1									8
BACKGROUNDS - 9 @ 4"		1240	1									9
BACKGROUNDS - 10 @ 4"		1245	1									10
Relinquished By:	Date: 12-6-02	Time: 1500		Received By:	Date: 12/6/02	Time: 1550		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard				
Relinquished By:	Date:	Time:		Received By:	Date:	Time:						

Date Results Needed

5

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

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page 2 of 2

ORIGINS
LABORATORY, INC

Client: K. P. Kauffman
Address: 1675 Broadway Denver, CO 80202
Telephone Number: 303.825.4822
Email Address: PrimaryContractor@marcomilc.net

Project Manager: Levi Kirk
Project Name: KOCH 41-6
Project Number:
Samples Collected By: E.S. & B.P.

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other			
BACKGROUND-1104	12-5-22	1250	2						X			TABLE 915	1	Sample Instructions
BACKGROUND-1204	12-5-22	1300	1									INTEGRAL	2	
													3	
													4	
													5	
													6	
													7	
													8	
													9	
													10	
Relinquished By: 	Date: 12-4-22	Time: 1550	Received By: 	Date: 12-10-22	Time: 1550	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/>								
Relinquished By: 	Date:	Time:	Received By:	Date:	Time:									

Date Results Needed

5

Origins Laboratory, Inc.

Jen Pellegrini, Project Manager

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KP Kauffman Co. Inc.

1700 Lincoln St #4550

Denver CO 80203

Levi Kirk

Project Number: -

Project: KOCH 41-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4212127

Client: KP Kauffman

Client Project ID: KOCH 41-6

Checklist Completed by: JSH/DE

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

Date/time completed: 12/07/12

Airbill #: N/A

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

Cooler Number/Temperature: 115 °C / _____ °C / _____ °C (Describe)

Thermometer ID: TOCH

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: JLB (Project Manager)

Date/Time Reviewed: 12-8-22

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-1@4'
12/5/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2L0807	12/08/2022	12/09/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	2.45	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.773	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.19	pH Units	1	B2L0816	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	0.608	SAR	1	B2L0812	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.456	0.00500	mmhos/cm	1	B2L0816	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	2.83	0.0946	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	74.8	9.46	"	"	"	"	"
Cadmium	ND	0.0946	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-1@4'
12/5/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-01 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.46	mg/kg	10	B2L0803	12/08/2022	12/12/2022	U
Lead	ND	9.46	"	"	"	"	"	U
Nickel	10.3	9.46	"	"	"	"	"	
Selenium	0.0955	0.0946	"	"	"	"	"	
Silver	ND	0.0946	"	"	"	"	"	U
Zinc	ND	94.6	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L653172	12/05/2022	12/12/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-2@4'
12/5/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0998	mg/L	1	B2L0807	12/08/2022	12/09/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.27	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.613	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.09	pH Units	1	B2L0816	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	0.632	SAR	1	B2L0812	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.287	0.00500	mmhos/cm	1	B2L0816	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	3.49	0.0935	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	88.9	9.35	"	"	"	"	"
Cadmium	0.102	0.0935	"	"	"	"	"
Copper	ND	9.35	"	"	"	"	U

Origins Laboratory, Inc.



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1700 Lincoln St #4550
Denver CO 80203

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-2@4'
12/5/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-02 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.35	mg/kg	10	B2L0803	12/08/2022	12/12/2022	U
Nickel	12.0	9.35	"	"	"	"	"	
Selenium	ND	0.0935	"	"	"	"	"	U
Silver	ND	0.0935	"	"	"	"	"	U
Zinc	ND	93.5	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L653172	12/05/2022	12/12/2022
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Origins Laboratory, Inc.



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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-3@4'
12/5/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B2L0808	12/08/2022	12/09/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.86	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.31	pH Units	1	B2L0816	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	0.299	SAR	1	B2L0812	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.360	0.00500	mmhos/cm	1	B2L0816	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	2.80	0.0921	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	96.3	9.21	"	"	"	"	"
Cadmium	0.104	0.0921	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-3@4'
12/5/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-03 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.21	mg/kg	10	B2L0803	12/08/2022	12/12/2022	U
Lead	ND	9.21	"	"	"	"	"	U
Nickel	10.4	9.21	"	"	"	"	"	
Selenium	ND	0.0921	"	"	"	"	"	U
Silver	ND	0.0921	"	"	"	"	"	U
Zinc	ND	92.1	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L653172	12/05/2022	12/12/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-4@4'
12/5/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.114	0.0990	mg/L	1	B2L0808	12/08/2022	12/09/2022
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Metals by Saturated Paste by EPA 6010

