



January 29, 2024

KP Kauffman Co. Inc.

Dan Motisi

1700 Lincoln St #4550

Denver CO 80203

Project Name - Facility 1

Project Number - [none]

Attached are your analytical results for Facility 1 received by Origins Laboratory, Inc. January 11, 2024. This project is associated with Origins project number Y401289-01.

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

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

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

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

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

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



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

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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-7@10'	Y401289-01	Soil	January 10, 2024 0:00	01/11/2024 16:05
B-13@15'	Y401289-02	Soil	January 11, 2024 0:00	01/11/2024 16:05
B-13@10'	Y401289-03	Soil	January 11, 2024 0:00	01/11/2024 16:05
B-14@10'	Y401289-04	Soil	January 11, 2024 0:00	01/11/2024 16:05
B-15@10	Y401289-05	Soil	January 11, 2024 0:00	01/11/2024 16:05
B-15@15	Y401289-06	Soil	January 11, 2024 0:00	01/11/2024 16:05
B-16@10	Y401289-07	Soil	January 11, 2024 0:00	01/11/2024 16:05
B-17@10	Y401289-08	Soil	January 11, 2024 0:00	01/11/2024 16:05
B-18@10	Y401289-09	Soil	January 11, 2024 0:00	01/11/2024 16:05
B-18@15	Y401289-10	Soil	January 11, 2024 0:00	01/11/2024 16:05
B-19@10	Y401289-11	Soil	January 11, 2024 0:00	01/11/2024 16:05
MW-4@10	Y401289-12	Soil	January 11, 2024 0:00	01/11/2024 16:05
MW-4@20	Y401289-13	Soil	January 11, 2024 0:00	01/11/2024 16:05

Origins Laboratory, Inc.



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Dan Motisi  
Project Number: [none]  
Project: Facility 1

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4401289

page 1 of 2

**ORIGINS** LABORATORY, INC

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

Project Manager: Dan Motisi  
Project Name: Facility 1  
Project Number:  
Samples Collected By: jpeterson@kpk.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
B-7.2.10'	1-10-24		3	Unpreserved	Soil	Table 915.1	1
B-13.2.15'	1-11-24		1	Unpreserved	Soil	Table 915.1	2
B-13.2.10'				Unpreserved	Soil	Table 915.1	3
B-14.2.10'				Unpreserved	Soil	Table 915.1	4
B-15.2.10				Unpreserved	Soil	Table 915.1	5
B-15.2.15				Unpreserved	Soil	Table 915.1	6
B-16.2.10				Unpreserved	Soil	Table 915.1	7
B-17.2.10				Unpreserved	Soil	Table 915.1	8
B-18.2.10				Unpreserved	Soil	Table 915.1	9
B-18.2.15				Unpreserved	Soil	Table 915.1	10
Relinquished By:	Date: 1-11-24	Time: 1605	Received By:	Date: 1-11-24	Time: 1605	Turnaround Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	

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

Origins Laboratory, Inc.

*J. Bynon*

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Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

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page 2 of 2

**ORIGINS**  
LABORATORY, INC

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

Project Manager: Dan Motisi  
Project Name: Facility 1  
Project Number:  
Samples Collected By: ipeterson@kpk.com

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 Canister #		
B-19-C-10	1-11-24		3									1
M44-C-10												2
M44-C-20												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 1-11-24 Time: 1605  
Relinquished By: [Signature] Date: 1-11-24 Time: 1605

Received By: [Signature] Date: 1-11-24 Time: 1605  
Received By: [Signature] Date: 1-11-24 Time: 1605

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

42

Date Due: 11/11/24

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

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*J. Bynon*

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1700 Lincoln St #4550  
Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: 44012800

Client: KPIC

Client Project ID: Fac 1

Checklist Completed by: EHS

Shipped Via: HD

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

Date/time completed: 1/11/24

Airbill #: N/A

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

Cooler Number/Temperature: 1,43 °C        °C        °C (Describe)        °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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) [Signature]

1/15/24  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-7@10'

1/10/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.186	0.100	mg/L	1	B4A1608	01/16/2024	01/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.5 %	50-150			"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024	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	107 %	70-130			"	"	"
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Denver CO 80203

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Project Number: [none]  
Project: Facility 1

B-7@10'

1/10/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	109 %	70-130				B4A12 48	01/12/2024	01/15/2024	
Surrogate: 4-Bromofluorobenzene	84.2 %	70-130				"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.39	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024	
Magnesium	0.983	0.823	"	"	"	"	"	
Sodium	0.654	0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

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Dan Motisi  
Project Number: [none]  
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B-7@10'

1/10/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	93.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.33	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	0.503	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.443	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

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Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-7@10'

1/10/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.54	0.0891	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Barium	202	8.91	"	"	"	"	"
Cadmium	0.225	0.0891	"	"	"	"	"
Copper	14.0	8.91	"	"	"	"	"
Lead	12.1	0.891	"	"	"	"	"
Nickel	12.5	0.891	"	"	"	"	"
Selenium	0.175	0.0891	"	"	"	"	"
Silver	ND	0.0891	"	"	"	"	"
Zinc	52.9	8.91	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728937	01/10/2024	01/26/2024
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1700 Lincoln St #4550  
Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-13@15'  
1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.732	0.101	mg/L	1	B4A1608	01/16/2024	01/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.2 %	50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0119	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024	
1,3,5-Trimethylbenzene	0.00352	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.79	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-13@15'  
1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-02 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	84.4 %	70-130		B4A12 48	01/12/2024	01/15/2024
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## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.01	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	0.092	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	
2-Methylnaphthalene	0.094	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

