

November 07, 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. October 24, 2022. This project is associated with Origins project number Y210570-01.

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



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
SS-1@5'	Y210570-01	Soil	October 24, 2022 10:55	10/24/2022 14:20
SS-3@5'	Y210570-02	Soil	October 24, 2022 11:10	10/24/2022 14:20
SS-6@5'	Y210570-03	Soil	October 24, 2022 11:35	10/24/2022 14:20
SS-9@5'	Y210570-04	Soil	October 24, 2022 12:00	10/24/2022 14:20
SS-11@5'	Y210570-05	Soil	October 24, 2022 12:10	10/24/2022 14:20

Origins Laboratory, Inc.



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

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

4210570

page | of |

Client: L.P. Kuehmann (Morgan)

Address: 1675 Broadway

DENVER, CO

Telephone Number: 303-825-4620

Email Address: Pme@originslab.com

Project Manager: LEU KLICK

Project Name: WICH 41-6 FLOWLINE

Project Number: \_\_\_\_\_


Samples Collected by: B.W. & L.L.

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #			Other
SS-105'	10-24-20	1055	2	X					X			X	1
SS-305'		1110											2
SS-605'		1135											3
SS-905'		1202											4
SS-1105'		1210											5
													6
													7
													8
													9
													10
Relinquished By: 	Date: 10-24-20	Time: 1420										Date: 10/24/22 Time: 1420	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:										Date:	Time:

Temp Received- 115

Date Results Needed

Origins Laboratory, Inc.

Byron

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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: 4210570 Client: KP Kauffman  
Client Project ID: KOCH 41-6

Checklist Completed by: EHS/OE Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 10/24/22 Airbill #: NA

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

Cooler Number/Temperature: 1 / 11.5 °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) JB

Date/Time Reviewed 10-26-22

Origins Laboratory, Inc.

*J. Bynon*

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

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

SS-1@5'

10/24/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y210570-01 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.119	0.0988	mg/L	1	B2J2710	10/27/2022	10/28/2022	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J2627	10/26/2022	10/30/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.2 %	50-150			"	"	10/31/2022	
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J2525	10/25/2022	11/03/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Project Number: -  
Project: KOCH 41-6

SS-1@5'

10/24/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210570-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.2 %	70-130	B2J25 25	10/25/2022	11/03/2022
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	2.94	0.499	meq/L	10	[CALC]	10/27/2022	10/28/2022
Magnesium	1.05	0.823	"	"	"	"	"
Sodium	1.84	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L646022	10/31/2022	10/31/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

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Project Number: -  
Project: KOCH 41-6

SS-1@5'

10/24/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y210570-01 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L646022	10/31/2022	10/31/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	49.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.19	pH Units	1	B2J2714	10/27/2022	10/28/2022
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## SAR by 20B Saturated Paste

SAR	1.30	SAR	1	B2J2706	10/27/2022	10/28/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.570	0.00500	mmhos/cm	1	B2J2714	10/27/2022	10/28/2022
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## Table 915 metals by EPA 6020B

Arsenic	3.90	0.0970	mg/kg	10	B2J2802	10/28/2022	10/31/2022
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Levi Kirk  
Project Number: -  
Project: KOCH 41-6

SS-1@5'

10/24/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210570-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	107	9.70	mg/kg	10	B2J2802	10/28/2022	10/31/2022
Cadmium	0.129	0.0970	"	"	"	"	"
Copper	11.5	9.70	"	"	"	"	"
Lead	ND	9.70	"	"	"	"	"
Nickel	14.2	9.70	"	"	"	"	"
Selenium	0.147	0.0970	"	"	"	"	"
Silver	ND	0.0970	"	"	"	"	"
Zinc	ND	97.0	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L646416	10/24/2022	11/01/2022
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KP Kauffman Co. Inc.  
1700 Lincoln St #4550  
Denver CO 80203

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

SS-3@5'

10/24/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210570-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.490	0.0997	mg/L	1	B2J2711	10/27/2022	10/28/2022
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	953	25.0	mg/kg	1	B2J2627	10/26/2022	10/31/2022
Residual Range Organics (C28-C40)	896	100	"	"	"	"	"

Surrogate: o-Terphenyl	104 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J2525	10/25/2022	11/03/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	14.8	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"

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1700 Lincoln St #4550  
Denver CO 80203

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

SS-3@5'

10/24/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y210570-02 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	102 %	70-130	B2J25 25	10/25/2022	11/03/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	1.31	0.499	meq/L	10	[CALC]	10/27/2022	10/28/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.73	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	0.17	0.00364	0.0067	mg/Kg	10	L646023	10/31/2022	11/01/2022	
2-Methylnaphthalene	0.113	0.00645	0.0067	"	"	"	"	"	
Acenaphthene	0.0464	0.00304	0.0067	"	"	"	"	"	
Anthracene	0.00532	0.00334	0.0067	"	"	"	"	"	J
Benzo(a)anthracene	0.0051	0.00493	0.0067	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00593	0.00437	0.0067	"	"	"	"	"	J
Chrysene	0.0241	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	0.00832	0.00394	0.0067	"	"	"	"	"	
Fluorene	0.164	0.00286	0.0067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"	

Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

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

SS-3@5'

10/24/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y210570-02 (Soil)

## PAH by 8270D-SIM

Naphthalene	ND	0.00484	0.0067	mg/Kg	10	L646023	10/31/2022	11/01/2022	
Pyrene	0.0185	0.00643	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	38.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	52.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	36 %		29-110			"	"	"	

## pH in Soil by 9045D

pH	8.38			pH Units	1	B2J2715	10/27/2022	10/28/2022	
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## SAR by 20B Saturated Paste

SAR	6.55			SAR	1	B2J2707	10/27/2022	10/28/2022	
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.837		0.00500	mmhos/cm	1	B2J2715	10/27/2022	10/28/2022	
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## Table 915 metals by EPA 6020B

Arsenic	4.25		0.0930	mg/kg	10	B2J2802	10/28/2022	10/31/2022	
Barium	102		9.30	"	"	"	"	"	
Cadmium	0.152		0.0930	"	"	"	"	"	

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1700 Lincoln St #4550  
Denver CO 80203

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

SS-3@5'

10/24/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210570-02 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	10.9		9.30	mg/kg	10	B2J2802	10/28/2022	10/31/2022	
Lead	9.47		9.30	"	"	"	"	"	
Nickel	13.5		9.30	"	"	"	"	"	
Selenium	0.184		0.0930	"	"	"	"	"	
Silver	ND		0.0930	"	"	"	"	"	
Zinc	ND		93.0	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L646416	10/24/2022	11/01/2022	
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1700 Lincoln St #4550  
Denver CO 80203

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

SS-6@5'

10/24/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210570-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.129	0.100	mg/L	1	B2J2711	10/27/2022	10/28/2022
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	196	25.0	mg/kg	1	B2J2627	10/26/2022	10/31/2022
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	98.2 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	1.37	0.0500	mg/kg	25	B2J2525	10/25/2022	11/03/2022
1,3,5-Trimethylbenzene	0.173	0.00200	"	1	"	"	11/03/2022
Benzene	0.0312	0.00200	"	"	"	"	"
Ethylbenzene	0.0651	0.00200	"	"	"	"	"
Toluene	0.308	0.00200	"	"	"	"	"
Xylenes, total	0.774	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	21.0	5.00	"	25	"	"	11/03/2022

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	11/03/2022
Surrogate: Toluene-d8	99.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130	"	"	"

Origins Laboratory, Inc.



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Denver CO 80203

Levi Kirk

Project Number: -

Project: KOCH 41-6

SS-6@5'

10/24/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y210570-03 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.26	0.499	meq/L	10	[CALC]	10/27/2022	10/28/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.85	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	0.433	0.000364	0.00067	mg/Kg	1	L646023	10/31/2022	11/01/2022
2-Methylnaphthalene	0.357	0.000645	0.00067	"	"	"	"	"
Acenaphthene	0.0307	0.000304	0.00067	"	"	"	"	"
Anthracene	0.000372	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00352	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00158	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00201	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00109	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0176	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00122	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.0038	0.000394	0.00067	"	"	"	"	"
Fluorene	0.101	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.000737	0.000627	0.00067	"	"	"	"	"
Naphthalene	0.155	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00859	0.000643	0.00067	"	"	"	"	"

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

SS-6@5'

10/24/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y210570-03 (Soil)

## PAH by 8270D-SIM

Surrogate: 2-Fluorobiphenyl	36 %	33-115	L6460 23	10/31/2022	11/01/2022
Surrogate: 4-Terphenyl-d14	48.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	46.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.28	pH Units	1	B2J2715	10/27/2022	10/28/2022
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## SAR by 20B Saturated Paste

SAR	1.83	SAR	1	B2J2707	10/27/2022	10/28/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.377	0.00500	mmhos/cm	1	B2J2715	10/27/2022	10/28/2022
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## Table 915 metals by EPA 6020B

Arsenic	4.19	0.0972	mg/kg	10	B2J2802	10/28/2022	10/31/2022
Barium	136	9.72	"	"	"	"	"
Cadmium	0.172	0.0972	"	"	"	"	"
Copper	12.4	9.72	"	"	"	"	"
Lead	9.88	9.72	"	"	"	"	"
Nickel	15.5	9.72	"	"	"	"	"
Selenium	0.125	0.0972	"	"	"	"	"

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

SS-6@5'

10/24/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y210570-03 (Soil)

### Table 915 metals by EPA 6020B

Silver	ND	0.0972	mg/kg	10	B2J2802	10/28/2022	10/31/2022
Zinc	ND	97.2	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L646416	10/24/2022	11/01/2022
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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

SS-9@5'