Calcium	0.837	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.33		pH Units	1	B2L0816	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	0.337		SAR	1	B2L0812	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.238	0.00500	mmhos/cm	1	B2L0816	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	2.67	0.0943	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	67.4	9.43	"	"	"	"	"
Cadmium	0.111	0.0943	"	"	"	"	"
Copper	ND	9.43	"	"	"	"	"

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Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-4@4'
12/5/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-04 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.43	mg/kg	10	B2L0803	12/08/2022	12/12/2022	U
Nickel	9.45	9.43	"	"	"	"	"	
Selenium	0.104	0.0943	"	"	"	"	"	
Silver	ND	0.0943	"	"	"	"	"	U
Zinc	ND	94.3	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L653172	12/05/2022	12/12/2022
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Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-5@4'
12/5/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2L0808	12/08/2022	12/09/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	13.5	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	4.97	0.823	"	"	"	"	"
Sodium	5.55	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.55	pH Units	1	B2L0816	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	1.82	SAR	1	B2L0812	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.48	0.00500	mmhos/cm	1	B2L0816	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	2.91	0.0969	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	84.6	9.69	"	"	"	"	"
Cadmium	ND	0.0969	"	"	"	"	U
Copper	ND	9.69	"	"	"	"	U

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-5@4'
12/5/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-05 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.69	mg/kg	10	B2L0803	12/08/2022	12/12/2022	U
Nickel	10.2		9.69	"	"	"	"	"	
Selenium	ND		0.0969	"	"	"	"	"	U
Silver	ND		0.0969	"	"	"	"	"	U
Zinc	ND		96.9	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L653175	12/05/2022	12/12/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-6@4'
12/5/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.115	0.0989	mg/L	1	B2L0808	12/08/2022	12/09/2022
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Metals by Saturated Paste by EPA 6010

Calcium	0.888	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.45	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.73	pH Units	1	B2L0816	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	1.72	SAR	1	B2L0812	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.349	0.00500	mmhos/cm	1	B2L0816	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	3.26	0.0957	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	85.6	9.57	"	"	"	"	"
Cadmium	0.103	0.0957	"	"	"	"	"
Copper	ND	9.57	"	"	"	"	" U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-6@4'
12/5/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-06 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.57	mg/kg	10	B2L0803	12/08/2022	12/12/2022	U
Nickel	11.0	9.57	"	"	"	"	"	
Selenium	0.105	0.0957	"	"	"	"	"	
Silver	ND	0.0957	"	"	"	"	"	U
Zinc	ND	95.7	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L653175	12/05/2022	12/12/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-7@4'
12/5/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.189	0.0986	mg/L	1	B2L0808	12/08/2022	12/09/2022
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Metals by Saturated Paste by EPA 6010

Calcium	18.0	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	9.49	0.823	"	"	"	"	"
Sodium	8.49	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.24		pH Units	1	B2L0816	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	2.29		SAR	1	B2L0812	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.00	0.00500	mmhos/cm	1	B2L0816	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	3.97	0.0981	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	100	9.81	"	"	"	"	"
Cadmium	0.138	0.0981	"	"	"	"	"
Copper	ND	9.81	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-7@4'
12/5/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-07 (Soil)

Table 915 metals by EPA 6020B

Lead	9.82	9.81	mg/kg	10	B2L0803	12/08/2022	12/12/2022	
Nickel	12.3	9.81	"	"	"	"	"	
Selenium	ND	0.0981	"	"	"	"	"	U
Silver	ND	0.0981	"	"	"	"	"	U
Zinc	ND	98.1	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L653175	12/05/2022	12/12/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-8@4'
12/5/2022 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.345	0.0984	mg/L	1	B2L0808	12/08/2022	12/09/2022
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Metals by Saturated Paste by EPA 6010

Calcium	5.99	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	3.73	0.823	"	"	"	"	"
Sodium	9.01	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.63		pH Units	1	B2L0816	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	4.09		SAR	1	B2L0812	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.89	0.00500	mmhos/cm	1	B2L0816	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	3.42	0.0935	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	102	9.35	"	"	"	"	"
Cadmium	0.153	0.0935	"	"	"	"	"
Copper	ND	9.35	"	"	"	"	" U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-8@4'
12/5/2022 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-08 (Soil)

