



February 01, 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 17, 2024. This project is associated with Origins project number Y401404-01.

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
KP20@10	Y401404-01	Soil	January 17, 2024 0:00	01/17/2024 16:33
KP20@20	Y401404-02	Soil	January 17, 2024 0:00	01/17/2024 16:33
KP21@20	Y401404-03	Soil	January 17, 2024 0:00	01/17/2024 16:33
KP22@10	Y401404-04	Soil	January 17, 2024 0:00	01/17/2024 16:33
KP23@20	Y401404-05	Soil	January 17, 2024 0:00	01/17/2024 16:33
KP24@18.5	Y401404-06	Soil	January 17, 2024 0:00	01/17/2024 16:33
KP25@20	Y401404-07	Soil	January 17, 2024 0:00	01/17/2024 16:33
KP26@18.5	Y401404-08	Soil	January 17, 2024 0:00	01/17/2024 16:33
KP27@20	Y401404-09	Soil	January 17, 2024 0:00	01/17/2024 16:33

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

www.originslaboratory.com

4401404

page 1 of 1

ORIGINS
LABORATORY, INC

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

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
KP2000	1-17-24		3									1
KP2000			3									2
KP2100			3									3
KP2200			3									4
KP2300			3									5
KP2400			3									6
KP2500			3									7
KP2600			3									8
KP2700			3									9
												10

Relinquished By: [Signature] Date: 1-17-24 Time: 1633

Relinquished By: [Signature] Date: 1-17-24 Time: 1633

Received By: [Signature] Date: 1-17-24 Time: 1633

Received By: [Signature] Date: 1-17-24 Time: 1633

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

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

Origins Laboratory, Inc.

Bynon

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KP Kauffman Co. Inc.
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: Y401404

Client: KPIS

Client Project ID: Fac 1

Checklist Completed by: EHS

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

Date/time completed: 1/18/24

Airbill #: N/A

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

Cooler Number/Temperature: 118 °C °C °C (Describe)

Thermometer ID: TOC1

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/19/24

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

KP20@10

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.383	0.100	mg/L	1	B4A2210	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1823	01/18/2024	01/18/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.3 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1819	01/18/2024	01/18/2024	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	109 %	70-130	"	"	"
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Origins Laboratory, Inc.



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

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

KP20@10

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.5 %	70-130	B4A18 19	01/18/2024	01/18/2024
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.37	0.499	meq/L	10	[CALC]	01/20/2024	01/22/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.96	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1905	01/19/2024	01/22/2024	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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1700 Lincoln St #4550
Denver CO 80203

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

KP20@10

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A1905	01/19/2024	01/22/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	103 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.48	pH Units	1	B4A2007	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	1.91	0.0100	SAR	1	B4A2003	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.461	0.00500	mmhos/cm	1	B4A2007	01/20/2024	01/22/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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1700 Lincoln St #4550
Denver CO 80203

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

KP20@10

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.24	0.0861	mg/kg	10	B4A1827	01/18/2024	01/23/2024
Barium	247	8.61	"	"	"	"	"
Cadmium	0.157	0.0861	"	"	"	"	"
Copper	10.9	8.61	"	"	"	"	"
Lead	10.9	0.861	"	"	"	"	"
Nickel	12.5	0.861	"	"	"	"	"
Selenium	0.133	0.0861	"	"	"	"	"
Silver	ND	0.0861	"	"	"	"	"
Zinc	45.4	8.61	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729468	01/17/2024	01/29/2024
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1700 Lincoln St #4550
Denver CO 80203

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

KP20@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.302	0.0985	mg/L	1	B4A2210	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1823	01/18/2024	01/18/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.6 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1819	01/18/2024	01/18/2024	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	114 %	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

KP20@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.3 %	70-130	B4A18 19	01/18/2024	01/18/2024
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.944	0.499	meq/L	10	[CALC]	01/20/2024	01/22/2024
Magnesium	1.39	0.823	"	"	"	"	"
Sodium	2.00	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1905	01/19/2024	01/22/2024	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