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1700 Lincoln St #4550  
Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-13@15'  
1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-02 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Naphthalene	0.037	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	89.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.59	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	5.99	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.435	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

Arsenic	4.45	0.0921	mg/kg	10	B4A1225	01/12/2024	01/15/2024
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1700 Lincoln St #4550  
Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-13@15'

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-02 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	50.3	9.21	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Cadmium	0.110	0.0921	"	"	"	"	"
Copper	9.56	9.21	"	"	"	"	"
Lead	11.8	0.921	"	"	"	"	"
Nickel	11.2	0.921	"	"	"	"	"
Selenium	ND	0.0921	"	"	"	"	"
Silver	ND	0.0921	"	"	"	"	"
Zinc	46.0	9.21	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728937	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-13@10'  
1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.09	0.0999	mg/L	1	B4A1608	01/16/2024	01/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.0 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024	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	111 %	70-130	"	"	"
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-13@10'  
1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-03 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	109 %	70-130	B4A12 48	01/12/2024	01/15/2024
Surrogate: 4-Bromofluorobenzene	84.6 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	0.570	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	0.923	0.823	"	"	"	"	"
Sodium	4.30	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-13@10'  
1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-03 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	92.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	103 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.58	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	4.98	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.570	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-13@10'

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.36	0.0953	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Barium	78.7	9.53	"	"	"	"	"
Cadmium	0.117	0.0953	"	"	"	"	"
Copper	12.2	9.53	"	"	"	"	"
Lead	11.7	0.953	"	"	"	"	"
Nickel	13.2	0.953	"	"	"	"	"
Selenium	0.141	0.0953	"	"	"	"	"
Silver	ND	0.0953	"	"	"	"	"
Zinc	49.3	9.53	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728937	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-14@10'  
1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.11	0.0994	mg/L	1	B4A1608	01/16/2024	01/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.7 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024	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	108 %	70-130	"	"	"
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-14@10'

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	109 %	70-130				B4A12 48	01/12/2024	01/15/2024	
Surrogate: 4-Bromofluorobenzene	84.3 %	70-130				"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.61	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024	
Magnesium	3.68	0.823	"	"	"	"	"	
Sodium	11.9	0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-14@10'  
1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-04 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.39	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	6.73	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.74	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-14@10'

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-04 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	5.13	0.0859	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Barium	70.4	8.59	"	"	"	"	"
Cadmium	0.197	0.0859	"	"	"	"	"
Copper	11.4	8.59	"	"	"	"	"
Lead	10.4	0.859	"	"	"	"	"
Nickel	11.1	0.859	"	"	"	"	"
Selenium	0.165	0.0859	"	"	"	"	"
Silver	ND	0.0859	"	"	"	"	"
Zinc	47.5	8.59	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728937	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-15@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.531	0.0999	mg/L	1	B4A1608	01/16/2024	01/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.3 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0729	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024	
1,3,5-Trimethylbenzene	0.0334	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.0219	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.0769	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.89	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	108 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-15@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-05 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.3 %	70-130	B4A12 48	01/12/2024	01/15/2024
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## Metals by Saturated Paste by EPA 6010

Calcium	0.641	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	0.853	0.823	"	"	"	"	"
Sodium	2.38	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	0.061	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	
2-Methylnaphthalene	0.089	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-15@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-05 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Naphthalene	0.029	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	91.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.45	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	2.75	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.369	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

Arsenic	5.18	0.0980	mg/kg	10	B4A1225	01/12/2024	01/15/2024
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-15@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-05 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	82.4	9.80	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Cadmium	0.161	0.0980	"	"	"	"	"
Copper	12.3	9.80	"	"	"	"	"
Lead	11.9	0.980	"	"	"	"	"
Nickel	13.0	0.980	"	"	"	"	"
Selenium	0.173	0.0980	"	"	"	"	"
Silver	ND	0.0980	"	"	"	"	"
Zinc	51.3	9.80	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728937	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-15@15

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.515	0.0995	mg/L	1	B4A1608	01/16/2024	01/17/2024
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	708	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024
Residual Range Organics (C28-C40)	242	100	"	"	"	"	"

Surrogate: o-Terphenyl	103 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	20.3	0.500	mg/kg	250	B4A1248	01/12/2024	01/17/2024
1,3,5-Trimethylbenzene	0.291	0.00200	"	1	"	"	01/15/2024
Benzene	0.0544	0.00200	"	"	"	"	"
Ethylbenzene	0.304	0.00200	"	"	"	"	"
Toluene	ND	0.00200	"	"	"	"	" U
Xylenes, total	8.41	0.00200	"	"	"	"	01/16/2024
Gasoline Range Hydrocarbons	1260	50.0	"	250	"	"	01/17/2024

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	"	"	01/15/2024
Surrogate: Toluene-d8	125 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	127 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-15@15

