

January 05, 2023

KP Kauffman Co. Inc.

Levi Kirk

1700 Lincoln St #4550

Denver CO 80203

**Project Name - Koch Tank Battery**

**Project Number - [none]**

Attached are your analytical results for Koch Tank Battery received by Origins Laboratory, Inc. December 20, 2022. This project is associated with Origins project number Y212459-01.

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

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

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

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

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

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



KP Kauffman Co. Inc.

1700 Lincoln St #4550

Denver CO 80203

Levi Kirk

Project Number: [none]

Project: Koch Tank Battery

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-7@4'	Y212459-01	Soil	December 20, 2022 10:00	12/20/2022 11:38
SW-8@4'	Y212459-02	Soil	December 20, 2022 10:05	12/20/2022 11:38
SW-9@4'	Y212459-03	Soil	December 20, 2022 10:10	12/20/2022 11:38
SW-10@4'	Y212459-04	Soil	December 20, 2022 10:15	12/20/2022 11:38
SW-11@4'	Y212459-05	Soil	December 20, 2022 10:20	12/20/2022 11:38
SW-12@4'	Y212459-06	Soil	December 20, 2022 10:25	12/20/2022 11:38
SW-13@4'	Y212459-07	Soil	December 20, 2022 10:30	12/20/2022 11:38
SW-14@4'	Y212459-08	Soil	December 20, 2022 10:35	12/20/2022 11:38
SW-15@4'	Y212459-09	Soil	December 20, 2022 10:40	12/20/2022 11:38
SW-16@4'	Y212459-10	Soil	December 20, 2022 10:45	12/20/2022 11:38
BH-2@6'	Y212459-11	Soil	December 20, 2022 10:50	12/20/2022 11:38
BH-3@6'	Y212459-12	Soil	December 20, 2022 10:55	12/20/2022 11:38
BH-4@6'	Y212459-13	Soil	December 20, 2022 11:00	12/20/2022 11:38
BH-5@6'	Y212459-14	Soil	December 20, 2022 11:05	12/20/2022 11:38

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.

1700 Lincoln St #4550

Denver CO 80203

Levi Kirk

Project Number: [none]

Project: Koch Tank Battery

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

4212459

page 1 of 2

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

Project Manager: Levi Kirk  
Project Name: Koch Tank Battery  
Project Number: N/A  
Samples Collected By: Chris Piccione

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa			Other
SW-7 @ 4'	12-20-22	1000	2										1
SW-8 @ 4'		1005											2
SW-9 @ 4'		1010											3
SW-10 @ 4'		1015											4
SW-11 @ 4'		1020											5
SW-12 @ 4'		1025											6
SW-13 @ 4'		1030											7
SW-14 @ 4'		1035											8
SW-15 @ 4'		1040											9
SW-16 @ 4'		1045											10
Relinquished By: <i>[Signature]</i>	Date: 12-20-22	Time: 1138	Received By: DE	Date: 12-20-22	Time: 1138	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								

Date Results Needed

9.3

Origins Laboratory, Inc.

*[Signature]*

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Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

4212459

page 2 of 2

Client: K. P. Kauffman

Address: 1675 Broadway Denver, CO 80202

Telephone Number: 303.825.4822

Email Address: PrimaryContractor@marcomllc.net

Project Manager: Levi Kirk

Project Name: Koch Tank Battery

Project Number: N/A


Samples Collected By: Chris Piccione

1725 Elk Place

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other		
BH-2 06'	12-20-22	1050	2									Full Table 915	1
BH-3 06'		1055	1										2
BH-4 06'		1100	1										3
BH-5 06'		1105	1										4
													5
													6
													7
													8
													9
													10
Relinquished By: 	Date: 12-20-22	Time: 1138		Received By: DE					Date: 12/10/22			Time: 1138	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished By:	Date:	Time:		Received By:					Date:			Time:	

Date Results Needed:

Origins Laboratory, Inc.

Byron

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KP Kauffman Co. Inc.

1700 Lincoln St #4550

Denver CO 80203

Levi Kirk

Project Number: [none]

Project: Koch Tank Battery

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: 4212459

Client: KP Kauffman

Client Project ID: Koch TB

Checklist Completed by: ETHS

Shipped Via: HID

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

Date/time completed: 12/20/22

Airbill #: NA

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

Cooler Number/Temperature: 1193 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: TO 01

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 checked="" type="checkbox"/>		same day
Is there ice present (document if blue ice is used)	<input checked="" 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 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"/>	<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" 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 checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" 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"/>		
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" 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"/>		
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 checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 12/21/22

Origins Laboratory, Inc.

*J. Bynon*

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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-7@4'

12/20/2022 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.122	0.0997	mg/L	1	B2L2107	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.0 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-7@4'

12/20/2022 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.2 %	70-130				B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	89.8 %	70-130				"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	0.982	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.679	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0101	mg/Kg	5	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.0101	"	"	"	"	"
Acenaphthene	ND	0.00335	"	"	"	"	"
Anthracene	ND	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00335	"	"	"	"	"
Chrysene	ND	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00335	"	"	"	"	"

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Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-7@4'

12/20/2022 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
Y212459-01 (Soil)

**PAH by 8270D SIM**

Fluorene	ND	0.00335	mg/Kg	5	L655233	12/21/2022	12/22/2022
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"	"	"
Naphthalene	ND	0.0101	"	"	"	"	"
Pyrene	ND	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	78.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.3 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.11	pH Units	1	B2L2116	12/21/2022	12/22/2022
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**SAR by 20B Saturated Paste**

SAR	0.852	SAR	1	B2L2105	12/21/2022	12/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.226	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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**Table 915 metals by EPA 6020B**

Arsenic	1.93	0.0879	mg/kg	10	B2L2102	12/21/2022	12/23/2022
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Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-7@4'

12/20/2022 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-01 (Soil)