KP20@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A1905	01/19/2024	01/22/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	112 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	114 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.53	pH Units	1	B4A2007	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	1.85	0.0100	SAR	1	B4A2003	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.405	0.00500	mmhos/cm	1	B4A2007	01/20/2024	01/22/2024
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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

KP20@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.98	0.0837	mg/kg	10	B4A1827	01/18/2024	01/23/2024
Barium	128	8.37	"	"	"	"	"
Cadmium	0.177	0.0837	"	"	"	"	"
Copper	ND	8.37	"	"	"	"	"
Lead	9.46	0.837	"	"	"	"	"
Nickel	10.4	0.837	"	"	"	"	"
Selenium	0.130	0.0837	"	"	"	"	"
Silver	ND	0.0837	"	"	"	"	"
Zinc	39.3	8.37	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729470	01/17/2024	01/31/2024
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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

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

KP21@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.293	0.101	mg/L	1	B4A2210	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1823	01/18/2024	01/18/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1819	01/18/2024	01/18/2024	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	116 %	70-130	"	"	"
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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

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

KP21@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.4 %	70-130	B4A18 19	01/18/2024	01/18/2024
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.914	0.499	meq/L	10	[CALC]	01/20/2024	01/22/2024
Magnesium	1.10	0.823	"	"	"	"	"
Sodium	1.93	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1905	01/19/2024	01/22/2024	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.



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

KP21@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-03 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A1905	01/19/2024	01/22/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	110 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.46	pH Units	1	B4A2007	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	1.92	0.0100	SAR	1	B4A2003	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.400	0.00500	mmhos/cm	1	B4A2007	01/20/2024	01/22/2024
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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

KP21@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	12.4	0.0920	mg/kg	10	B4A1828	01/18/2024	01/23/2024
Barium	277	9.20	"	"	"	"	"
Cadmium	0.345	0.0920	"	"	"	"	"
Copper	16.2	9.20	"	"	"	"	"
Lead	16.3	0.920	"	"	"	"	"
Nickel	17.4	0.920	"	"	"	"	"
Selenium	0.622	0.0920	"	"	"	"	"
Silver	ND	0.0920	"	"	"	"	"
Zinc	70.9	9.20	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L729470	01/17/2024	01/31/2024
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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

KP22@10

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.434	0.102	mg/L	1	B4A2210	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1823	01/18/2024	01/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.8 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1819	01/18/2024	01/18/2024	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	109 %	70-130	"	"	"
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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

KP22@10

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.5 %	70-130	B4A18 19	01/18/2024	01/18/2024
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.58	0.499	meq/L	10	[CALC]	01/20/2024	01/22/2024
Magnesium	1.43	0.823	"	"	"	"	"
Sodium	2.28	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1905	01/19/2024	01/22/2024	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

KP22@10

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-04 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A1905	01/19/2024	01/22/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	108 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	123 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.56	pH Units	1	B4A2007	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	1.86	0.0100	SAR	1	B4A2003	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.520	0.00500	mmhos/cm	1	B4A2007	01/20/2024	01/22/2024
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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

KP22@10

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.01	0.0934	mg/kg	10	B4A1828	01/18/2024	01/23/2024
Barium	134	9.34	"	"	"	"	"
Cadmium	0.141	0.0934	"	"	"	"	"
Copper	12.8	9.34	"	"	"	"	"
Lead	11.4	0.934	"	"	"	"	"
Nickel	14.3	0.934	"	"	"	"	"
Selenium	0.161	0.0934	"	"	"	"	"
Silver	ND	0.0934	"	"	"	"	"
Zinc	52.8	9.34	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729470	01/17/2024	01/31/2024
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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

KP23@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.244	0.0989	mg/L	1	B4A2210	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1823	01/18/2024	01/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1819	01/18/2024	01/18/2024	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	105 %	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

KP23@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.3 %	70-130				B4A18 19	01/18/2024	01/18/2024	
Surrogate: 4-Bromofluorobenzene	102 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.30	0.499	meq/L	10	[CALC]	01/20/2024	01/22/2024	
Magnesium	1.40	0.823	"	"	"	"	"	
Sodium	1.91	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1905	01/19/2024	01/22/2024	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