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-06 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.723	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	1.27	0.823	"	"	"	"	"
Sodium	2.10	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	3.93	0.020	mg/kg	10	B4A1602	01/16/2024	01/19/2024
2-Methylnaphthalene	6.17	0.020	"	"	"	"	"
Acenaphthene	0.358	0.020	"	1	"	"	01/19/2024
Anthracene	ND	0.020	"	"	"	"	" U
Benzo (a) anthracene	ND	0.010	"	2	"	"	01/19/2024 R-01, U
Benzo (a) pyrene	ND	0.040	"	"	"	"	" R-01, U
Benzo (b) fluoranthene	ND	0.040	"	"	"	"	" R-01, U
Benzo (k) fluoranthene	ND	0.040	"	"	"	"	" R-01, U
Chrysene	ND	0.040	"	"	"	"	" R-01, U
Dibenz (a,h) anthracene	ND	0.040	"	"	"	"	" R-01, U
Fluoranthene	ND	0.020	"	1	"	"	01/19/2024 U
Fluorene	0.616	0.020	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.040	"	2	"	"	01/19/2024 R-01, U
Naphthalene	2.44	0.020	"	10	"	"	01/19/2024
Pyrene	ND	0.040	"	2	"	"	01/19/2024 R-01, U
Surrogate: Fluorene-d10	95.5 %	60-130			"	"	01/19/2024

Origins Laboratory, Inc.



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

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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-15@15

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-06 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	104 %	60-130	B4A1602	01/16/2024	01/19/2024
Surrogate: Pyrene-d10	80.7 %	60-130	"	"	01/19/2024
Surrogate: Benzo (a) pyrene-d12	97.7 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.28	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	2.11	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.347	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

Arsenic	4.10	0.0875	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Barium	86.4	8.75	"	"	"	"	"
Cadmium	1.16	0.0875	"	"	"	"	"
Copper	10.6	8.75	"	"	"	"	"
Lead	11.5	0.875	"	"	"	"	"
Nickel	10.5	0.875	"	"	"	"	"
Selenium	0.167	0.0875	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-15@15

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-06 (Soil)

## Table 915 metals by EPA 6020B

Silver	ND		0.0875	mg/kg	10	B4A1225	01/12/2024	01/15/2024	
Zinc	48.6		8.75	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728937	01/10/2024	01/26/2024	
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Origins Laboratory, Inc.



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

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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

**B-16@10**

**1/11/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.11	0.0999	mg/L	1	B4A1608	01/16/2024	01/17/2024
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	115	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	101 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.287	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024
1,3,5-Trimethylbenzene	0.120	0.00200	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	" U
Ethylbenzene	0.0807	0.00200	"	"	"	"	"
Toluene	0.0314	0.00200	"	"	"	"	"
Xylenes, total	0.151	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	17.0	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	112 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-16@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-07 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.95	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	2.71	0.823	"	"	"	"	"
Sodium	8.66	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	0.192	0.002	mg/kg	1	B4A1602	01/16/2024	01/18/2024	
2-Methylnaphthalene	0.264	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	0.031	0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	0.066	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	95.7 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-16@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-07 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	113 %	60-130	B4A1602	01/16/2024	01/18/2024
Surrogate: Pyrene-d10	92.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.41	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	5.67	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.20	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

Arsenic	5.79	0.0897	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Barium	259	8.97	"	"	"	"	"
Cadmium	0.207	0.0897	"	"	"	"	"
Copper	9.96	8.97	"	"	"	"	"
Lead	10.5	0.897	"	"	"	"	"
Nickel	12.0	0.897	"	"	"	"	"
Selenium	0.189	0.0897	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-16@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-07 (Soil)

## Table 915 metals by EPA 6020B

Silver	ND	0.0897	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Zinc	44.0	8.97	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L728937	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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

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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-17@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.901	0.0999	mg/L	1	B4A1608	01/16/2024	01/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.1 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024	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	"	"	"	"	01/17/2024	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	01/15/2024
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Origins Laboratory, Inc.



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

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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-17@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-08 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	110 %	70-130				B4A12 48	01/12/2024	01/15/2024	
Surrogate: 4-Bromofluorobenzene	85.0 %	70-130				"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	4.65	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024	
Magnesium	3.87	0.823	"	"	"	"	"	
Sodium	10.9	0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-17@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-08 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	103 %	60-130	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	110 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.30	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	5.30	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.79	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-17@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-08 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	7.70	0.0882	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Barium	134	8.82	"	"	"	"	"
Cadmium	0.189	0.0882	"	"	"	"	"
Copper	11.2	8.82	"	"	"	"	"
Lead	9.66	0.882	"	"	"	"	"
Nickel	10.0	0.882	"	"	"	"	"
Selenium	0.263	0.0882	"	"	"	"	"
Silver	ND	0.0882	"	"	"	"	"
Zinc	40.8	8.82	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L728937	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-18@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.330	0.100	mg/L	1	B4A1608	01/16/2024	01/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024	U
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	ND	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024	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	108 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-18@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-09 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	109 %	70-130				B4A12 48	01/12/2024	01/15/2024	
Surrogate: 4-Bromofluorobenzene	83.0 %	70-130				"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.17	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024	
Magnesium	1.32	0.823	"	"	"	"	"	
Sodium	1.68	0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-18@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-09 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	87.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.55	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	1.50	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.369	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-18@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-09 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	31.5	0.0856	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Barium	176	8.56	"	"	"	"	"
Cadmium	0.496	0.0856	"	"	"	"	"
Copper	25.4	8.56	"	"	"	"	"
Lead	20.8	0.856	"	"	"	"	"
Nickel	21.1	0.856	"	"	"	"	01/16/2024
Selenium	0.760	0.0856	"	"	"	"	01/15/2024
Silver	ND	0.0856	"	"	"	"	"
Zinc	56.3	8.56	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729101	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-18@15