Table 915 metals by EPA 6020B

Lead	9.43	9.35	mg/kg	10	B2L0803	12/08/2022	12/12/2022	
Nickel	10.3	9.35	"	"	"	"	"	
Selenium	ND	0.0935	"	"	"	"	"	U
Silver	ND	0.0935	"	"	"	"	"	U
Zinc	ND	93.5	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L653175	12/05/2022	12/12/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-9@4'
12/5/2022 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.450	0.100	mg/L	1	B2L0808	12/08/2022	12/09/2022
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Metals by Saturated Paste by EPA 6010

Calcium	18.5	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	10.2	0.823	"	"	"	"	"
Sodium	14.8	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.11		pH Units	1	B2L0816	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	3.90		SAR	1	B2L0812	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.62	0.00500	mmhos/cm	1	B2L0816	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	3.73	0.0947	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	104	9.47	"	"	"	"	"
Cadmium	0.144	0.0947	"	"	"	"	"
Copper	ND	9.47	"	"	"	"	"

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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-9@4'
12/5/2022 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-09 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.47	mg/kg	10	B2L0803	12/08/2022	12/12/2022	U
Nickel	12.0	9.47	"	"	"	"	"	
Selenium	0.125	0.0947	"	"	"	"	"	
Silver	ND	0.0947	"	"	"	"	"	U
Zinc	ND	94.7	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L653175	12/05/2022	12/12/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-10@4'
12/5/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.795	0.101	mg/L	1	B2L0808	12/08/2022	12/09/2022
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Metals by Saturated Paste by EPA 6010

Calcium	0.693	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	7.04	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.60	pH Units	1	B2L0816	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	9.04	SAR	1	B2L0812	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.855	0.00500	mmhos/cm	1	B2L0816	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	3.20	0.0889	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	105	8.89	"	"	"	"	"
Cadmium	0.132	0.0889	"	"	"	"	"
Copper	9.55	8.89	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-10@4'

12/5/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y212127-10 (Soil)

Table 915 metals by EPA 6020B

Lead	8.99	8.89	mg/kg	10	B2L0803	12/08/2022	12/12/2022	
Nickel	11.1	8.89	"	"	"	"	"	
Selenium	0.101	0.0889	"	"	"	"	"	
Silver	ND	0.0889	"	"	"	"	"	U
Zinc	ND	88.9	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L653175	12/05/2022	12/12/2022
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-11@4'

12/5/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y212127-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.106	0.101	mg/L	1	B2L0808	12/08/2022	12/09/2022
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Metals by Saturated Paste by EPA 6010

Calcium	7.87	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	5.21	0.823	"	"	"	"	"
Sodium	7.48	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.54	pH Units	1	B2L0817	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	2.93	SAR	1	B2L0813	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.18	0.00500	mmhos/cm	1	B2L0817	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	3.33	0.0962	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	83.4	9.62	"	"	"	"	"
Cadmium	0.123	0.0962	"	"	"	"	"
Copper	ND	9.62	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-11@4'

12/5/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212127-11 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.62	mg/kg	10	B2L0803	12/08/2022	12/12/2022	U
Nickel	11.1	9.62	"	"	"	"	"	
Selenium	0.122	0.0962	"	"	"	"	"	
Silver	ND	0.0962	"	"	"	"	"	U
Zinc	ND	96.2	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L653175	12/05/2022	12/12/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-12@4'

12/5/2022 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y212127-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.105	0.0989	mg/L	1	B2L0808	12/08/2022	12/09/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.05	0.499	meq/L	10	[CALC]	12/08/2022	12/09/2022
Magnesium	1.29	0.823	"	"	"	"	"
Sodium	1.58	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.82		pH Units	1	B2L0817	12/08/2022	12/09/2022
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SAR by 20B Saturated Paste

SAR	1.22		SAR	1	B2L0813	12/08/2022	12/09/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.685	0.00500	mmhos/cm	1	B2L0817	12/08/2022	12/09/2022
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Table 915 metals by EPA 6020B

Arsenic	3.37	0.0966	mg/kg	10	B2L0803	12/08/2022	12/12/2022
Barium	105	9.66	"	"	"	"	"
Cadmium	0.220	0.0966	"	"	"	"	"
Copper	ND	9.66	"	"	"	"	" U