## Table 915 metals by EPA 6020B

Barium	46.4	8.79	mg/kg	10	B2L2102	12/21/2022	12/23/2022
Cadmium	ND	0.0879	"	"	"	"	"
Copper	ND	8.79	"	"	"	"	"
Lead	ND	8.79	"	"	"	"	"
Nickel	ND	8.79	"	"	"	"	"
Selenium	0.151	0.0879	"	"	"	"	"
Silver	ND	0.0879	"	"	"	"	"
Zinc	ND	87.9	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	1	mg/Kg	2	L655603	12/20/2022	12/23/2022
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KP Kauffman Co. Inc.  
1700 Lincoln St #4550  
Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-8@4'

12/20/2022 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.22	0.0999	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.9 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-8@4'

12/20/2022 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	92.9 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	88.9 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	0.792	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	2.43	0.823	"	"	"	"	"
Sodium	5.21	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.00201	"	"	"	"	"
Acenaphthene	ND	0.00067	"	"	"	"	"
Anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"	"	"
Chrysene	ND	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-8@4'

12/20/2022 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
Y212459-02 (Soil)

**PAH by 8270D SIM**

Fluorene	ND	0.00067	mg/Kg	1	L655233	12/21/2022	12/22/2022
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"	"	"
Naphthalene	ND	0.00201	"	"	"	"	"
Pyrene	ND	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	45.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	53.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	46.7 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.56	pH Units	1	B2L2116	12/21/2022	12/22/2022
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**SAR by 20B Saturated Paste**

SAR	4.10	SAR	1	B2L2105	12/21/2022	12/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.965	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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**Table 915 metals by EPA 6020B**

Arsenic	3.95	0.0968	mg/kg	10	B2L2102	12/21/2022	12/23/2022
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KP Kauffman Co. Inc.  
1700 Lincoln St #4550  
Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-8@4'

12/20/2022 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-02 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	104	9.68	mg/kg	10	B2L2102	12/21/2022	12/23/2022
Cadmium	0.216	0.0968	"	"	"	"	"
Copper	11.0	9.68	"	"	"	"	"
Lead	12.2	9.68	"	"	"	"	"
Nickel	12.4	9.68	"	"	"	"	"
Selenium	0.307	0.0968	"	"	"	"	"
Silver	ND	0.0968	"	"	"	"	"
Zinc	ND	96.8	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	1	mg/Kg	2	L655603	12/20/2022	12/23/2022
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KP Kauffman Co. Inc.  
1700 Lincoln St #4550  
Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-9@4'

12/20/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.999	mg/L	10	B2L2108	12/21/2022	01/03/2023
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.8 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-9@4'

12/20/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.5 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	89.1 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	1.55	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	2.04	0.823	"	"	"	"	"
Sodium	2.77	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.00201	"	"	"	"	"
Acenaphthene	ND	0.00067	"	"	"	"	"
Anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"	"	"
Chrysene	ND	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-9@4'

12/20/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y212459-03 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.00067	mg/Kg	1	L655233	12/21/2022	12/22/2022
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"	"	"
Naphthalene	ND	0.00201	"	"	"	"	"
Pyrene	ND	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	47.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	53.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.9 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.37	pH Units	1	B2L2116	12/21/2022	12/22/2022
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**SAR by 20B Saturated Paste**

SAR	2.07	SAR	1	B2L2105	12/21/2022	12/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.665	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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**Table 915 metals by EPA 6020B**

Arsenic	3.93	0.0915	mg/kg	10	B2L2102	12/21/2022	12/23/2022
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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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-9@4'

12/20/2022 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-03 (Soil)

## Table 915 metals by EPA 6020B

Barium	108	9.15	mg/kg	10	B2L2102	12/21/2022	12/23/2022
Cadmium	0.129	0.0915	"	"	"	"	"
Copper	10.7	9.15	"	"	"	"	"
Lead	9.17	9.15	"	"	"	"	"
Nickel	12.0	9.15	"	"	"	"	"
Selenium	0.162	0.0915	"	"	"	"	"
Silver	ND	0.0915	"	"	"	"	"
Zinc	ND	91.5	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L655603	12/20/2022	12/23/2022
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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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-10@4'

12/20/2022 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.448	0.0996	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	64.6 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-10@4'

12/20/2022 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-04 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.1 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	89.3 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	0.951	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	1.45	0.823	"	"	"	"	"
Sodium	2.18	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.00201	"	"	"	"	"
Acenaphthene	ND	0.00067	"	"	"	"	"
Anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000755	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"	"	"
Chrysene	ND	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-10@4'

12/20/2022 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y212459-04 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.00067	mg/Kg	1	L655233	12/21/2022	12/22/2022
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"	"	"
Naphthalene	ND	0.00201	"	"	"	"	"
Pyrene	ND	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.39	pH Units	1	B2L2116	12/21/2022	12/22/2022
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## SAR by 20B Saturated Paste

SAR	1.99	SAR	1	B2L2105	12/21/2022	12/27/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.639	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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## Table 915 metals by EPA 6020B

Arsenic	3.62	0.0920	mg/kg	10	B2L2102	12/21/2022	12/23/2022
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-10@4'

12/20/2022 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-04 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	97.0	9.20	mg/kg	10	B2L2102	12/21/2022	12/23/2022
Cadmium	0.188	0.0920	"	"	"	"	"
Copper	10.7	9.20	"	"	"	"	"
Lead	10.1	9.20	"	"	"	"	"
Nickel	11.6	9.20	"	"	"	"	"
Selenium	0.232	0.0920	"	"	"	"	"
Silver	ND	0.0920	"	"	"	"	"
Zinc	ND	92.0	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	2.55	mg/Kg	5	L655603	12/20/2022	12/23/2022
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-11@4'

12/20/2022 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.771	0.101	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	65.8 %	50-150			"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-11@4'

12/20/2022 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-05 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.3 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	0.901	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	1.28	0.823	"	"	"	"	"
Sodium	16.1	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0101	mg/Kg	5	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.0101	"	"	"	"	"
Acenaphthene	ND	0.00335	"	"	"	"	"
Anthracene	ND	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00335	"	"	"	"	"
Chrysene	ND	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00335	"	"	"	"	"