KP23@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-05 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A1905	01/19/2024	01/22/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	105 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	114 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.49	pH Units	1	B4A2007	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	1.64	0.0100	SAR	1	B4A2003	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.468	0.00500	mmhos/cm	1	B4A2007	01/20/2024	01/22/2024
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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

KP23@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.77	0.0895	mg/kg	10	B4A1828	01/18/2024	01/23/2024
Barium	52.4	8.95	"	"	"	"	"
Cadmium	0.105	0.0895	"	"	"	"	"
Copper	ND	8.95	"	"	"	"	"
Lead	9.98	0.895	"	"	"	"	"
Nickel	11.2	0.895	"	"	"	"	"
Selenium	0.120	0.0895	"	"	"	"	"
Silver	ND	0.0895	"	"	"	"	"
Zinc	40.4	8.95	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729470	01/17/2024	01/31/2024
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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

KP24@18.5

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.252	0.0996	mg/L	1	B4A2210	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A1823	01/18/2024	01/19/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.8 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1819	01/18/2024	01/18/2024	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.



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

KP24@18.5

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.7 %	70-130	B4A18 19	01/18/2024	01/18/2024
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.894	0.499	meq/L	10	[CALC]	01/20/2024	01/22/2024
Magnesium	1.19	0.823	"	"	"	"	"
Sodium	1.43	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1905	01/19/2024	01/22/2024	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.



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

KP24@18.5

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-06 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4A1905	01/19/2024	01/22/2024	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	105 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.47	pH Units	1	B4A2007	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	1.40	0.0100	SAR	1	B4A2003	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.361	0.00500	mmhos/cm	1	B4A2007	01/20/2024	01/22/2024
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Table 915 metals by EPA 6020B

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

KP24@18.5

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.78	0.0897	mg/kg	10	B4A1828	01/18/2024	01/23/2024
Barium	116	8.97	"	"	"	"	"
Cadmium	0.180	0.0897	"	"	"	"	"
Copper	11.0	8.97	"	"	"	"	"
Lead	11.8	0.897	"	"	"	"	"
Nickel	13.6	0.897	"	"	"	"	"
Selenium	0.202	0.0897	"	"	"	"	"
Silver	ND	0.0897	"	"	"	"	"
Zinc	47.8	8.97	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729470	01/17/2024	01/31/2024
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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

KP25@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.333	0.0995	mg/L	1	B4A2210	01/22/2024	01/23/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	500	25.0	mg/kg	1	B4A1823	01/18/2024	01/19/2024
Residual Range Organics (C28-C40)	331	100	"	"	"	"	"

Surrogate: o-Terphenyl	105 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1819	01/18/2024	01/18/2024	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	0.00250	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	7.85	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	97.0 %	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

KP25@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 108 % 70-130 B4A18 19 01/18/2024 01/18/2024

Metals by Saturated Paste by EPA 6010

Calcium	3.16	0.499	meq/L	10	[CALC]	01/20/2024	01/22/2024
Magnesium	3.27	0.823	"	"	"	"	"
Sodium	2.04	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.006	0.002	mg/kg	1	B4A1905	01/19/2024	01/23/2024
2-Methylnaphthalene	0.016	0.002	"	"	"	"	"
Acenaphthene	0.035	0.020	"	"	"	"	"
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	0.046	0.020	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	" U
Fluoranthene	ND	0.020	"	"	"	"	" U
Fluorene	0.322	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

KP25@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-07 (Soil)

PAH by EPA 8270E

Naphthalene	0.009	0.002	mg/kg	1	B4A1905	01/19/2024	01/23/2024
Pyrene	0.027	0.020	"	"	"	"	"

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	111 %	60-130	"	"	"
Surrogate: Pyrene-d10	81.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.47	pH Units	1	B4A2007	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	1.14	0.0100	SAR	1	B4A2003	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.868	0.00500	mmhos/cm	1	B4A2007	01/20/2024	01/22/2024
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Table 915 metals by EPA 6020B

Arsenic	21.4	0.0956	mg/kg	10	B4A1828	01/18/2024	01/23/2024
Barium	154	9.56	"	"	"	"	"
Cadmium	0.627	0.0956	"	"	"	"	"