10/24/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210570-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.159	0.0992	mg/L	1	B2J2711	10/27/2022	10/28/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	260	25.0	mg/kg	1	B2J2627	10/26/2022	10/31/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.8 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.360	0.00200	mg/kg	1	B2J2525	10/25/2022	11/03/2022	
1,3,5-Trimethylbenzene	0.119	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.0138	0.00200	"	"	"	"	"	
Toluene	0.00654	0.00200	"	"	"	"	"	
Xylenes, total	0.223	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	19.6	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	

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

SS-9@5'

10/24/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210570-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	3.54	0.499	meq/L	10	[CALC]	10/27/2022	10/28/2022
Magnesium	2.16	0.823	"	"	"	"	"
Sodium	8.17	0.435	"	"	"	"	"

**PAH by 8270D-SIM**

1-Methylnaphthalene	0.0526	0.00182	0.00335	mg/Kg	5	L646023	10/31/2022	11/01/2022
2-Methylnaphthalene	0.0671	0.00323	0.00335	"	"	"	"	"
Acenaphthene	0.00746	0.00152	0.00335	"	"	"	"	"
Anthracene	ND	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	0.00374	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"
Fluorene	0.0289	0.00143	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"
Naphthalene	0.00556	0.00242	0.00335	"	"	"	"	"
Pyrene	ND	0.00322	0.00335	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	46.2 %		33-115			"	"	"

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

SS-9@5'

10/24/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC. Y210570-04 (Soil)

### PAH by 8270D-SIM

Surrogate: 4-Terphenyl-d14	45.9 %	33-122	L6460 23	10/31/2022	11/01/2022
Surrogate: Nitrobenzene-d5	41.9 %	29-110	"	"	"

### pH in Soil by 9045D

pH	8.30	pH Units	1	B2J2715	10/27/2022	10/28/2022
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### SAR by 20B Saturated Paste

SAR	4.84	SAR	1	B2J2707	10/27/2022	10/28/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.31	0.00500	mmhos/cm	1	B2J2715	10/27/2022	10/28/2022
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### Table 915 metals by EPA 6020B

Arsenic	4.19	0.0946	mg/kg	10	B2J2802	10/28/2022	10/31/2022
Barium	113	9.46	"	"	"	"	"
Cadmium	0.129	0.0946	"	"	"	"	"
Copper	11.1	9.46	"	"	"	"	"
Lead	ND	9.46	"	"	"	"	"
Nickel	13.3	9.46	"	"	"	"	"
Selenium	0.170	0.0946	"	"	"	"	"
Silver	ND	0.0946	"	"	"	"	"

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

SS-9@5'

10/24/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y210570-04 (Soil)

### Table 915 metals by EPA 6020B

Zinc	ND	94.6	mg/kg	10	B2J2802	10/28/2022	10/31/2022
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### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L646416	10/24/2022	11/01/2022
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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

SS-11@5'

10/24/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210570-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0998	mg/L	1	B2J2604	10/26/2022	10/27/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J2627	10/26/2022	10/31/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.0 %	50-150			"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J2525	10/25/2022	11/03/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130			"	"	"
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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

SS-11@5'

10/24/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y210570-05 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.7 %	70-130	B2J25 25	10/25/2022	11/03/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	7.28	0.499	meq/L	10	[CALC]	10/27/2022	10/28/2022
Magnesium	7.60	0.823	"	"	"	"	"
Sodium	8.03	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L646023	10/31/2022	11/01/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"
Anthracene	ND	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	ND	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"

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

SS-11@5'

10/24/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y210570-05 (Soil)

## PAH by 8270D-SIM

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L646023	10/31/2022	11/01/2022
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"
Pyrene	ND	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.43	pH Units	1	B2J2715	10/27/2022	10/28/2022
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## SAR by 20B Saturated Paste

SAR	2.94	SAR	1	B2J2707	10/27/2022	10/28/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.12	0.00500	mmhos/cm	1	B2J2715	10/27/2022	10/28/2022
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## Table 915 metals by EPA 6020B

Arsenic	3.39	0.0946	mg/kg	10	B2J2802	10/28/2022	10/31/2022
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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

SS-11@5'

10/24/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y210570-05 (Soil)

## Table 915 metals by EPA 6020B

Barium	84.8	9.46	mg/kg	10	B2J2802	10/28/2022	10/31/2022
Cadmium	0.118	0.0946	"	"	"	"	"
Copper	ND	9.46	"	"	"	"	"
Lead	9.81	9.46	"	"	"	"	"
Nickel	11.1	9.46	"	"	"	"	"
Selenium	0.177	0.0946	"	"	"	"	"
Silver	ND	0.0946	"	"	"	"	"
Zinc	ND	94.6	"	"	"	"	"

## Total Metals by 7196 A

Chromium, Hexavalent	ND	1.25	2.57	mg/Kg	5	L646643	10/24/2022	11/02/2022
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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

**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
<b>Batch B2J2525 - EPA 5030 (soil)</b>										
<b>Blank (B2J2525-BLK1)</b>					Prepared: 10/25/2022 Analyzed: 11/02/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