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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-11@4'

12/20/2022 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y212459-05 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.00335	mg/Kg	5	L655233	12/21/2022	12/22/2022
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"	"	"
Naphthalene	ND	0.0101	"	"	"	"	"
Pyrene	ND	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	47.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43.4 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.60	pH Units	1	B2L2116	12/21/2022	12/22/2022
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**SAR by 20B Saturated Paste**

SAR	15.5	SAR	1	B2L2105	12/21/2022	12/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.98	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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**Table 915 metals by EPA 6020B**

Arsenic	2.54	0.0966	mg/kg	10	B2L2102	12/21/2022	12/23/2022
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-11@4'

12/20/2022 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-05 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	67.4	9.66	mg/kg	10	B2L2102	12/21/2022	12/23/2022
Cadmium	0.103	0.0966	"	"	"	"	"
Copper	ND	9.66	"	"	"	"	"
Lead	ND	9.66	"	"	"	"	"
Nickel	ND	9.66	"	"	"	"	"
Selenium	0.105	0.0966	"	"	"	"	"
Silver	ND	0.0966	"	"	"	"	"
Zinc	ND	96.6	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	2.5	mg/Kg	5	L655603	12/20/2022	12/23/2022
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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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-12@4'

12/20/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.588	0.101	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.2 %	50-150			"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## SW-12@4'

12/20/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y212459-06 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.6 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	88.8 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	1.75	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	1.47	0.823	"	"	"	"	"
Sodium	2.12	0.435	"	"	"	"	"

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.00201	"	"	"	"	"
Acenaphthene	ND	0.00067	"	"	"	"	"
Anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.000588	0.00067	"	"	"	"	" J
Benzo(a)pyrene	0.00131	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00236	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"	"	"
Chrysene	0.00106	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00067	"	"	"	"	"
Fluorene	ND	0.00067	"	"	"	"	"

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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-12@4'

12/20/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y212459-06 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	0.00277	0.00067	mg/Kg	1	L655233	12/21/2022	12/22/2022
Naphthalene	ND	0.00201	"	"	"	"	"
Pyrene	0.00168	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	44.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	53.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48.9 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.33	pH Units	1	B2L2116	12/21/2022	12/22/2022
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**SAR by 20B Saturated Paste**

SAR	1.67	SAR	1	B2L2105	12/21/2022	12/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.635	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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**Table 915 metals by EPA 6020B**

Arsenic	4.29	0.0978	mg/kg	10	B2L2102	12/21/2022	12/23/2022
Barium	96.2	9.78	"	"	"	"	"

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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-12@4'

12/20/2022 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-06 (Soil)

## Table 915 metals by EPA 6020B

Cadmium	0.252	0.0978	mg/kg	10	B2L2102	12/21/2022	12/23/2022
Copper	11.6	9.78	"	"	"	"	"
Lead	15.0	9.78	"	"	"	"	"
Nickel	11.7	9.78	"	"	"	"	"
Selenium	0.453	0.0978	"	"	"	"	"
Silver	ND	0.0978	"	"	"	"	"
Zinc	ND	97.8	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	5	mg/Kg	10	L655603	12/20/2022	12/23/2022
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-13@4'

12/20/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.209	0.0996	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.5 %	50-150			"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-13@4'

12/20/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-07 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.4 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	89.9 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	1.31	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	1.01	0.823	"	"	"	"	"
Sodium	1.50	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.00201	"	"	"	"	"
Acenaphthene	ND	0.00067	"	"	"	"	"
Anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"	"	"
Chrysene	ND	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-13@4'

12/20/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y212459-07 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.00067	mg/Kg	1	L655233	12/21/2022	12/22/2022
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"	"	"
Naphthalene	ND	0.00201	"	"	"	"	"
Pyrene	ND	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	50.2 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.22	pH Units	1	B2L2116	12/21/2022	12/22/2022
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**SAR by 20B Saturated Paste**

SAR	1.39	SAR	1	B2L2105	12/21/2022	12/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.459	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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**Table 915 metals by EPA 6020B**

Arsenic	2.06	0.0947	mg/kg	10	B2L2102	12/21/2022	12/23/2022
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-13@4'

12/20/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-07 (Soil)

## Table 915 metals by EPA 6020B

Barium	45.9	9.47	mg/kg	10	B2L2102	12/21/2022	12/23/2022
Cadmium	ND	0.0947	"	"	"	"	"
Copper	ND	9.47	"	"	"	"	"
Lead	ND	9.47	"	"	"	"	"
Nickel	ND	9.47	"	"	"	"	"
Selenium	0.168	0.0947	"	"	"	"	"
Silver	ND	0.0947	"	"	"	"	"
Zinc	ND	94.7	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	2.5	mg/Kg	5	L655603	12/20/2022	12/23/2022
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-14@4'

12/20/2022 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.121	0.0997	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-14@4'

12/20/2022 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-08 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.9 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	1.29	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.00201	"	"	"	"	"
Acenaphthene	ND	0.00067	"	"	"	"	"
Anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00125	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00199	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00236	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00142	0.00067	"	"	"	"	"
Chrysene	0.00287	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00357	0.00067	"	"	"	"	"
Fluoranthene	0.000575	0.00067	"	"	"	"	"
Fluorene	ND	0.00067	"	"	"	"	"

J

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-14@4'

12/20/2022 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y212459-08 (Soil)

## PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00507	0.00067	mg/Kg	1	L655233	12/21/2022	12/22/2022
Naphthalene	ND	0.00201	"	"	"	"	"
Pyrene	0.000803	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.89	pH Units	1	B2L2116	12/21/2022	12/22/2022
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## SAR by 20B Saturated Paste

SAR	0.347	SAR	1	B2L2105	12/21/2022	12/27/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.284	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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## Table 915 metals by EPA 6020B