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
Project: KOCH 41-6

BACKGROUND-12@4'

12/5/2022 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y212127-12 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.66	mg/kg	10	B2L0803	12/08/2022	12/12/2022	U
Nickel	10.7	9.66	"	"	"	"	"	
Selenium	ND	0.0966	"	"	"	"	"	U
Silver	ND	0.0966	"	"	"	"	"	U
Zinc	ND	96.6	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L653175	12/05/2022	12/12/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
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
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Batch B2L0803 - EPA 3050B

Blank (B2L0803-BLK1)

Prepared: 12/08/2022 Analyzed: 12/12/2022

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

LCS (B2L0803-BS1)

Prepared: 12/08/2022 Analyzed: 12/12/2022

Arsenic	0.0498	0.000100	mg/kg	0.0500		99.6	80-120			
Barium	4.88	0.0100	"	5.00		97.6	80-120			
Cadmium	0.0518	0.000100	"	0.0500		104	80-120			
Copper	0.515	0.0100	"	0.500		103	80-120			
Lead	0.0513	0.0100	"	0.0500		103	80-120			
Nickel	0.0458	0.0100	"	0.0500		91.6	80-120			
Selenium	0.0489	0.000100	"	0.0500		97.9	80-120			
Silver	0.0442	0.000100	"	0.0500		88.5	80-120			
Zinc	0.492	0.100	"	0.500		98.4	80-120			

Matrix Spike (B2L0803-MS1)

Source: Y212109-04

Prepared: 12/08/2022 Analyzed: 12/12/2022

Arsenic	8.12	0.0938	mg/kg	4.69	4.09	85.8	75-125			
Barium	1380	9.38	"	469	1330	10.7	75-125			QM-07
Cadmium	5.02	0.0938	"	4.69	0.156	104	75-125			
Copper	55.5	9.38	"	46.9	13.7	89.2	75-125			
Lead	12.7	9.38	"	4.69	8.83	81.7	75-125			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Levi Kirk
Project Number: -
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
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Batch B2L0803 - EPA 3050B

Matrix Spike (B2L0803-MS1)

Source: Y212109-04

Prepared: 12/08/2022 Analyzed: 12/12/2022

Nickel	13.3	9.38	mg/kg	4.69	9.47	81.6	75-125			
Selenium	4.18	0.0938	"	4.69	0.233	84.1	75-125			
Silver	4.15	0.0938	"	4.69	0.0504	87.3	75-125			
Zinc	88.7	93.8	"	46.9	84.9	8.11	75-125			QM-07, U

Matrix Spike Dup (B2L0803-MSD1)

Source: Y212109-04

Prepared: 12/08/2022 Analyzed: 12/12/2022

Arsenic	8.58	0.0910	mg/kg	4.55	4.09	98.7	75-125	5.57	20	
Barium	1410	9.10	"	455	1330	18.9	75-125	2.58	20	QM-07
Cadmium	4.88	0.0910	"	4.55	0.156	104	75-125	2.86	20	
Copper	64.4	9.10	"	45.5	13.7	111	75-125	14.7	20	
Lead	15.0	9.10	"	4.55	8.83	135	75-125	16.8	20	QM-07
Nickel	15.2	9.10	"	4.55	9.47	127	75-125	13.6	20	QM-07
Selenium	4.15	0.0910	"	4.55	0.233	86.1	75-125	0.653	20	
Silver	3.92	0.0910	"	4.55	0.0504	85.1	75-125	5.57	20	
Zinc	113	91.0	"	45.5	84.9	62.5	75-125	24.4	20	QM-07, QR-DUP

Origins Laboratory, Inc.