**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
<b>Batch B2J2525 - EPA 5030 (soil)</b>										
<b>LCS (B2J2525-BS1)</b>					Prepared: 10/25/2022 Analyzed: 11/02/2022					
1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.0937	0.00380	"	0.100		93.7	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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

**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
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**Batch B2J2525 - EPA 5030 (soil)**

Matrix Spike (B2J2525-MS1)		Source: Y210570-01			Prepared: 10/25/2022 Analyzed: 11/02/2022					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.0977	0.00200	"	0.100	ND	97.7	70-130			
Ethylbenzene	0.0997	0.00200	"	0.100	ND	99.7	70-130			
Naphthalene	0.0922	0.00380	"	0.100	0.00356	88.6	70-130			
Toluene	0.0992	0.00200	"	0.100	ND	99.2	70-130			
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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

Levi Kirk  
Project Number: -  
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
<b>Batch B2J2525 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2J2525-MSD1)</b>		<b>Source: Y210570-01</b>			Prepared: 10/25/2022 Analyzed: 11/02/2022					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	2.28	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	2.28	20	
Benzene	0.0975	0.00200	"	0.100	ND	97.5	70-130	0.184	20	
Ethylbenzene	0.0965	0.00200	"	0.100	ND	96.5	70-130	3.26	20	
Naphthalene	0.0958	0.00380	"	0.100	0.00356	92.2	70-130	3.85	20	
Toluene	0.0961	0.00200	"	0.100	ND	96.1	70-130	3.13	20	
o-Xylene	0.0978	0.00200	"	0.100	ND	97.8	70-130	2.58	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.6	70-130	2.87	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

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

Levi Kirk  
Project Number: -  
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
<b>Batch B2J2627 - EPA 3550B</b>										
<b>Blank (B2J2627-BLK1)</b>					Prepared: 10/26/2022 Analyzed: 10/30/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.7	50-150			

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

Levi Kirk  
Project Number: -  
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 B2J2627 - EPA 3550B

LCS (B2J2627-BS1)

Prepared: 10/26/2022 Analyzed: 10/30/2022

Diesel (C10-C28)	927	50.0	mg/kg	1000		92.7	70-130			
Residual Range Organics (C28-C40)	851	200	"	1000		85.1	70-130			
Surrogate: o-Terphenyl	50		"	49.8		99.9	50-150			

Origins Laboratory, Inc.



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Denver CO 80203

Levi Kirk  
Project Number: -  
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 B2J2627 - EPA 3550B

Matrix Spike (B2J2627-MS1)		Source: Y210556-01			Prepared: 10/26/2022 Analyzed: 10/30/2022					
Diesel (C10-C28)	953	50.0	mg/kg	1000	ND	95.3	70-130			
Residual Range Organics (C28-C40)	884	200	"	1000	ND	88.4	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.3	50-150			

Origins Laboratory, Inc.



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1700 Lincoln St #4550  
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Levi Kirk  
Project Number: -  
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 B2J2627 - EPA 3550B

Matrix Spike Dup (B2J2627-MSD1)		Source: Y210556-01			Prepared: 10/26/2022 Analyzed: 10/30/2022					
Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	70-130	1.25	35	
Residual Range Organics (C28-C40)	855	200	"	1000	ND	85.5	70-130	3.31	35	
Surrogate: o-Terphenyl	41		"	49.8		83.3	50-150			

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Denver CO 80203

Levi Kirk  
Project Number: -  
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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### \*\*\* DEFAULT GENERAL METHOD \*\*\* - 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 B2J2802 - EPA 3050B

##### Blank (B2J2802-BLK1)

Prepared: 10/28/2022 Analyzed: 10/31/2022

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 (B2J2802-BS1)

Prepared: 10/28/2022 Analyzed: 10/31/2022

Arsenic	0.0495	0.000100	mg/kg	0.0500	99.1	80-120
Barium	0.0508	0.0100	"	0.0500	102	80-120
Cadmium	0.0509	0.000100	"	0.0500	102	80-120
Copper	0.0545	0.0100	"	0.0500	109	80-120
Lead	0.0511	0.0100	"	0.0500	102	80-120
Nickel	0.0549	0.0100	"	0.0500	110	80-120
Selenium	0.0514	0.000100	"	0.0500	103	80-120
Silver	0.0517	0.000100	"	0.0500	103	80-120
Zinc	0.0512	0.100	"	0.0500	102	80-120