Arsenic	1.65	0.0961	mg/kg	10	B2L2311	12/23/2022	12/27/2022
Barium	76.4	9.61	"	"	"	"	"

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-14@4'

12/20/2022 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-08 (Soil)

## Table 915 metals by EPA 6020B

Cadmium	ND	0.0961	mg/kg	10	B2L2311	12/23/2022	12/27/2022
Copper	ND	9.61	"	"	"	"	"
Lead	ND	9.61	"	"	"	"	"
Nickel	ND	9.61	"	"	"	"	"
Selenium	0.159	0.0961	"	"	"	"	"
Silver	ND	0.0961	"	"	"	"	"
Zinc	ND	96.1	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.513	mg/Kg	1	L655603	12/20/2022	12/23/2022
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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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-15@4'

12/20/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.425	0.100	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.2 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-15@4'

12/20/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-09 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.3 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	91.4 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.21	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0101	mg/Kg	5	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.0101	"	"	"	"	"
Acenaphthene	ND	0.00335	"	"	"	"	"
Anthracene	ND	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	0.00315	0.00335	"	"	"	"	" J
Benzo(k)fluoranthene	ND	0.00335	"	"	"	"	"
Chrysene	ND	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00335	"	"	"	"	"
Fluoranthene	0.00276	0.00335	"	"	"	"	" J

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-15@4'

12/20/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y212459-09 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.00335	mg/Kg	5	L655233	12/21/2022	12/22/2022	
Indeno(1,2,3-cd)pyrene	0.00317	0.00335	"	"	"	"	"	J
Naphthalene	ND	0.0101	"	"	"	"	"	
Pyrene	ND	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.47	pH Units	1	B2L2116	12/21/2022	12/22/2022
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## SAR by 20B Saturated Paste

SAR	15.2	SAR	1	B2L2105	12/21/2022	12/27/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.647	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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## Table 915 metals by EPA 6020B

Arsenic	2.15	0.0964	mg/kg	10	B2L2311	12/23/2022	12/27/2022
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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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-15@4'

12/20/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-09 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	62.7	9.64	mg/kg	10	B2L2311	12/23/2022	12/27/2022
Cadmium	0.101	0.0964	"	"	"	"	"
Copper	ND	9.64	"	"	"	"	"
Lead	ND	9.64	"	"	"	"	"
Nickel	ND	9.64	"	"	"	"	"
Selenium	0.187	0.0964	"	"	"	"	"
Silver	ND	0.0964	"	"	"	"	"
Zinc	ND	96.4	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	1.01	mg/Kg	2	L655603	12/20/2022	12/23/2022
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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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-16@4'

12/20/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.408	0.0998	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.5 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-16@4'

12/20/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-10 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.6 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	89.2 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	2.21	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	0.833	0.823	"	"	"	"	"
Sodium	1.16	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0101	mg/Kg	5	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.0101	"	"	"	"	"
Acenaphthene	ND	0.00335	"	"	"	"	"
Anthracene	ND	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.00278	0.00335	"	"	"	"	" J
Benzo(a)pyrene	0.00318	0.00335	"	"	"	"	" J
Benzo(b)fluoranthene	0.00421	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00335	"	"	"	"	"
Chrysene	ND	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00335	"	"	"	"	"
Fluoranthene	0.00319	0.00335	"	"	"	"	" J
Fluorene	ND	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-16@4'

12/20/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y212459-10 (Soil)

## PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00335	mg/Kg	5	L655233	12/21/2022	12/22/2022
Naphthalene	ND	0.0101	"	"	"	"	"
Pyrene	0.00446	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.9 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.11	pH Units	1	B2L2116	12/21/2022	12/22/2022
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## SAR by 20B Saturated Paste

SAR	0.938	SAR	1	B2L2105	12/21/2022	12/27/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.469	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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## Table 915 metals by EPA 6020B

Arsenic	2.48	0.0962	mg/kg	10	B2L2311	12/23/2022	12/27/2022
Barium	102	9.62	"	"	"	"	"

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

SW-16@4'

12/20/2022 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-10 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.133	0.0962	mg/kg	10	B2L2311	12/23/2022	12/27/2022
Copper	ND	9.62	"	"	"	"	"
Lead	ND	9.62	"	"	"	"	"
Nickel	ND	9.62	"	"	"	"	"
Selenium	0.141	0.0962	"	"	"	"	"
Silver	ND	0.0962	"	"	"	"	"
Zinc	ND	96.2	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	1.04	mg/Kg	2	L655603	12/20/2022	12/23/2022
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-2@6'

12/20/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.431	0.0996	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	63.3 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-2@6'

12/20/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-11 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.5 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	90.9 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	1.66	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.39	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0101	mg/Kg	5	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.0101	"	"	"	"	"
Acenaphthene	ND	0.00335	"	"	"	"	"
Anthracene	ND	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.00914	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00335	"	"	"	"	"
Chrysene	ND	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-2@6'

12/20/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y212459-11 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.00335	mg/Kg	5	L655233	12/21/2022	12/22/2022
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"	"	"
Naphthalene	ND	0.0101	"	"	"	"	"
Pyrene	ND	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.9 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.30	pH Units	1	B2L2116	12/21/2022	12/22/2022
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**SAR by 20B Saturated Paste**

SAR	3.24	SAR	1	B2L2105	12/21/2022	12/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.630	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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**Table 915 metals by EPA 6020B**

Arsenic	1.95	0.0936	mg/kg	10	B2L2311	12/23/2022	12/27/2022
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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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-2@6'

12/20/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-11 (Soil)

## Table 915 metals by EPA 6020B

Barium	92.3	9.36	mg/kg	10	B2L2311	12/23/2022	12/27/2022
Cadmium	0.0983	0.0936	"	"	"	"	"
Copper	ND	9.36	"	"	"	"	"
Lead	ND	9.36	"	"	"	"	"
Nickel	ND	9.36	"	"	"	"	"
Selenium	ND	0.0936	"	"	"	"	"
Silver	ND	0.0936	"	"	"	"	"
Zinc	ND	93.6	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	1	mg/Kg	2	L655605	12/20/2022	12/23/2022
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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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-3@6'