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.485	0.100	mg/L	1	B4A1608	01/16/2024	01/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.3 %	50-150	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00430	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024	
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	3.74	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	107 %	70-130	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-18@15

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-10 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	87.7 %	70-130	B4A12 48	01/12/2024	01/15/2024
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## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	0.824	0.823	"	"	"	"	"
Sodium	3.93	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	
2-Methylnaphthalene	0.002	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-18@15

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-10 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	90.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.66	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	5.07	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.489	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

Arsenic	6.18	0.0838	mg/kg	10	B4A1225	01/12/2024	01/15/2024
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-18@15

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-10 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	250	8.38	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Cadmium	0.217	0.0838	"	"	"	"	"
Copper	12.7	8.38	"	"	"	"	"
Lead	15.4	0.838	"	"	"	"	"
Nickel	13.9	0.838	"	"	"	"	"
Selenium	0.226	0.0838	"	"	"	"	"
Silver	ND	0.0838	"	"	"	"	"
Zinc	52.1	8.38	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729101	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-19@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.274	0.101	mg/L	1	B4A1608	01/16/2024	01/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.2 %	50-150			"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024	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	108 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-19@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-11 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	110 %	70-130	B4A12 48	01/12/2024	01/15/2024
Surrogate: 4-Bromofluorobenzene	83.7 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	1.16	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.60	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-19@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-11 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B4A1602	01/16/2024	01/17/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	107 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.5 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.43	pH Units	1	B4A1607	01/16/2024	01/16/2024
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**SAR by 20B Saturated Paste**

SAR	2.74	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.406	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

B-19@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-11 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.62	0.0952	mg/kg	10	B4A1225	01/12/2024	01/15/2024
Barium	164	9.52	"	"	"	"	"
Cadmium	0.172	0.0952	"	"	"	"	"
Copper	12.2	9.52	"	"	"	"	"
Lead	10.4	0.952	"	"	"	"	"
Nickel	13.0	0.952	"	"	"	"	"
Selenium	0.136	0.0952	"	"	"	"	"
Silver	ND	0.0952	"	"	"	"	"
Zinc	46.5	9.52	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L729101	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

## MW-4@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y401289-12 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.314	0.0998	mg/L	1	B4A1608	01/16/2024	01/17/2024	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.8 %	50-150	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0148	0.00200	mg/kg	1	B4A1248	01/12/2024	01/15/2024	
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	0.703	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	109 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

MW-4@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-12 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	85.4 %	70-130	B4A12 48	01/12/2024	01/15/2024
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## Metals by Saturated Paste by EPA 6010

Calcium	0.916	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	0.878	0.823	"	"	"	"	"
Sodium	3.57	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	0.079	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024
2-Methylnaphthalene	0.171	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	" U
Anthracene	ND	0.020	"	"	"	"	" U
Benzo (a) anthracene	0.023	0.005	"	"	"	"	"
Benzo (a) pyrene	ND	0.020	"	"	"	"	" U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	" U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	" U
Chrysene	ND	0.020	"	"	"	"	" U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	" U
Fluoranthene	0.037	0.020	"	"	"	"	"
Fluorene	0.028	0.020	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	" U

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

## MW-4@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y401289-12 (Soil)

### PAH by EPA 8270E

Naphthalene	0.047	0.002	mg/kg	1	B4A1602	01/16/2024	01/17/2024
Pyrene	0.057	0.020	"	"	"	"	"

Surrogate: Fluorene-d10	98.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	108 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.59	pH Units	1	B4A1607	01/16/2024	01/16/2024
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### SAR by 20B Saturated Paste

SAR	3.77	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.467	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.78	0.0929	mg/kg	10	B4A1226	01/12/2024	01/15/2024
Barium	159	9.29	"	"	"	"	"
Cadmium	0.192	0.0929	"	"	"	"	"

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

MW-4@10

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-12 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	12.6	9.29	mg/kg	10	B4A1226	01/12/2024	01/15/2024
Lead	10.9	0.929	"	"	"	"	"
Nickel	13.3	0.929	"	"	"	"	"
Selenium	0.149	0.0929	"	"	"	"	"
Silver	ND	0.0929	"	"	"	"	"
Zinc	48.0	9.29	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729101	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

## MW-4@20

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y401289-13 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.604	0.0997	mg/L	1	B4A1608	01/16/2024	01/17/2024
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	510	25.0	mg/kg	1	B4A1502	01/15/2024	01/16/2024
Residual Range Organics (C28-C40)	119	100	"	"	"	"	"

Surrogate: o-Terphenyl	102 %	50-150	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	5.94	0.0500	mg/kg	25	B4A1248	01/12/2024	01/15/2024
1,3,5-Trimethylbenzene	0.0225	0.00200	"	1	"	"	01/15/2024
Benzene	0.143	0.00200	"	"	"	"	"
Ethylbenzene	0.227	0.00200	"	"	"	"	"
Toluene	ND	0.00200	"	"	"	"	" U
Xylenes, total	0.109	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	311	5.00	"	25	"	"	01/15/2024