##### Matrix Spike (B2J2802-MS1)

Source: Y210569-05

Prepared: 10/28/2022 Analyzed: 10/31/2022

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

\*\*\* DEFAULT GENERAL METHOD \*\*\* - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J2802 - EPA 3050B										
<b>Matrix Spike (B2J2802-MS1)</b>			<b>Source: Y210569-05</b>		Prepared: 10/28/2022 Analyzed: 10/31/2022					
Arsenic	9.10	0.0957	mg/kg	4.78	4.91	87.6	75-125			
Barium	327	9.57	"	4.78	462	NR	75-125			QM-07
Cadmium	5.02	0.0957	"	4.78	0.234	100	75-125			
Copper	14.1	9.57	"	4.78	9.24	101	75-125			
Lead	14.1	9.57	"	4.78	9.30	101	75-125			
Nickel	19.1	9.57	"	4.78	11.9	151	75-125			QM-07
Selenium	5.00	0.0957	"	4.78	0.266	98.9	75-125			
Silver	4.79	0.0957	"	4.78	0.0285	99.6	75-125			
Zinc	47.7	95.7	"	4.78	39.8	166	75-125			QM-07
<b>Matrix Spike Dup (B2J2802-MSD1)</b>			<b>Source: Y210569-05</b>		Prepared: 10/28/2022 Analyzed: 10/31/2022					
Arsenic	9.12	0.0953	mg/kg	4.76	4.91	88.4	75-125	0.219	20	
Barium	324	9.53	"	4.76	462	NR	75-125	1.05	20	QM-07
Cadmium	5.11	0.0953	"	4.76	0.234	102	75-125	1.73	20	
Copper	15.1	9.53	"	4.76	9.24	123	75-125	6.90	20	
Lead	13.9	9.53	"	4.76	9.30	96.4	75-125	1.57	20	
Nickel	17.7	9.53	"	4.76	11.9	121	75-125	7.92	20	
Selenium	5.19	0.0953	"	4.76	0.266	103	75-125	3.76	20	
Silver	4.96	0.0953	"	4.76	0.0285	104	75-125	3.40	20	
Zinc	47.4	95.3	"	4.76	39.8	160	75-125	0.679	20	QM-07

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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
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#### Batch B2J2604 - DTPA Sorbitol Preparation

##### Blank (B2J2604-BLK1)

Prepared: 10/26/2022 Analyzed: 10/27/2022

Boron ND 0.100 mg/L

##### Duplicate (B2J2604-DUP1)

Source: Y210523-04

Prepared: 10/26/2022 Analyzed: 10/27/2022

Boron 0.915 0.999 mg/L 1.19 26.1 50

#### Batch B2J2706 - Saturated Paste

##### Blank (B2J2706-BLK1)

Prepared: 10/27/2022 Analyzed: 10/28/2022

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

##### Duplicate (B2J2706-DUP1)

Source: Y210569-01

Prepared: 10/27/2022 Analyzed: 10/28/2022

SAR 0.00 SAR 15.7 200 200

Calcium PPM 155 10.0 mg/L 115 29.3 50

Magnesium PPM 214 10.0 " 157 31.0 50

Sodium PPM 1280 10.0 " 1100 14.8 50

#### Batch B2J2707 - Saturated Paste

##### Blank (B2J2707-BLK1)

Prepared: 10/27/2022 Analyzed: 10/28/2022

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

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1700 Lincoln St #4550  
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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
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### Batch B2J2707 - Saturated Paste

Duplicate (B2J2707-DUP1)		Source: Y210554-01			Prepared: 10/27/2022 Analyzed: 10/28/2022					
SAR	0.00		SAR		3.02			200	200	
Calcium PPM	109	10.0	mg/L		130			17.3	50	
Magnesium PPM	24.1	10.0	"		28.7			17.6	50	
Sodium PPM	133	10.0	"		146			9.68	50	

### Batch B2J2710 - DTPA Sorbitol Preparation

Blank (B2J2710-BLK1)		Prepared: 10/27/2022 Analyzed: 10/28/2022								
Boron	ND	0.100	mg/L							
Duplicate (B2J2710-DUP1)		Source: Y210556-01			Prepared: 10/27/2022 Analyzed: 10/28/2022					
Boron	0.298	0.101	mg/L		0.319			6.73	50	

### Batch B2J2711 - DTPA Sorbitol Preparation

Blank (B2J2711-BLK1)		Prepared: 10/27/2022 Analyzed: 10/28/2022								
Boron	ND	0.100	mg/L							
Duplicate (B2J2711-DUP1)		Source: Y210570-02			Prepared: 10/27/2022 Analyzed: 10/28/2022					
Boron	0.496	0.101	mg/L		0.490			1.35	50	

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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 B2J2714 - NO PREP

#### Blank (B2J2714-BLK1)

Prepared: 10/27/2022 Analyzed: 10/28/2022

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B2J2714-DUP1)

Source: Y210569-01

Prepared: 10/27/2022 Analyzed: 10/28/2022

pH	8.21		pH Units	8.35			1.69	25
Specific Conductance (EC)	6.20	0.00500	mmhos/cm	5.11			19.3	25

### Batch B2J2715 - NO PREP

#### Blank (B2J2715-BLK1)

Prepared: 10/27/2022 Analyzed: 10/28/2022

pH	0.00		pH Units
Specific Conductance (EC)	ND	0.00500	mmhos/cm

#### Duplicate (B2J2715-DUP1)

Source: Y210554-01

Prepared: 10/27/2022 Analyzed: 10/28/2022

Specific Conductance (EC)	1.24	0.00500	mmhos/cm	1.45			15.6	25
pH	7.98		pH Units	7.94			0.503	25

Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

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

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L646022 - 3550B**

MSD (L 84111-MSD-L646022)		Source: 84111			Prepared: 10/31/2022 Analyzed: 10/31/2022					
Chrysene	0.124	0.00067	mg/Kg	0.166	<0.000624	74.6	30-130	1.6	30	
Fluoranthene	0.126	0.00067	"	0.166	<0.000394	75.9	30-130	0.7	30	
1-Methylnaphthalene	0.111	0.00067	"	0.166	<0.000364	66.8	30-130	5.5	30	
2-Methylnaphthalene	0.11	0.00067	"	0.166	<0.000645	66.2	30-130	0.9	30	
Acenaphthene	0.115	0.00067	"	0.166	<0.000304	69.2	30-130	0.8	30	
Anthracene	0.123	0.00067	"	0.166	<0.000334	74	30-130	0.8	30	
Benzo(a)anthracene	0.124	0.00067	"	0.166	<0.000493	74.6	30-130	0	30	
Benzo(a)pyrene	0.151	0.00067	"	0.166	<0.000468	90.9	30-130	5.4	30	
Benzo(k)fluoranthene	0.118	0.00067	"	0.166	<0.000437	71	30-130	11.2	30	
Dibenz(a,h)anthracene	0.151	0.00067	"	0.166	<0.000614	90.9	30-130	22	30	
Indeno(1,2,3-cd)pyrene	0.151	0.00067	"	0.166	<0.000627	90.9	30-130	17.2	30	
Fluorene	0.133	0.00067	"	0.166	<0.000286	80.1	30-130	5.4	30	
Naphthalene	0.107	0.00067	"	0.166	<0.000484	64.4	30-130	2.8	30	
Pyrene	0.124	0.00067	"	0.166	<0.000643	74.6	30-130	1.6	30	
Benzo(b)fluoranthene	0.125	0.00067	"	0.166	<0.000585	75.3	30-130	0	30	
Surrogate: 2-Fluorobiphenyl	65		"	0.332	227	65	33-115			
Surrogate: 4-Terphenyl-d14	71.6		"	0.332	229	71.6	33-122			
Surrogate: Nitrobenzene-d5	58.1		"	0.332	205	58.1	29-110			

MS (L 84111-MS-L646022)		Source: 84111			Prepared: 10/31/2022 Analyzed: 10/31/2022					
Pyrene	0.126	0.00067	mg/Kg	0.166	<0.000643	75.9	30-130			
Chrysene	0.126	0.00067	"	0.166	<0.000624	75.9	30-130			
Dibenz(a,h)anthracene	0.121	0.00067	"	0.166	<0.000614	72.8	30-130			
Fluoranthene	0.125	0.00067	"	0.166	<0.000394	75.3	30-130			
Fluorene	0.126	0.00067	"	0.166	<0.000286	75.9	30-130			
Indeno(1,2,3-cd)pyrene	0.127	0.00067	"	0.166	<0.000627	76.5	30-130			
Benzo(b)fluoranthene	0.125	0.00067	"	0.166	<0.000585	75.3	30-130			

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

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L646022 - 3550B**

MS (L 84111-MS-L646022)		Source: 84111			Prepared: 10/31/2022 Analyzed: 10/31/2022					
Benzo(a)pyrene	0.143	0.00067	mg/Kg	0.166	<0.000468	86.1	30-130			
Naphthalene	0.104	0.00067	"	0.166	<0.000484	62.6	30-130			
1-Methylnaphthalene	0.105	0.00067	"	0.166	<0.000364	63.2	30-130			
Benzo(k)fluoranthene	0.132	0.00067	"	0.166	<0.000437	79.5	30-130			
2-Methylnaphthalene	0.109	0.00067	"	0.166	<0.000645	65.6	30-130			
Acenaphthene	0.114	0.00067	"	0.166	<0.000304	68.6	30-130			
Anthracene	0.122	0.00067	"	0.166	<0.000334	73.4	30-130			
Benzo(a)anthracene	0.124	0.00067	"	0.166	<0.000493	74.6	30-130			
Surrogate: Nitrobenzene-d5	63.4		"	0.331	205	63.4	29-110			
Surrogate: 4-Terphenyl-d14	73.1		"	0.331	229	73.1	33-122			
Surrogate: 2-Fluorobiphenyl	67.9		"	0.331	221	67.9	33-115			