12/20/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-12 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.266	0.0986	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.4 %	50-150			"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-3@6'

12/20/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-12 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.4 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	91.1 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	1.53	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	1.93	0.823	"	"	"	"	"
Sodium	3.43	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.00201	"	"	"	"	"
Acenaphthene	ND	0.00067	"	"	"	"	"
Anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"	"	"
Chrysene	ND	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00067	"	"	"	"	"

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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-3@6'

12/20/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y212459-12 (Soil)**

**PAH by 8270D SIM**

Fluorene	0.000463	0.00067	mg/Kg	1	L655233	12/21/2022	12/22/2022	J
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00201	"	"	"	"	"	
Pyrene	ND	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	43.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	52.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.27	pH Units	1	B2L2116	12/21/2022	12/22/2022
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**SAR by 20B Saturated Paste**

SAR	2.61	SAR	1	B2L2105	12/21/2022	12/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.771	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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**Table 915 metals by EPA 6020B**

Arsenic	2.98	0.0959	mg/kg	10	B2L2311	12/23/2022	12/27/2022
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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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-3@6'

12/20/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-12 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	90.7	9.59	mg/kg	10	B2L2311	12/23/2022	12/27/2022
Cadmium	0.106	0.0959	"	"	"	"	"
Copper	9.73	9.59	"	"	"	"	"
Lead	ND	9.59	"	"	"	"	"
Nickel	9.74	9.59	"	"	"	"	"
Selenium	0.107	0.0959	"	"	"	"	"
Silver	ND	0.0959	"	"	"	"	"
Zinc	ND	95.9	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.515	mg/Kg	1	L655605	12/20/2022	12/23/2022
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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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-4@6'

12/20/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-13 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.283	0.0985	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.8 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-4@6'

12/20/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-13 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	94.0 %	70-130	B2L22 22	12/22/2022	12/23/2022
Surrogate: 4-Bromofluorobenzene	90.4 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	2.77	0.499	meq/L	10	[CALC]	12/21/2022	12/27/2022
Magnesium	2.27	0.823	"	"	"	"	"
Sodium	3.56	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.0101	mg/Kg	5	L655233	12/21/2022	12/22/2022
2-Methylnaphthalene	ND	0.0101	"	"	"	"	"
Acenaphthene	ND	0.00335	"	"	"	"	"
Anthracene	ND	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00335	"	"	"	"	"
Chrysene	ND	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-4@6'

12/20/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y212459-13 (Soil)**

**PAH by 8270D SIM**

Fluorene	0.00152	0.00335	mg/Kg	5	L655233	12/21/2022	12/22/2022	J
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"	"	"	
Naphthalene	ND	0.0101	"	"	"	"	"	
Pyrene	ND	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.8 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.11	pH Units	1	B2L2116	12/21/2022	12/22/2022
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**SAR by 20B Saturated Paste**

SAR	2.24	SAR	1	B2L2105	12/21/2022	12/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.02	0.00500	mmhos/cm	1	B2L2116	12/21/2022	12/22/2022
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**Table 915 metals by EPA 6020B**

Arsenic	2.71	0.0949	mg/kg	10	B2L2311	12/23/2022	12/27/2022
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-4@6'

12/20/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-13 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	75.7	9.49	mg/kg	10	B2L2311	12/23/2022	12/27/2022
Cadmium	0.118	0.0949	"	"	"	"	"
Copper	ND	9.49	"	"	"	"	"
Lead	ND	9.49	"	"	"	"	"
Nickel	ND	9.49	"	"	"	"	"
Selenium	0.161	0.0949	"	"	"	"	"
Silver	ND	0.0949	"	"	"	"	"
Zinc	ND	94.9	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	1	mg/Kg	2	L655605	12/20/2022	12/23/2022
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-5@6'

12/20/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-14 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.331	0.0982	mg/L	1	B2L2108	12/21/2022	12/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L2019	12/20/2022	12/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	67.7 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00220	0.00200	mg/kg	1	B2L2222	12/22/2022	12/23/2022	
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	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-5@6'

12/20/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y212459-14 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.0 %	70-130	B2L22 22	12/22/2022	12/23/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	2.89	0.499	meq/L	10	[CALC]	12/22/2022	12/27/2022
Magnesium	2.32	0.823	"	"	"	"	"
Sodium	3.53	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00722	0.0101	mg/Kg	5	L655233	12/21/2022	12/22/2022	J
2-Methylnaphthalene	0.0111	0.0101	"	"	"	"	"	
Acenaphthene	ND	0.00335	"	"	"	"	"	
Anthracene	ND	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00335	"	"	"	"	"	
Chrysene	ND	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00335	"	"	"	"	"	
Fluorene	0.00444	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-5@6'

12/20/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y212459-14 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00335	mg/Kg	5	L655233	12/21/2022	12/22/2022
Naphthalene	ND	0.0101	"	"	"	"	"
Pyrene	ND	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.7 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.12	pH Units	1	B2L2217	12/22/2022	12/23/2022
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**SAR by 20B Saturated Paste**

SAR	2.19	SAR	1	B2L2213	12/22/2022	12/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.04	0.00500	mmhos/cm	1	B2L2217	12/22/2022	12/23/2022
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**Table 915 metals by EPA 6020B**

Arsenic	2.51	0.0916	mg/kg	10	B2L2311	12/23/2022	12/27/2022
Barium	76.7	9.16	"	"	"	"	"

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

BH-5@6'