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

KP25@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-07 (Soil)

Table 915 metals by EPA 6020B

Copper	31.8	9.56	mg/kg	10	B4A1828	01/18/2024	01/23/2024
Lead	28.5	0.956	"	"	"	"	"
Nickel	40.3	0.956	"	"	"	"	"
Selenium	1.66	0.0956	"	"	"	"	"
Silver	ND	0.0956	"	"	"	"	"
Zinc	181	9.56	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L729470	01/17/2024	01/31/2024
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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

KP26@18.5

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.319	0.0984	mg/L	1	B4A2210	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	34.1	25.0	mg/kg	1	B4A1823	01/18/2024	01/19/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.3 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1819	01/18/2024	01/18/2024	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	106 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

KP26@18.5

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	105 %	70-130	B4A18 19	01/18/2024	01/18/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.98	0.499	meq/L	10	[CALC]	01/20/2024	01/22/2024
Magnesium	2.78	0.823	"	"	"	"	"
Sodium	2.08	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1905	01/19/2024	01/23/2024	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	0.025	0.020	"	"	"	"	"	
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

KP26@18.5

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-08 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4A1905	01/19/2024	01/23/2024	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	106 %	60-130	"	"	"
Surrogate: Pyrene-d10	90.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.8 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.57	pH Units	1	B4A2007	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	1.35	0.0100	SAR	1	B4A2003	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.729	0.00500	mmhos/cm	1	B4A2007	01/20/2024	01/22/2024
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Table 915 metals by EPA 6020B

Arsenic	9.08	0.0865	mg/kg	10	B4A1828	01/18/2024	01/23/2024
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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

KP26@18.5

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-08 (Soil)

Table 915 metals by EPA 6020B

Barium	166	8.65	mg/kg	10	B4A1828	01/18/2024	01/23/2024
Cadmium	0.533	0.0865	"	"	"	"	"
Copper	15.3	8.65	"	"	"	"	"
Lead	16.3	0.865	"	"	"	"	"
Nickel	20.3	0.865	"	"	"	"	"
Selenium	0.529	0.0865	"	"	"	"	"
Silver	ND	0.0865	"	"	"	"	"
Zinc	76.6	8.65	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L729470	01/17/2024	01/31/2024
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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

KP27@20
1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.278	0.0993	mg/L	1	B4A2210	01/22/2024	01/23/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	111	25.0	mg/kg	1	B4A1823	01/18/2024	01/19/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.9 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A1819	01/18/2024	01/18/2024	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	5.74	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	98.9 %	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

KP27@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 104 % 70-130 B4A18 19 01/18/2024 01/18/2024

Metals by Saturated Paste by EPA 6010

Calcium	2.92	0.499	meq/L	10	[CALC]	01/20/2024	01/22/2024
Magnesium	2.39	0.823	"	"	"	"	"
Sodium	1.90	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.004	0.002	mg/kg	1	B4A1905	01/19/2024	01/23/2024
2-Methylnaphthalene	0.004	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	" U
Anthracene	0.032	0.020	"	"	"	"	"
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	0.026	0.020	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	" U
Fluoranthene	ND	0.020	"	"	"	"	" U
Fluorene	0.055	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

KP27@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-09 (Soil)

PAH by EPA 8270E

Naphthalene	ND	0.002	mg/kg	1	B4A1905	01/19/2024	01/23/2024	U
Pyrene	0.026	0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	109 %	60-130	"	"	"
Surrogate: Pyrene-d10	86.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.7 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.21	pH Units	1	B4A2007	01/20/2024	01/22/2024
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SAR by 20B Saturated Paste

SAR	1.16	0.0100	SAR	1	B4A2003	01/20/2024	01/22/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.796	0.00500	mmhos/cm	1	B4A2007	01/20/2024	01/22/2024
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Table 915 metals by EPA 6020B

Arsenic	20.9	0.0932	mg/kg	10	B4A1828	01/18/2024	01/23/2024
Barium	195	9.32	"	"	"	"	"