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	01/15/2024
Surrogate: Toluene-d8	144 %	70-130	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	92.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

MW-4@20

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401289-13 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.611	0.499	meq/L	10	[CALC]	01/15/2024	01/17/2024
Magnesium	1.68	0.823	"	"	"	"	"
Sodium	3.85	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	1.59	0.004	mg/kg	2	B4A1602	01/16/2024	01/18/2024
2-Methylnaphthalene	3.76	0.020	"	10	"	"	01/18/2024
Acenaphthene	ND	0.020	"	1	"	"	01/18/2024 U
Anthracene	0.044	0.020	"	"	"	"	"
Benzo (a) anthracene	0.026	0.010	"	2	"	"	01/18/2024
Benzo (a) pyrene	ND	0.040	"	"	"	"	" R-01, U
Benzo (b) fluoranthene	ND	0.040	"	"	"	"	" R-01, U
Benzo (k) fluoranthene	ND	0.040	"	"	"	"	" R-01, U
Chrysene	ND	0.040	"	"	"	"	" R-01, U
Dibenz (a,h) anthracene	ND	0.040	"	"	"	"	" R-01, U
Fluoranthene	0.031	0.020	"	1	"	"	01/18/2024
Fluorene	0.264	0.020	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.040	"	2	"	"	01/18/2024 R-01, U
Naphthalene	0.731	0.002	"	1	"	"	01/18/2024
Pyrene	ND	0.040	"	2	"	"	01/18/2024 R-01, U
Surrogate: Fluorene-d10	95.2 %	60-130			"	"	01/18/2024
Surrogate: Anthracene-d10	139 %	60-130			"	"	" S-04

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Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

## MW-4@20

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y401289-13 (Soil)

### PAH by EPA 8270E

Surrogate: Pyrene-d10	106 %	60-130	B4A1602	01/16/2024	01/18/2024
Surrogate: Benzo (a) pyrene-d12	109 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.42	pH Units	1	B4A1607	01/16/2024	01/16/2024
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### SAR by 20B Saturated Paste

SAR	3.60	0.0100	SAR	1	B4A1511	01/15/2024	01/17/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.595	0.00500	mmhos/cm	1	B4A1607	01/16/2024	01/16/2024
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### Table 915 metals by EPA 6020B

Arsenic	9.14	0.0982	mg/kg	10	B4A1226	01/12/2024	01/15/2024
Barium	280	9.82	"	"	"	"	"
Cadmium	0.194	0.0982	"	"	"	"	"
Copper	12.5	9.82	"	"	"	"	"
Lead	13.8	0.982	"	"	"	"	"
Nickel	14.7	0.982	"	"	"	"	"
Selenium	0.435	0.0982	"	"	"	"	01/17/2024
Silver	ND	0.0982	"	"	"	"	01/15/2024

Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

MW-4@20

1/11/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y401289-13 (Soil)

## Table 915 metals by EPA 6020B

Zinc	55.7		9.82	mg/kg	10	B4A1226	01/12/2024	01/15/2024
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## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729101	01/10/2024	01/26/2024
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Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

**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 B4A1248 - EPA 5030 (soil)</b>										
<b>Blank (B4A1248-BLK1)</b>					Prepared: 01/12/2024 Analyzed: 01/15/2024					
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	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	112		70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	83.7		70-130			

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1700 Lincoln St #4550  
Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

**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 B4A1248 - EPA 5030 (soil)</b>										
<b>LCS (B4A1248-BS1)</b>					Prepared: 01/12/2024 Analyzed: 01/15/2024					
1,2,4-Trimethylbenzene	0.0873	0.00200	mg/kg	0.100		87.3	70-130			
1,3,5-Trimethylbenzene	0.0875	0.00200	"	0.100		87.5	70-130			
Benzene	0.0901	0.00200	"	0.100		90.1	70-130			
Ethylbenzene	0.0932	0.00200	"	0.100		93.2	70-130			
Naphthalene	0.0934	0.00380	"	0.100		93.4	70-130			
Toluene	0.0896	0.00200	"	0.100		89.6	70-130			
o-Xylene	0.0924	0.00200	"	0.100		92.4	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.2	70-130			

Origins Laboratory, Inc.



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Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

**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 B4A1248 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B4A1248-MS1)</b>		<b>Source: Y401289-01</b>			Prepared: 01/12/2024 Analyzed: 01/15/2024					
1,2,4-Trimethylbenzene	0.0971	0.00200	mg/kg	0.100	ND	97.1	70-130			
1,3,5-Trimethylbenzene	0.0992	0.00200	"	0.100	ND	99.2	70-130			
Benzene	0.0869	0.00200	"	0.100	ND	86.9	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.0814	0.00380	"	0.100	ND	81.4	70-130			
Toluene	0.0926	0.00200	"	0.100	ND	92.6	70-130			
o-Xylene	0.0999	0.00200	"	0.100	ND	99.9	70-130			
m,p-Xylene	0.201	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.7	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.9	70-130			

Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

**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 B4A1248 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B4A1248-MSD1)</b>			<b>Source: Y401289-01</b>		Prepared: 01/12/2024 Analyzed: 01/15/2024					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	7.28	20	
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	5.11	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	14.8	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	5.19	20	
Naphthalene	0.105	0.00380	"	0.100	ND	105	70-130	25.1	20	QR-02
Toluene	0.103	0.00200	"	0.100	ND	103	70-130	10.5	20	
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130	7.16	20	
m,p-Xylene	0.212	0.00400	"	0.200	ND	106	70-130	5.36	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.7	70-130			

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

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

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1502 - EPA 3550B										
Blank (B4A1502-BLK1)					Prepared: 01/15/2024 Analyzed: 01/16/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.3	50-150			

Origins Laboratory, Inc.