LCS (LCS-L646022)		Prepared: 10/31/2022 Analyzed: 10/31/2022								
Benzo(k)fluoranthene	0.141	0.00067	mg/Kg	0.167		84.4	30-130			
Pyrene	0.134	0.00067	"	0.167		80.2	30-130			
Fluoranthene	0.136	0.00067	"	0.167		81.4	30-130			
Anthracene	0.13	0.00067	"	0.167		77.8	30-130			
Benzo(a)anthracene	0.132	0.00067	"	0.167		79	30-130			
Benzo(b)fluoranthene	0.142	0.00067	"	0.167		85	30-130			
Chrysene	0.136	0.00067	"	0.167		81.4	30-130			
Dibenz(a,h)anthracene	0.161	0.00067	"	0.167		96.4	30-130			
2-Methylnaphthalene	0.125	0.00067	"	0.167		74.8	30-130			
Fluorene	0.123	0.00067	"	0.167		73.6	30-130			
Indeno(1,2,3-cd)pyrene	0.166	0.00067	"	0.167		99.4	30-130			
1-Methylnaphthalene	0.125	0.00067	"	0.167		74.8	30-130			
Naphthalene	0.114	0.00067	"	0.167		68.2	30-130			
Benzo(a)pyrene	0.148	0.00067	"	0.167		88.6	30-130			

Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

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

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L646022 - 3550B**

**LCS (LCS-L646022)**

Prepared: 10/31/2022 Analyzed: 10/31/2022

Acenaphthene	0.116	0.00067	mg/Kg	0.167		69.4	30-130			
Surrogate: 2-Fluorobiphenyl	79.5		"	0.333		79.5	33-115			
Surrogate: 4-Terphenyl-d14	82.5		"	0.333		82.5	33-122			
Surrogate: Nitrobenzene-d5	72.9		"	0.333		72.9	29-110			

**LRB (LRB-L646022)**

Prepared: 10/31/2022 Analyzed: 10/31/2022

Chrysene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	68.1		"	0.333		68.1	29-110			
Surrogate: 2-Fluorobiphenyl	77.1		"	0.333		77.1	33-115			
Surrogate: 4-Terphenyl-d14	79.8		"	0.333		79.8	33-122			

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

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

**PAH by 8270D-SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L646023 - 3550B**

MSD (L 84127-MSD-L646023)		Source: Y210570-03			Prepared: 10/31/2022 Analyzed: 11/01/2022					
Benzo(a)pyrene	0.108	0.00067	mg/Kg	0.164	0.00158	64.8	30-130	36.3	30	*
Benzo(b)fluoranthene	0.0728	0.00067	"	0.164	0.00201	43.1	30-130	39.8	30	*
Dibenz(a,h)anthracene	0.11	0.00067	"	0.164	0.00122	66.3	30-130	33.3	30	*
2-Methylnaphthalene	0.327	0.00067	"	0.164	0.357	NR	30-130	14.4	30	*
Acenaphthene	0.0935	0.00067	"	0.164	0.0307	38.2	30-130	25.6	30	
Anthracene	0.0334	0.00067	"	0.164	0.000372	20.1	30-130	30.8	30	*
1-Methylnaphthalene	0.41	0.00067	"	0.164	0.433	NR	30-130	19.3	30	*
Benzo(k)fluoranthene	0.0504	0.00067	"	0.164	0.00109	30	30-130	36.8	30	*
Fluoranthene	0.0705	0.00067	"	0.164	0.0038	40.6	30-130	40.2	30	*
Chrysene	0.0928	0.00067	"	0.164	0.0176	45.8	30-130	34.8	30	*
Fluorene	0.162	0.00067	"	0.164	0.101	37.1	30-130	20	30	
Indeno(1,2,3-cd)pyrene	0.0971	0.00067	"	0.164	0.000737	58.7	30-130	34.7	30	*
Naphthalene	0.171	0.00067	"	0.164	0.155	9.7	30-130	23.2	30	*
Pyrene	0.0792	0.00067	"	0.164	0.00859	43	30-130	35.1	30	*
Benzo(a)anthracene	0.0901	0.00067	"	0.164	0.00352	52.7	30-130	30	30	*
Surrogate: 2-Fluorobiphenyl	39.6		"	0.328	117	39.6	33-115			
Surrogate: 4-Terphenyl-d14	46		"	0.328	157	46	33-122			
Surrogate: Nitrobenzene-d5	42.3		"	0.328	151	42.3	29-110			

MS (L 84127-MS-L646023)		Source: Y210570-03			Prepared: 10/31/2022 Analyzed: 11/01/2022					
Benzo(a)pyrene	0.156	0.00067	mg/Kg	0.162	0.00158	95.3	30-130			
1-Methylnaphthalene	0.498	0.00067	"	0.162	0.433	40.1	30-130			
2-Methylnaphthalene	0.378	0.00067	"	0.162	0.357	12.9	30-130			*
Acenaphthene	0.121	0.00067	"	0.162	0.0307	55.7	30-130			
Fluorene	0.198	0.00067	"	0.162	0.101	59.8	30-130			
Pyrene	0.113	0.00067	"	0.162	0.00859	64.4	30-130			
Anthracene	0.0456	0.00067	"	0.162	0.000372	27.9	30-130			*