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

KP27@20

1/17/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401404-09 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.630	0.0932	mg/kg	10	B4A1828	01/18/2024	01/23/2024
Copper	22.1	9.32	"	"	"	"	"
Lead	27.3	0.932	"	"	"	"	"
Nickel	31.4	0.932	"	"	"	"	"
Selenium	0.794	0.0932	"	"	"	"	"
Silver	ND	0.0932	"	"	"	"	"
Zinc	100	9.32	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L729470	01/17/2024	01/31/2024
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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

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 B4A1819 - EPA 5030 (soil)										
Blank (B4A1819-BLK1)					Prepared: 01/18/2024 Analyzed: 01/18/2024					
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		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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

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 B4A1819 - EPA 5030 (soil)										
LCS (B4A1819-BS1)					Prepared: 01/18/2024 Analyzed: 01/18/2024					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.114	0.00200	"	0.100		114	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.120	0.00380	"	0.100		120	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.227	0.00400	"	0.200		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	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
Batch B4A1819 - EPA 5030 (soil)										
Matrix Spike (B4A1819-MS1)		Source: Y401404-01			Prepared: 01/18/2024 Analyzed: 01/18/2024					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.108	0.00200	"	0.100	ND	108	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.109	0.00380	"	0.100	ND	109	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.0988	0.00200	"	0.100	ND	98.8	70-130			
m,p-Xylene	0.207	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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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 B4A1819 - EPA 5030 (soil)										
Matrix Spike Dup (B4A1819-MSD1)			Source: Y401404-01		Prepared: 01/18/2024 Analyzed: 01/18/2024					
1,2,4-Trimethylbenzene	0.0776	0.00200	mg/kg	0.100	ND	77.6	70-130	26.7	20	QR-02
1,3,5-Trimethylbenzene	0.0770	0.00200	"	0.100	ND	77.0	70-130	27.7	20	QR-02
Benzene	0.0841	0.00200	"	0.100	ND	84.1	70-130	25.0	20	QR-02
Ethylbenzene	0.0770	0.00200	"	0.100	ND	77.0	70-130	27.2	20	QR-02
Naphthalene	0.0853	0.00380	"	0.100	ND	85.3	70-130	24.7	20	QR-02
Toluene	0.0787	0.00200	"	0.100	ND	78.7	70-130	28.0	20	QR-02
o-Xylene	0.0748	0.00200	"	0.100	ND	74.8	70-130	27.7	20	QR-02
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.4	70-130	26.3	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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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 B4A1823 - EPA 3550B										
Blank (B4A1823-BLK1)					Prepared: 01/18/2024 Analyzed: 01/18/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		99.3	50-150			

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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 B4A1823 - EPA 3550B

LCS (B4A1823-BS1)

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

Diesel (C10-C28)	884	50.0	mg/kg	1000		88.4	70-130			
Residual Range Organics (C28-C40)	781	200	"	1000		78.1	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

Origins Laboratory, Inc.



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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 B4A1823 - EPA 3550B

Matrix Spike (B4A1823-MS1)		Source: Y401370-01			Prepared: 01/18/2024 Analyzed: 01/18/2024					
Diesel (C10-C28)	868	50.0	mg/kg	1000	ND	86.8	70-130			
Residual Range Organics (C28-C40)	758	200	"	1000	ND	75.8	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.8	50-150			

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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
Batch B4A1823 - EPA 3550B										
Matrix Spike Dup (B4A1823-MSD1)			Source: Y401370-01			Prepared: 01/18/2024 Analyzed: 01/18/2024				
Diesel (C10-C28)	867	50.0	mg/kg	1000	ND	86.7	70-130	0.0848	35	
Residual Range Organics (C28-C40)	754	200	"	1000	ND	75.4	70-130	0.455	35	
Surrogate: o-Terphenyl	47		"	49.8		95.4	50-150			

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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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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 B4A1827 - EPA 3050B

Blank (B4A1827-BLK1)

Prepared: 01/18/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg
Barium	ND	1.00	"
Selenium	ND	0.0100	"

LCS (B4A1827-BS1)

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	4.70	0.0100	mg/kg	5.00		93.9	80-120
Barium	459	1.00	"	500		91.8	80-120
Selenium	4.40	0.0100	"	5.00		88.0	80-120