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

Levi Kirk
Project Number: -
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
Batch B2L0807 - DTPA Sorbitol Preparation										
Blank (B2L0807-BLK1)					Prepared: 12/08/2022 Analyzed: 12/09/2022					
Boron	ND	0.100	mg/L							U
Duplicate (B2L0807-DUP1)					Source: Y212127-01		Prepared: 12/08/2022 Analyzed: 12/09/2022			
Boron	0.0884	0.0998	mg/L		0.0881			0.380	50	U
Batch B2L0808 - DTPA Sorbitol Preparation										
Blank (B2L0808-BLK1)					Prepared: 12/08/2022 Analyzed: 12/09/2022					
Boron	ND	0.100	mg/L							U
Duplicate (B2L0808-DUP1)					Source: Y212127-03		Prepared: 12/08/2022 Analyzed: 12/09/2022			
Boron	0.0706	0.0989	mg/L		0.0731			3.50	50	U
Batch B2L0812 - Saturated Paste Metals										
Blank (B2L0812-BLK1)					Prepared: 12/08/2022 Analyzed: 12/09/2022					
Calcium PPM	ND	10.0	mg/L							U
SAR	0.00		SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U
Duplicate (B2L0812-DUP1)					Source: Y212105-09		Prepared: 12/08/2022 Analyzed: 12/09/2022			
Calcium PPM	89.9	10.0	mg/L		126			33.5	50	
SAR	0.00		SAR		1.38			200	200	U
Magnesium PPM	40.3	10.0	mg/L		54.8			30.5	50	
Sodium PPM	62.9	10.0	"		73.7			15.8	50	

Origins Laboratory, Inc.



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

Levi Kirk
Project Number: -
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
Batch B2L0813 - Saturated Paste Metals										
Blank (B2L0813-BLK1)					Prepared: 12/08/2022 Analyzed: 12/09/2022					
SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U
Duplicate (B2L0813-DUP1)					Source: Y212127-11 Prepared: 12/08/2022 Analyzed: 12/09/2022					
Calcium PPM	182	10.0	mg/L		158			14.5	50	
SAR	0.00		SAR		2.93			200	200	U
Magnesium PPM	73.4	10.0	mg/L		63.3			14.8	50	
Sodium PPM	212	10.0	"		172			20.7	50	

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.
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Levi Kirk
Project Number: -
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
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Batch B2L0816 - Saturated Paste pH/EC

Blank (B2L0816-BLK1)

Prepared: 12/08/2022 Analyzed: 12/09/2022

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B2L0816-DUP1)

Source: Y212105-09

Prepared: 12/08/2022 Analyzed: 12/09/2022

Specific Conductance (EC)	1.02	0.00500	mmhos/cm		1.41			31.6	25	QR-DUP
pH	7.66		pH Units		7.79			1.68	25	QR-DUP

Batch B2L0817 - Saturated Paste pH/EC

Blank (B2L0817-BLK1)

Prepared: 12/08/2022 Analyzed: 12/09/2022

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B2L0817-DUP1)

Source: Y212127-11

Prepared: 12/08/2022 Analyzed: 12/09/2022

pH	7.26		pH Units		7.54			3.78	25	
Specific Conductance (EC)	2.35	0.00500	mmhos/cm		2.18			7.68	25	

Origins Laboratory, Inc.



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

Levi Kirk
Project Number: -
Project: KOCH 41-6

Total Metals by 7196 A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L653175 -										
DUP (L 99368-DUP)		Source: 99368			Prepared: Analyzed: 12/12/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 99368-MS)		Source: 99368			Prepared: Analyzed: 12/12/2022					
Chromium, Hexavalent	35.5	2.5	mg/Kg	39.1	< 0.244	91	75-125			
MSD (L 99368-MSD)		Source: 99368			Prepared: Analyzed: 12/12/2022					
Chromium, Hexavalent	659	50.1	mg/Kg	723	<24.4	91	75-125			
LCS (LCS)					Prepared: Analyzed: 12/12/2022					
Chromium, Hexavalent	6.85	0.5	mg/Kg	8		86	75-125			
LRB (LRB)					Prepared: Analyzed: 12/12/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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

Levi Kirk
Project Number: -
Project: KOCH 41-6

Total Metals by 7196A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L653172 -										
DUP (L 99350-DUP)		Source: Y212127-01			Prepared: Analyzed: 12/12/2022					
Chromium, Hexavalent	ND	0.511	mg/Kg		<0.511	-		0	20	
MS (L 99350-MS)		Source: Y212127-01			Prepared: Analyzed: 12/12/2022					
Chromium, Hexavalent	30.5	2.5	mg/Kg	39.7	< 0.250	77	75-125			
MSD (L 99350-MSD)		Source: Y212127-01			Prepared: Analyzed: 12/12/2022					
Chromium, Hexavalent	561	51.7	mg/Kg	719	<25.2	78	75-125			

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Levi Kirk
Project Number: -
Project: KOCH 41-6

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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, Inc.



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