12/20/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y212459-14 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.0971	0.0916	mg/kg	10	B2L2311	12/23/2022	12/27/2022
Copper	ND	9.16	"	"	"	"	"
Lead	ND	9.16	"	"	"	"	"
Nickel	ND	9.16	"	"	"	"	"
Selenium	0.166	0.0916	"	"	"	"	"
Silver	ND	0.0916	"	"	"	"	"
Zinc	ND	91.6	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	1.01	mg/Kg	2	L655605	12/20/2022	12/23/2022
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Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## 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
<b>Batch B2L2019 - EPA 3580</b>										
<b>Blank (B2L2019-BLK1)</b>					Prepared: 12/20/2022 Analyzed: 12/22/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		73.7	50-150			

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

**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
<b>Batch B2L2019 - EPA 3580</b>										
<b>LCS (B2L2019-BS1)</b>					Prepared: 12/20/2022 Analyzed: 12/22/2022					
Diesel (C10-C28)	988	50.0	mg/kg	1000		98.8	70-130			
Residual Range Organics (C28-C40)	773	200	"	1000		77.3	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.1	50-150			

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## 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 B2L2019 - EPA 3580

Matrix Spike (B2L2019-MS1)		Source: Y212459-01			Prepared: 12/20/2022 Analyzed: 12/23/2022					
Diesel (C10-C28)	999	50.0	mg/kg	1000	ND	99.9	70-130			
Residual Range Organics (C28-C40)	727	200	"	1000	ND	72.7	70-130			
Surrogate: o-Terphenyl	34		"	49.8		68.6	50-150			

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## 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 B2L2019 - EPA 3580

Matrix Spike Dup (B2L2019-MSD1)		Source: Y212459-01			Prepared: 12/20/2022 Analyzed: 12/23/2022					
Diesel (C10-C28)	961	50.0	mg/kg	1000	ND	96.1	70-130	3.81	35	
Residual Range Organics (C28-C40)	757	200	"	1000	ND	75.7	70-130	4.09	35	
Surrogate: o-Terphenyl	35		"	49.8		70.5	50-150			

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## 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 B2L2222 - EPA 5030 (soil)										
Blank (B2L2222-BLK1)					Prepared: 12/22/2022 Analyzed: 12/23/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.2	70-130			

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2L2222 - EPA 5030 (soil)**

**LCS (B2L2222-BS1)**

Prepared: 12/22/2022 Analyzed: 12/23/2022

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.0983	0.00200	"	0.100		98.3	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.8	70-130			

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2L2222 - EPA 5030 (soil)**

Matrix Spike (B2L2222-MS1)		Source: Y212459-01			Prepared: 12/22/2022 Analyzed: 12/23/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130			
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130			
Toluene	0.0994	0.00200	"	0.100	ND	99.4	70-130			
o-Xylene	0.0945	0.00200	"	0.100	ND	94.5	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	0.00182	96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.0	70-130			

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

**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 B2L2222 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2L2222-MSD1)</b>			<b>Source: Y212459-01</b>		Prepared: 12/22/2022 Analyzed: 12/23/2022					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	3.06	20	
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	3.17	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	3.79	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	3.94	20	
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130	4.74	20	
Toluene	0.103	0.00200	"	0.100	ND	103	70-130	3.50	20	
o-Xylene	0.0986	0.00200	"	0.100	ND	98.6	70-130	4.23	20	
m,p-Xylene	0.204	0.00400	"	0.200	0.00182	101	70-130	4.70	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.9	70-130			

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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**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 B2L2102 - EPA 3050B**

**Blank (B2L2102-BLK1)**

Prepared: 12/21/2022 Analyzed: 12/23/2022

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

**LCS (B2L2102-BS1)**

Prepared: 12/21/2022 Analyzed: 12/23/2022

Arsenic	0.0474	0.000100	mg/kg	0.0500	94.7	80-120
Barium	4.77	0.0100	"	5.00	95.4	80-120
Cadmium	0.0494	0.000100	"	0.0500	98.9	80-120
Copper	0.512	0.0100	"	0.500	102	80-120
Lead	0.0492	0.0100	"	0.0500	98.4	80-120
Nickel	0.0480	0.0100	"	0.0500	96.0	80-120
Selenium	0.0450	0.000100	"	0.0500	89.9	80-120
Silver	0.0521	0.000100	"	0.0500	104	80-120
Zinc	0.485	0.100	"	0.500	96.9	80-120

**Matrix Spike (B2L2102-MS1)**

**Source: Y212421-08**

Prepared: 12/21/2022 Analyzed: 12/23/2022

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

**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 B2L2102 - EPA 3050B**

Matrix Spike (B2L2102-MS1)		Source: Y212421-08			Prepared: 12/21/2022 Analyzed: 12/23/2022					
Arsenic	6.27	0.0941	mg/kg	4.71	1.44	103	75-125			
Barium	546	9.41	"	471	49.3	106	75-125			
Cadmium	5.16	0.0941	"	4.71	0.0452	109	75-125			
Copper	56.4	9.41	"	47.1	4.15	111	75-125			
Lead	8.94	9.41	"	4.71	4.15	102	75-125			
Nickel	9.83	9.41	"	4.71	5.66	88.6	75-125			
Selenium	4.55	0.0941	"	4.71	ND	96.6	75-125			
Silver	5.38	0.0941	"	4.71	0.0235	114	75-125			
Zinc	67.8	94.1	"	47.1	20.2	101	75-125			

Matrix Spike Dup (B2L2102-MSD1)		Source: Y212421-08			Prepared: 12/21/2022 Analyzed: 12/23/2022					
Arsenic	6.61	0.0932	mg/kg	4.66	1.44	111	75-125	5.28	20	
Barium	564	9.32	"	466	49.3	110	75-125	3.12	20	
Cadmium	5.27	0.0932	"	4.66	0.0452	112	75-125	2.10	20	
Copper	57.7	9.32	"	46.6	4.15	115	75-125	2.24	20	
Lead	9.22	9.32	"	4.66	4.15	109	75-125	3.06	20	
Nickel	10.6	9.32	"	4.66	5.66	106	75-125	7.50	20	
Selenium	4.65	0.0932	"	4.66	ND	99.8	75-125	2.34	20	
Silver	5.41	0.0932	"	4.66	0.0235	115	75-125	0.435	20	
Zinc	70.2	93.2	"	46.6	20.2	107	75-125	3.51	20	