Matrix Spike (B4A1827-MS1)

Source: Y401391-57

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	6.86	0.0978	mg/kg	4.89	2.81	83.0	75-125
Barium	431	9.78	"	489	14.0	85.3	75-125
Selenium	4.63	0.0978	"	4.89	0.225	90.1	75-125

Matrix Spike Dup (B4A1827-MSD1)

Source: Y401391-57

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	6.49	0.0931	mg/kg	4.66	2.81	79.1	75-125	5.62	20
Barium	407	9.31	"	466	14.0	84.4	75-125	5.81	20
Selenium	4.23	0.0931	"	4.66	0.225	86.0	75-125	9.00	20

Batch B4A1828 - EPA 3050B

Blank (B4A1828-BLK1)

Prepared: 01/18/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg
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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 B4A1828 - EPA 3050B

Blank (B4A1828-BLK1)

Prepared: 01/18/2024 Analyzed: 01/23/2024

Barium	ND	1.00	mg/kg
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 (B4A1828-BS1)

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	4.66	0.0100	mg/kg	5.00	93.1	80-120
Barium	455	1.00	"	500	90.9	80-120
Cadmium	4.88	0.0100	"	5.00	97.7	80-120
Copper	50.1	1.00	"	50.0	100	80-120
Lead	5.21	0.100	"	5.00	104	80-120
Nickel	4.98	0.100	"	5.00	99.5	80-120
Selenium	4.72	0.0100	"	5.00	94.4	80-120
Silver	4.93	0.0100	"	5.00	98.7	80-120
Zinc	49.7	1.00	"	50.0	99.4	80-120

Matrix Spike (B4A1828-MS1)

Source: Y401404-03

Prepared: 01/18/2024 Analyzed: 01/23/2024

Arsenic	10.0	0.0903	mg/kg	4.51	12.4	NR	75-125	QM-07
Barium	460	9.03	"	451	277	40.7	75-125	QM-07
Cadmium	4.58	0.0903	"	4.51	0.345	93.9	75-125	
Copper	51.4	9.03	"	45.1	16.2	77.9	75-125	
Lead	17.5	0.903	"	4.51	16.3	26.3	75-125	QM-07
Nickel	17.4	0.903	"	4.51	17.4	0.0106	75-125	QM-07

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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
Batch B4A1828 - EPA 3050B										
Matrix Spike (B4A1828-MS1)		Source: Y401404-03			Prepared: 01/18/2024 Analyzed: 01/23/2024					
Selenium	4.58	0.0903	mg/kg	4.51	0.622	87.6	75-125			
Silver	3.71	0.0903	"	4.51	0.0110	82.0	75-125			
Zinc	92.0	9.03	"	45.1	70.9	46.6	75-125			QM-07
Matrix Spike Dup (B4A1828-MSD1)		Source: Y401404-03			Prepared: 01/18/2024 Analyzed: 01/23/2024					
Arsenic	9.73	0.0973	mg/kg	4.87	12.4	NR	75-125	2.98	20	QM-07
Barium	525	9.73	"	487	277	51.0	75-125	13.2	20	QM-07
Cadmium	4.86	0.0973	"	4.87	0.345	92.7	75-125	5.86	20	
Copper	54.8	9.73	"	48.7	16.2	79.3	75-125	6.46	20	
Lead	16.9	0.973	"	4.87	16.3	12.6	75-125	3.31	20	QM-07
Nickel	16.8	0.973	"	4.87	17.4	NR	75-125	3.23	20	QM-07
Selenium	4.46	0.0973	"	4.87	0.622	79.0	75-125	2.50	20	
Silver	4.07	0.0973	"	4.87	0.0110	83.3	75-125	9.15	20	
Zinc	93.8	9.73	"	48.7	70.9	47.0	75-125	1.97	20	QM-07

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1700 Lincoln St #4550
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 B4A1905 - EPA 3580

Blank (B4A1905-BLK1)

Prepared: 01/19/2024 Analyzed: 01/22/2024

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	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

LCS (B4A1905-BS1)

Prepared: 01/19/2024 Analyzed: 01/22/2024

1-Methylnaphthalene	0.171	0.002	mg/kg	0.200		85.4	70-130
2-Methylnaphthalene	0.171	0.002	"	0.200		85.6	70-130
Acenaphthene	0.173	0.020	"	0.200		86.7	70-130
Anthracene	0.162	0.020	"	0.200		81.2	70-130

Origins Laboratory, Inc.