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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

## 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 B4A1502 - EPA 3550B

### LCS (B4A1502-BS1)

Prepared: 01/15/2024 Analyzed: 01/16/2024

Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Residual Range Organics (C28-C40)	811	200	"	1000		81.1	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.



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1700 Lincoln St #4550  
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Dan Motisi  
Project Number: [none]  
Project: Facility 1

## 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 B4A1502 - EPA 3550B

Matrix Spike (B4A1502-MS1)		Source: Y401289-01			Prepared: 01/15/2024 Analyzed: 01/16/2024					
Diesel (C10-C28)	889	50.0	mg/kg	1000	ND	88.9	70-130			
Residual Range Organics (C28-C40)	832	200	"	1000	ND	83.2	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.6	50-150			

Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1502 - EPA 3550B										
Matrix Spike Dup (B4A1502-MSD1)		Source: Y401289-01			Prepared: 01/15/2024 Analyzed: 01/16/2024					
Diesel (C10-C28)	879	50.0	mg/kg	1000	ND	87.9	70-130	1.14	35	
Residual Range Organics (C28-C40)	824	200	"	1000	ND	82.4	70-130	0.956	35	
Surrogate: o-Terphenyl	47		"	49.8		94.3	50-150			

Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

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

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B4A1225 - EPA 3050B

#### Blank (B4A1225-BLK1)

Prepared: 01/12/2024 Analyzed: 01/15/2024

Arsenic	ND	0.0100	mg/kg
Barium	ND	1.00	"
Cadmium	ND	0.0100	"
Copper	ND	1.00	"
Lead	ND	0.100	"
Nickel	ND	0.100	"
Selenium	ND	0.0100	"
Silver	ND	0.0100	"
Zinc	ND	1.00	"

#### LCS (B4A1225-BS1)

Prepared: 01/12/2024 Analyzed: 01/15/2024

Arsenic	5.01	0.0100	mg/kg	5.00	100	80-120
Barium	495	1.00	"	500	98.9	80-120
Cadmium	5.08	0.0100	"	5.00	102	80-120
Copper	52.5	1.00	"	50.0	105	80-120
Lead	4.95	0.100	"	5.00	99.1	80-120
Nickel	4.84	0.100	"	5.00	96.7	80-120
Selenium	4.74	0.0100	"	5.00	94.8	80-120
Silver	5.43	0.0100	"	5.00	109	80-120
Zinc	49.2	1.00	"	50.0	98.4	80-120

#### Matrix Spike (B4A1225-MS1)

Source: Y401200-08

Prepared: 01/12/2024 Analyzed: 01/15/2024

Origins Laboratory, Inc.



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Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

## 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 B4A1225 - EPA 3050B

Matrix Spike (B4A1225-MS1)		Source: Y401200-08			Prepared: 01/12/2024 Analyzed: 01/15/2024					
Arsenic	8.69	0.0886	mg/kg	4.43	4.99	83.5	75-125			QM-07
Barium	588	8.86	"	443	134	103	75-125			
Cadmium	4.86	0.0886	"	4.43	0.192	105	75-125			
Copper	54.2	8.86	"	44.3	9.96	99.9	75-125			
Lead	14.2	0.886	"	4.43	10.5	84.4	75-125			QM-07
Nickel	14.5	0.886	"	4.43	10.7	86.0	75-125			QM-07
Selenium	4.52	0.0886	"	4.43	0.167	98.2	75-125			
Silver	4.94	0.0886	"	4.43	0.0439	111	75-125			
Zinc	83.7	8.86	"	44.3	45.1	87.0	75-125			

Matrix Spike Dup (B4A1225-MSD1)		Source: Y401200-08			Prepared: 01/12/2024 Analyzed: 01/15/2024					
Arsenic	8.44	0.0924	mg/kg	4.62	4.99	74.6	75-125	2.97	20	
Barium	595	9.24	"	462	134	99.8	75-125	1.13	20	
Cadmium	4.93	0.0924	"	4.62	0.192	103	75-125	1.42	20	
Copper	54.7	9.24	"	46.2	9.96	96.9	75-125	0.870	20	
Lead	14.0	0.924	"	4.62	10.5	77.0	75-125	1.28	20	QM-07
Nickel	14.3	0.924	"	4.62	10.7	77.5	75-125	1.57	20	QM-07
Selenium	4.73	0.0924	"	4.62	0.167	98.8	75-125	4.57	20	
Silver	4.98	0.0924	"	4.62	0.0439	107	75-125	0.696	20	
Zinc	81.3	9.24	"	46.2	45.1	78.3	75-125	2.90	20	

#### Batch B4A1226 - EPA 3050B

Blank (B4A1226-BLK1)		Prepared: 01/12/2024 Analyzed: 01/15/2024								
Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Copper	ND	1.00	"							

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.  
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Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