**Batch B2L2311 - EPA 3050B**

Blank (B2L2311-BLK1)		Prepared: 12/23/2022 Analyzed: 12/27/2022								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

**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 B2L2311 - EPA 3050B**

**Blank (B2L2311-BLK1)**

Prepared: 12/23/2022 Analyzed: 12/27/2022

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

**LCS (B2L2311-BS1)**

Prepared: 12/23/2022 Analyzed: 12/27/2022

Arsenic	0.0480	0.000100	mg/kg	0.0500	96.0	80-120
Barium	5.10	0.0100	"	5.00	102	80-120
Cadmium	0.0506	0.000100	"	0.0500	101	80-120
Copper	0.515	0.0100	"	0.500	103	80-120
Lead	0.0521	0.0100	"	0.0500	104	80-120
Nickel	0.0470	0.0100	"	0.0500	93.9	80-120
Selenium	0.0488	0.000100	"	0.0500	97.6	80-120
Silver	0.0521	0.000100	"	0.0500	104	80-120
Zinc	0.497	0.100	"	0.500	99.3	80-120

**Matrix Spike (B2L2311-MS1)**

**Source: Y212459-08**

Prepared: 12/23/2022 Analyzed: 12/27/2022

Arsenic	6.80	0.0949	mg/kg	4.75	1.65	108	75-125
Barium	612	9.49	"	475	76.4	113	75-125
Cadmium	5.28	0.0949	"	4.75	0.0865	109	75-125
Copper	57.8	9.49	"	47.5	4.35	113	75-125
Lead	13.3	9.49	"	4.75	6.32	148	75-125
Nickel	8.82	9.49	"	4.75	3.12	120	75-125
Selenium	4.84	0.0949	"	4.75	0.159	98.6	75-125
Silver	5.35	0.0949	"	4.75	0.0125	113	75-125

QM-07

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Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

**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 B2L2311 - EPA 3050B</b>										
<b>Matrix Spike (B2L2311-MS1)</b>		<b>Source: Y212459-08</b>			Prepared: 12/23/2022 Analyzed: 12/27/2022					
Zinc	71.9	94.9	mg/kg	47.5	18.9	112	75-125			
<b>Matrix Spike Dup (B2L2311-MSD1)</b>		<b>Source: Y212459-08</b>			Prepared: 12/23/2022 Analyzed: 12/27/2022					
Arsenic	6.76	0.0954	mg/kg	4.77	1.65	107	75-125	0.646	20	
Barium	612	9.54	"	477	76.4	112	75-125	0.0289	20	
Cadmium	5.13	0.0954	"	4.77	0.0865	106	75-125	3.00	20	
Copper	57.8	9.54	"	47.7	4.35	112	75-125	0.0186	20	
Lead	12.9	9.54	"	4.77	6.32	138	75-125	3.23	20	QM-07
Nickel	10.9	9.54	"	4.77	3.12	162	75-125	20.8	20	QM-07, QR-DUP
Selenium	4.64	0.0954	"	4.77	0.159	93.8	75-125	4.25	20	
Silver	5.21	0.0954	"	4.77	0.0125	109	75-125	2.80	20	
Zinc	70.1	95.4	"	47.7	18.9	107	75-125	2.50	20	

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## 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 B2L2105 - Saturated Paste Metals

##### Blank (B2L2105-BLK1)

Prepared: 12/21/2022 Analyzed: 12/27/2022

SAR	0.00		SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

##### Duplicate (B2L2105-DUP1)

Source: Y212421-05

Prepared: 12/21/2022 Analyzed: 12/27/2022

Calcium PPM	0.798	10.0	mg/L	0.574	32.7	50
SAR	0.00		SAR	0.945	200	200
Magnesium PPM	0.626	10.0	mg/L	0.511	20.2	50
Sodium PPM	3.95	10.0	"	4.09	3.31	50

#### Batch B2L2107 - DTPA Sorbitol Preparation

##### Blank (B2L2107-BLK1)

Prepared: 12/21/2022 Analyzed: 12/23/2022

Boron	ND	0.100	mg/L
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##### Duplicate (B2L2107-DUP1)

Source: Y212459-01

Prepared: 12/21/2022 Analyzed: 12/23/2022

Boron	0.155	0.0998	mg/L	0.122	24.2	50
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#### Batch B2L2108 - DTPA Sorbitol Preparation

##### Blank (B2L2108-BLK1)

Prepared: 12/21/2022 Analyzed: 12/23/2022

Boron	ND	0.100	mg/L
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##### Duplicate (B2L2108-DUP1)

Source: Y212459-02

Prepared: 12/21/2022 Analyzed: 12/23/2022

Boron	1.27	0.0986	mg/L	1.22	3.76	50
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1700 Lincoln St #4550  
Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2L2213 - Saturated Paste Metals</b>										
<b>Blank (B2L2213-BLK1)</b>					Prepared: 12/22/2022 Analyzed: 12/27/2022					
Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B2L2213-DUP1)</b>					<b>Source: Y212459-14</b>		Prepared: 12/22/2022 Analyzed: 12/27/2022			
SAR	0.00		SAR		2.19			200	200	
Calcium PPM	85.0	10.0	mg/L		58.0			37.8	50	
Magnesium PPM	39.8	10.0	"		28.2			34.0	50	
Sodium PPM	103	10.0	"		81.2			24.0	50	

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Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B2L2116 - Saturated Paste pH/EC

#### Blank (B2L2116-BLK1)

Prepared: 12/21/2022 Analyzed: 12/22/2022

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B2L2116-DUP1)

Source: Y212421-05

Prepared: 12/21/2022 Analyzed: 12/22/2022

pH	7.23		pH Units	7.12			1.53	25
Specific Conductance (EC)	0.0413	0.00500	mmhos/cm	0.0369			11.3	25

### Batch B2L2217 - Saturated Paste pH/EC

#### Blank (B2L2217-BLK1)

Prepared: 12/22/2022 Analyzed: 12/23/2022

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B2L2217-DUP1)

Source: Y212459-14

Prepared: 12/22/2022 Analyzed: 12/23/2022

pH	8.09		pH Units	8.12			0.370	25
Specific Conductance (EC)	1.30	0.00500	mmhos/cm	1.04			22.6	25

Origins Laboratory, Inc.