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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 B4A1905 - EPA 3580

LCS (B4A1905-BS1)

Prepared: 01/19/2024 Analyzed: 01/22/2024

Benzo (a) anthracene	0.172	0.005	mg/kg	0.200		86.1	70-130
Benzo (a) pyrene	0.184	0.020	"	0.200		91.9	70-130
Benzo (b) fluoranthene	0.172	0.020	"	0.200		86.2	70-130
Benzo (g,h,i) perylene	0.170	0.020	"	0.200		85.1	70-130
Benzo (k) fluoranthene	0.164	0.020	"	0.200		81.9	70-130
Chrysene	0.188	0.020	"	0.200		94.0	70-130
Dibenz (a,h) anthracene	0.184	0.020	"	0.200		92.2	70-130
Fluoranthene	0.174	0.020	"	0.200		87.0	70-130
Fluorene	0.171	0.020	"	0.200		85.5	70-130
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200		91.4	70-130
Naphthalene	0.177	0.002	"	0.200		88.5	70-130
Phenanthrene	0.182	0.020	"	0.200		91.1	70-130
Pyrene	0.172	0.020	"	0.200		86.0	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	200		"	200		102	60-130
Surrogate: Pyrene-d10	210		"	200		103	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130

Matrix Spike (B4A1905-MS1)

Source: Y401393-01

Prepared: 01/19/2024 Analyzed: 01/22/2024

1-Methylnaphthalene	0.182	0.002	mg/kg	0.200	0.005	88.5	70-130
2-Methylnaphthalene	0.189	0.002	"	0.200	0.007	90.9	70-130
Acenaphthene	0.178	0.020	"	0.200	0.002	88.1	70-130
Anthracene	0.177	0.020	"	0.200	0.0008	87.9	70-130
Benzo (a) anthracene	0.168	0.005	"	0.200	0.003	82.4	70-130
Benzo (a) pyrene	0.199	0.020	"	0.200	ND	99.5	70-130
Benzo (b) fluoranthene	0.178	0.020	"	0.200	0.0007	88.5	70-130
Benzo (g,h,i) perylene	0.150	0.020	"	0.200	0.001	74.6	70-130

Origins Laboratory, Inc.



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1700 Lincoln St #4550
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 B4A1905 - EPA 3580

Matrix Spike (B4A1905-MS1)		Source: Y401393-01			Prepared: 01/19/2024 Analyzed: 01/22/2024					
Benzo (k) fluoranthene	0.182	0.020	mg/kg	0.200	0.001	90.6	70-130			
Chrysene	0.199	0.020	"	0.200	ND	99.6	70-130			
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130			
Fluoranthene	0.165	0.020	"	0.200	0.0008	82.0	70-130			
Fluorene	0.177	0.020	"	0.200	0.002	87.2	70-130			
Indeno (1,2,3-cd) pyrene	0.162	0.020	"	0.200	ND	80.9	70-130			
Naphthalene	0.181	0.002	"	0.200	0.0009	90.0	70-130			
Phenanthrene	0.194	0.020	"	0.200	0.004	95.0	70-130			
Pyrene	0.150	0.020	"	0.200	0.0006	74.9	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.8	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	170		"	200		87.3	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