**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
<b>Batch B4A1226 - EPA 3050B</b>										
<b>Blank (B4A1226-BLK1)</b>					Prepared: 01/12/2024 Analyzed: 01/15/2024					
Lead	ND	0.100	mg/kg							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Zinc	ND	1.00	"							
<b>LCS (B4A1226-BS1)</b>					Prepared: 01/12/2024 Analyzed: 01/15/2024					
Arsenic	5.03	0.0100	mg/kg	5.00		101	80-120			
Barium	489	1.00	"	500		97.9	80-120			
Copper	52.5	1.00	"	50.0		105	80-120			
Lead	4.95	0.100	"	5.00		99.0	80-120			
Nickel	4.71	0.100	"	5.00		94.2	80-120			
Selenium	4.53	0.0100	"	5.00		90.6	80-120			
Zinc	49.2	1.00	"	50.0		98.5	80-120			
<b>Matrix Spike (B4A1226-MS1)</b>					<b>Source: Y401289-12</b>		Prepared: 01/12/2024 Analyzed: 01/15/2024			
Arsenic	10.0	0.0906	mg/kg	4.53	4.78	115	75-125			
Barium	666	9.06	"	453	159	112	75-125			
Copper	60.5	9.06	"	45.3	12.6	106	75-125			
Lead	17.1	0.906	"	4.53	10.9	137	75-125			QM-07
Nickel	17.9	0.906	"	4.53	13.3	101	75-125			
Selenium	4.82	0.0906	"	4.53	0.149	103	75-125			
Zinc	99.3	9.06	"	45.3	48.0	113	75-125			
<b>Matrix Spike Dup (B4A1226-MSD1)</b>					<b>Source: Y401289-12</b>		Prepared: 01/12/2024 Analyzed: 01/15/2024			
Arsenic	9.56	0.0926	mg/kg	4.63	4.78	103	75-125	4.61	20	
Barium	658	9.26	"	463	159	108	75-125	1.08	20	
Copper	59.5	9.26	"	46.3	12.6	101	75-125	1.53	20	

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

Dan Motisi  
Project Number: [none]  
Project: Facility 1

**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 B4A1226 - EPA 3050B

Matrix Spike Dup (B4A1226-MSD1)				Source: Y401289-12		Prepared: 01/12/2024 Analyzed: 01/15/2024				
Lead	16.5	0.926	mg/kg	4.63	10.9	123	75-125	3.14	20	
Nickel	17.8	0.926	"	4.63	13.3	95.7	75-125	0.714	20	
Selenium	4.72	0.0926	"	4.63	0.149	98.7	75-125	1.97	20	
Zinc	96.0	9.26	"	46.3	48.0	104	75-125	3.41	20	

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Dan Motisi  
Project Number: [none]  
Project: Facility 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A1602 - EPA 3580**

**Blank (B4A1602-BLK1)**

Prepared: 01/16/2024 Analyzed: 01/18/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

**LCS (B4A1602-BS1)**

Prepared: 01/16/2024 Analyzed: 01/17/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200		98.8	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200		95.5	70-130			
Acenaphthene	0.186	0.020	"	0.200		92.9	70-130			
Anthracene	0.194	0.020	"	0.200		97.0	70-130			

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Denver CO 80203

Dan Motisi  
Project Number: [none]  
Project: Facility 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A1602 - EPA 3580**

**LCS (B4A1602-BS1)**

Prepared: 01/16/2024 Analyzed: 01/17/2024

Benzo (a) anthracene	0.218	0.005	mg/kg	0.200		109	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.3	70-130			
Benzo (b) fluoranthene	0.247	0.020	"	0.200		124	70-130			
Benzo (g,h,i) perylene	0.218	0.020	"	0.200		109	70-130			
Benzo (k) fluoranthene	0.205	0.020	"	0.200		103	70-130			
Chrysene	0.207	0.020	"	0.200		103	70-130			
Dibenz (a,h) anthracene	0.208	0.020	"	0.200		104	70-130			
Fluoranthene	0.199	0.020	"	0.200		99.6	70-130			
Fluorene	0.182	0.020	"	0.200		90.8	70-130			
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200		105	70-130			
Naphthalene	0.194	0.002	"	0.200		97.0	70-130			
Phenanthrene	0.190	0.020	"	0.200		95.0	70-130			
Pyrene	0.245	0.020	"	0.200		123	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.8	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

**Matrix Spike (B4A1602-MS1)**

**Source: Y401200-01**

Prepared: 01/16/2024 Analyzed: 01/17/2024

1-Methylnaphthalene	0.297	0.002	mg/kg	0.200	0.066	115	70-130			
2-Methylnaphthalene	0.366	0.002	"	0.200	0.159	103	70-130			
Acenaphthene	0.186	0.020	"	0.200	ND	92.9	70-130			
Anthracene	0.209	0.020	"	0.200	0.004	103	70-130			
Benzo (a) anthracene	0.208	0.005	"	0.200	0.003	102	70-130			
Benzo (a) pyrene	0.227	0.020	"	0.200	0.001	113	70-130			
Benzo (b) fluoranthene	0.233	0.020	"	0.200	0.002	116	70-130			
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	0.002	102	70-130			

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Dan Motisi  
Project Number: [none]  
Project: Facility 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A1602 - EPA 3580**