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

**PAH by 8270D-SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L646023 - 3550B**

MS (L 84127-MS-L646023)		Source: Y210570-03			Prepared: 10/31/2022 Analyzed: 11/01/2022					
Indeno(1,2,3-cd)pyrene	0.138	0.00067	mg/Kg	0.162	0.000737	84.7	30-130			
Benzo(a)anthracene	0.122	0.00067	"	0.162	0.00352	73.1	30-130			
Fluoranthene	0.106	0.00067	"	0.162	0.0038	63	30-130			
Dibenz(a,h)anthracene	0.154	0.00067	"	0.162	0.00122	94.3	30-130			
Chrysene	0.132	0.00067	"	0.162	0.0176	70.6	30-130			
Benzo(k)fluoranthene	0.0732	0.00067	"	0.162	0.00109	44.5	30-130			
Benzo(b)fluoranthene	0.109	0.00067	"	0.162	0.00201	66	30-130			
Naphthalene	0.216	0.00067	"	0.162	0.155	37.6	30-130			
Surrogate: 2-Fluorobiphenyl	64.6		"	0.325	117	64.6	33-115			
Surrogate: 4-Terphenyl-d14	80.9		"	0.325	157	80.9	33-122			
Surrogate: Nitrobenzene-d5	74.1		"	0.325	151	74.1	29-110			

**LCS (LCS-L646023)**

Prepared: 10/31/2022 Analyzed: 11/01/2022

Acenaphthene	0.0825	0.00067	mg/Kg	0.167		49.4	30-130
Naphthalene	0.0775	0.00067	"	0.167		46.4	30-130
Pyrene	0.0947	0.00067	"	0.167		56.7	30-130
Benzo(a)anthracene	0.0932	0.00067	"	0.167		55.8	30-130
Indeno(1,2,3-cd)pyrene	0.07	0.00067	"	0.167		41.9	30-130
1-Methylnaphthalene	0.0852	0.00067	"	0.167		51	30-130
2-Methylnaphthalene	0.086	0.00067	"	0.167		51.4	30-130
Anthracene	0.0898	0.00067	"	0.167		53.7	30-130
Benzo(a)pyrene	0.105	0.00067	"	0.167		62.8	30-130
Benzo(k)fluoranthene	0.0863	0.00067	"	0.167		51.6	30-130
Chrysene	0.0909	0.00067	"	0.167		54.4	30-130
Fluorene	0.0803	0.00067	"	0.167		48	30-130
Dibenz(a,h)anthracene	0.0743	0.00067	"	0.167		44.4	30-130
Fluoranthene	0.0943	0.00067	"	0.167		56.4	30-130

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Project: KOCH 41-6

**PAH by 8270D-SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L646023 - 3550B**

**LCS (LCS-L646023)**

Prepared: 10/31/2022 Analyzed: 11/01/2022

Benzo(b)fluoranthene	0.098	0.00067	mg/Kg	0.167		58.6	30-130			
Surrogate: Nitrobenzene-d5	44.1		"	0.333		44.1	29-110			
Surrogate: 4-Terphenyl-d14	59.4		"	0.333		59.4	33-122			
Surrogate: 2-Fluorobiphenyl	54		"	0.333		54	33-115			

**LRB (LRB-L646023)**

Prepared: 10/31/2022 Analyzed: 11/01/2022

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	60.9		"	0.333		60.9	33-122			
Surrogate: 2-Fluorobiphenyl	52.5		"	0.333		52.5	33-115			
Surrogate: Nitrobenzene-d5	47.1		"	0.333		47.1	29-110			

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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 L646643 -										
<b>DUP (L 82254-DUP)</b>		<b>Source: 82254</b>			Prepared: Analyzed: 11/02/2022					
Chromium, Hexavalent	ND	1	mg/Kg		<1.00	-		0	20	
<b>MS (L 82254-MS)</b>		<b>Source: 82254</b>			Prepared: Analyzed: 11/02/2022					
Chromium, Hexavalent	30	2.5	mg/Kg	38.7	< 0.497	78	75-125			
<b>MSD (L 82254-MSD)</b>		<b>Source: 82254</b>			Prepared: Analyzed: 11/02/2022					
Chromium, Hexavalent	548	50	mg/Kg	631	<24.4	87	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 11/02/2022					
Chromium, Hexavalent	6.37	0.5	mg/Kg	8		80	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 11/02/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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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
<b>Batch L646416 -</b>										
<b>DUP (L 84099-DUP)</b>		<b>Source: 84099</b>			Prepared: Analyzed: 11/01/2022					
Chromium, Hexavalent	ND	0.519	mg/Kg		<0.519	-		0	20	
<b>MS (L 84099-MS)</b>		<b>Source: 84099</b>			Prepared: Analyzed: 11/01/2022					
Chromium, Hexavalent	32.8	2.5	mg/Kg	39.5	< 0.244	83	75-125			
<b>MSD (L 84099-MSD)</b>		<b>Source: 84099</b>			Prepared: Analyzed: 11/01/2022					
Chromium, Hexavalent	667	50.2	mg/Kg	698	<24.5	96	75-125			

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1700 Lincoln St #4550  
Denver CO 80203

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

## Notes and Definitions

U Sample is Non-Detect.

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 Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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