Matrix Spike Dup (B4A1905-MSD1)		Source: Y401393-01			Prepared: 01/19/2024 Analyzed: 01/22/2024					
1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.005	93.9	70-130	5.81	20	
2-Methylnaphthalene	0.195	0.002	"	0.200	0.007	94.0	70-130	3.18	20	
Acenaphthene	0.175	0.020	"	0.200	0.002	86.7	70-130	1.53	20	
Anthracene	0.189	0.020	"	0.200	0.0008	94.3	70-130	7.00	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	0.003	93.2	70-130	12.1	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	ND	103	70-130	3.70	20	
Benzo (b) fluoranthene	0.192	0.020	"	0.200	0.0007	95.9	70-130	8.00	20	
Benzo (g,h,i) perylene	0.163	0.020	"	0.200	0.001	81.0	70-130	8.16	20	
Benzo (k) fluoranthene	0.188	0.020	"	0.200	0.001	93.3	70-130	2.84	20	
Chrysene	0.215	0.020	"	0.200	ND	108	70-130	7.84	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130	6.79	20	
Fluoranthene	0.172	0.020	"	0.200	0.0008	85.9	70-130	4.61	20	

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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 B4A1905 - EPA 3580

Matrix Spike Dup (B4A1905-MSD1)		Source: Y401393-01			Prepared: 01/19/2024 Analyzed: 01/22/2024					
Fluorene	0.185	0.020	mg/kg	0.200	0.002	91.3	70-130	4.47	20	
Indeno (1,2,3-cd) pyrene	0.174	0.020	"	0.200	ND	86.8	70-130	6.97	20	
Naphthalene	0.182	0.002	"	0.200	0.0009	90.3	70-130	0.368	20	
Phenanthrene	0.191	0.020	"	0.200	0.004	93.8	70-130	1.18	20	
Pyrene	0.169	0.020	"	0.200	0.0006	84.2	70-130	11.7	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	240		"	200		118	60-130			

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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 B4A2003 - Saturated Paste Metals

Blank (B4A2003-BLK1)

Prepared: 01/20/2024 Analyzed: 01/22/2024

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

Duplicate (B4A2003-DUP1)

Source: Y401404-01

Prepared: 01/20/2024 Analyzed: 01/22/2024

SAR	ND	0.0100	SAR	1.91			200
Calcium PPM	25.7	10.0	mg/L	27.4		6.40	50
Magnesium PPM	8.88	10.0	"	8.94		0.673	50
Sodium PPM	48.4	10.0	"	45.1		7.02	50

Batch B4A2210 - DTPA Sorbitol Preparation

Blank (B4A2210-BLK1)

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	ND	0.100	mg/L
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Duplicate (B4A2210-DUP1)

Source: Y401404-01

Prepared: 01/22/2024 Analyzed: 01/23/2024

Boron	0.370	0.0990	mg/L	0.383		3.63	50
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Project: Facility 1

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2007 - Saturated Paste pH/EC										
Blank (B4A2007-BLK1)					Prepared: 01/20/2024 Analyzed: 01/22/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A2007-DUP1)					Source: Y401404-01 Prepared: 01/20/2024 Analyzed: 01/22/2024					
Specific Conductance (EC)	0.458	0.00500	mmhos/cm		0.461			0.697	25	
pH	8.47		pH Units		8.48			0.118	25	

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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
Batch L729470 -										
DUP (L 90253-DUP)	Source: 90253				Prepared: Analyzed: 01/31/2024					
Chromium, Hexavalent	ND	0.517	mg/Kg		<0.517	-		1.5	20	
MS (L 90253-MS)	Source: 90253				Prepared: Analyzed: 01/31/2024					
Chromium, Hexavalent	33.4	2.52	mg/Kg	40.4	< 0.248	83	75-125			
LCS (LCS)					Prepared: Analyzed: 01/31/2024					
Chromium, Hexavalent	6.71	0.5	mg/Kg	8		84	75-125			
LRB (LRB)					Prepared: Analyzed: 01/31/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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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
Batch L729468 -										
DUP (L 90236-DUP)	Source: 90236				Prepared: Analyzed: 01/29/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 90236-MS)	Source: 90236				Prepared: Analyzed: 01/29/2024					
Chromium, Hexavalent	30.3	2.5	mg/Kg	38.9	< 0.244	78	75-125			
LCS (LCS)					Prepared: Analyzed: 01/29/2024					
Chromium, Hexavalent	6.13	0.5	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared: Analyzed: 01/29/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Project: Facility 1

Notes and Definitions

U Sample is Non-Detect.

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.

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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