Matrix Spike (B4A1602-MS1)		Source: Y401200-01			Prepared: 01/16/2024 Analyzed: 01/17/2024					
Benzo (k) fluoranthene	0.224	0.020	mg/kg	0.200	0.003	111	70-130			
Chrysene	0.219	0.020	"	0.200	0.0008	109	70-130			
Dibenz (a,h) anthracene	0.241	0.020	"	0.200	ND	120	70-130			
Fluoranthene	0.237	0.020	"	0.200	0.004	117	70-130			
Fluorene	0.201	0.020	"	0.200	0.018	91.5	70-130			
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	0.001	115	70-130			
Naphthalene	0.217	0.002	"	0.200	0.008	105	70-130			
Phenanthrene	0.249	0.020	"	0.200	0.040	105	70-130			
Pyrene	0.257	0.020	"	0.200	0.003	127	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	240		"	200		121	60-130			

Matrix Spike Dup (B4A1602-MSD1)		Source: Y401200-01			Prepared: 01/16/2024 Analyzed: 01/17/2024					
1-Methylnaphthalene	0.264	0.002	mg/kg	0.200	0.066	98.9	70-130	11.8	20	
2-Methylnaphthalene	0.362	0.002	"	0.200	0.159	102	70-130	1.10	20	
Acenaphthene	0.194	0.020	"	0.200	ND	96.9	70-130	4.25	20	
Anthracene	0.200	0.020	"	0.200	0.004	98.1	70-130	4.60	20	
Benzo (a) anthracene	0.204	0.005	"	0.200	0.003	100	70-130	1.79	20	
Benzo (a) pyrene	0.221	0.020	"	0.200	0.001	110	70-130	2.57	20	
Benzo (b) fluoranthene	0.268	0.020	"	0.200	0.002	133	70-130	13.8	20	QM-07
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	0.002	102	70-130	0.238	20	
Benzo (k) fluoranthene	0.259	0.020	"	0.200	0.003	128	70-130	14.6	20	
Chrysene	0.218	0.020	"	0.200	0.0008	109	70-130	0.567	20	
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	ND	113	70-130	6.22	20	
Fluoranthene	0.212	0.020	"	0.200	0.004	104	70-130	11.2	20	

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Project: Facility 1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A1602 - EPA 3580**

Matrix Spike Dup (B4A1602-MSD1)		Source: Y401200-01			Prepared: 01/16/2024 Analyzed: 01/17/2024					
Fluorene	0.194	0.020	mg/kg	0.200	0.018	87.7	70-130	3.77	20	
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	0.001	101	70-130	13.5	20	
Naphthalene	0.208	0.002	"	0.200	0.008	100	70-130	4.08	20	
Phenanthrene	0.240	0.020	"	0.200	0.040	100	70-130	3.74	20	
Pyrene	0.218	0.020	"	0.200	0.003	108	70-130	16.4	20	
Surrogate: Fluorene-d10	180		ug/kg	200		87.8	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

Origins Laboratory, Inc.



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Project Number: [none]  
Project: Facility 1

## 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 B4A1511 - Saturated Paste Metals

##### Blank (B4A1511-BLK1)

Prepared: 01/15/2024 Analyzed: 01/17/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	1.00	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	1.00	"

##### Duplicate (B4A1511-DUP1)

Source: Y401285-01

Prepared: 01/15/2024 Analyzed: 01/17/2024

Calcium PPM	41.6	10.0	mg/L	45.4	8.81	50
SAR	ND	0.0100	SAR	0.0919		200
Magnesium PPM	5.10	10.0	mg/L	5.41	5.90	50
Sodium PPM	2.56	10.0	"	2.46	3.98	50

#### Batch B4A1608 - DTPA Sorbitol Preparation

##### Blank (B4A1608-BLK1)

Prepared: 01/16/2024 Analyzed: 01/17/2024

Boron	ND	0.100	mg/L
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##### Duplicate (B4A1608-DUP1)

Source: Y401039-01

Prepared: 01/16/2024 Analyzed: 01/17/2024

Boron	0.0355	0.100	mg/L	0.0311	13.4	50
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## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4A1607 - Saturated Paste pH/EC</b>										
<b>Blank (B4A1607-BLK1)</b>					Prepared: 01/16/2024 Analyzed: 01/16/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4A1607-DUP1)</b>					<b>Source: Y401285-01</b> Prepared: 01/16/2024 Analyzed: 01/16/2024					
pH	8.02		pH Units		7.97			0.625	25	
Specific Conductance (EC)	0.303	0.00500	mmhos/cm		0.323			6.42	25	

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Project Number: [none]  
Project: Facility 1

## 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 L729101 -</b>										
<b>DUP (L 83977-DUP)</b>	<b>Source: 83977</b>				Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	ND	0.516	mg/Kg		<0.516	-		0.3	20	
<b>MS (L 83977-MS)</b>	<b>Source: 83977</b>				Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	26.7	2.51	mg/Kg	40.1	< 0.250	67	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	6.18	0.5	mg/Kg	8		77	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Project Number: [none]  
Project: Facility 1

## 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 L728937 -</b>										
<b>DUP (L 83961-DUP)</b>	<b>Source: 83961</b>				Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 83961-MS)</b>	<b>Source: 83961</b>				Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	29.8	2.5	mg/Kg	39	< 0.244	76	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	6.42	0.5	mg/Kg	8		80	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 01/26/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Dan Motisi  
Project Number: [none]  
Project: Facility 1

## Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- \* 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.

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

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