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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L655233 - 3550B**

MSD (L 85431-MSD-L655233)		Source: Y212459-13			Prepared: 12/21/2022 Analyzed: 12/22/2022					
Indeno(1,2,3-cd)pyrene	0.214	0.00335	mg/Kg	0.166	<0.00314	129	30-130	6.2	30	
Anthracene	0.12	0.00335	"	0.166	<0.00167	72.2	30-130	5.1	30	
Acenaphthene	0.112	0.00335	"	0.166	<0.00152	67.4	30-130	2.7	30	
Benzo(a)pyrene	0.131	0.00335	"	0.166	<0.00234	78.9	30-130	6.2	30	
Benzo(b)fluoranthene	0.142	0.00335	"	0.166	<0.00293	85.5	30-130	2.8	30	
Benzo(k)fluoranthene	0.103	0.00335	"	0.166	<0.00219	62	30-130	6.8	30	
Chrysene	0.125	0.00335	"	0.166	<0.00312	75.3	30-130	6.6	30	
1-Methylnaphthalene	0.1	0.0101	"	0.166	<0.00549	60.2	30-130	1.2	30	
Dibenz(a,h)anthracene	0.187	0.00335	"	0.166	<0.00307	113	30-130	6.6	30	
Naphthalene	0.0972	0.0101	"	0.166	<0.00730	58.5	30-130	1.8	30	
Fluorene	0.119	0.00335	"	0.166	0.00152	70.7	30-130	2.5	30	
Benzo(a)anthracene	0.123	0.00335	"	0.166	<0.00247	74	30-130	1.6	30	
2-Methylnaphthalene	0.109	0.0101	"	0.166	<0.00972	65.6	30-130	1.8	30	
Pyrene	0.126	0.00335	"	0.166	<0.00322	75.9	30-130	6.5	30	
Fluoranthene	0.098	0.00335	"	0.166	<0.00197	59	30-130	12.4	30	
Surrogate: 4-Terphenyl-d14	74.3		"	0.331	227	74.3	33-122			
Surrogate: 2-Fluorobiphenyl	58		"	0.331	171	58	33-115			
Surrogate: Nitrobenzene-d5	57.7		"	0.331	172	57.7	29-110			

MS (L 85431-MS-L655233)		Source: Y212459-13			Prepared: 12/21/2022 Analyzed: 12/22/2022					
Fluoranthene	0.111	0.00335	mg/Kg	0.165	<0.00197	67.2	30-130			
1-Methylnaphthalene	0.0988	0.0101	"	0.165	<0.00549	59.8	30-130			
2-Methylnaphthalene	0.107	0.0101	"	0.165	<0.00972	64.8	30-130			
Indeno(1,2,3-cd)pyrene	0.201	0.00335	"	0.165	<0.00314	122	30-130			
Naphthalene	0.0954	0.0101	"	0.165	<0.00730	57.8	30-130			
Pyrene	0.118	0.00335	"	0.165	<0.00322	71.5	30-130			
Dibenz(a,h)anthracene	0.175	0.00335	"	0.165	<0.00307	106	30-130			

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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L655233 - 3550B**

MS (L 85431-MS-L655233)		Source: Y212459-13			Prepared: 12/21/2022 Analyzed: 12/22/2022					
Chrysene	0.117	0.00335	mg/Kg	0.165	<0.00312	70.9	30-130			
Benzo(k)fluoranthene	0.0962	0.00335	"	0.165	<0.00219	58.3	30-130			
Benzo(b)fluoranthene	0.138	0.00335	"	0.165	<0.00293	83.6	30-130			
Benzo(a)pyrene	0.123	0.00335	"	0.165	<0.00234	74.5	30-130			
Benzo(a)anthracene	0.121	0.00335	"	0.165	<0.00247	73.3	30-130			
Anthracene	0.114	0.00335	"	0.165	<0.00167	69	30-130			
Acenaphthene	0.109	0.00335	"	0.165	<0.00152	66	30-130			
Fluorene	0.116	0.00335	"	0.165	0.00152	69.3	30-130			
Surrogate: 2-Fluorobiphenyl	55.1		"	0.33	171	55.1	33-115			
Surrogate: Nitrobenzene-d5	53		"	0.33	172	53	29-110			
Surrogate: 4-Terphenyl-d14	69		"	0.33	227	69	33-122			

**LCS (LCS-L655233)**

Prepared: 12/21/2022 Analyzed: 12/22/2022

Benzo(a)pyrene	0.128	0.00067	mg/Kg	0.167		76.6	30-130
Benzo(a)anthracene	0.122	0.00067	"	0.167		73	30-130
1-Methylnaphthalene	0.094	0.00201	"	0.167		56.2	30-130
2-Methylnaphthalene	0.0973	0.00201	"	0.167		58.2	30-130
Benzo(k)fluoranthene	0.111	0.00067	"	0.167		66.4	30-130
Anthracene	0.111	0.00067	"	0.167		66.4	30-130
Pyrene	0.114	0.00067	"	0.167		68.2	30-130
Benzo(b)fluoranthene	0.133	0.00067	"	0.167		79.6	30-130
Chrysene	0.117	0.00067	"	0.167		70	30-130
Dibenz(a,h)anthracene	0.181	0.00067	"	0.167		108	30-130
Fluoranthene	0.116	0.00067	"	0.167		69.4	30-130
Fluorene	0.107	0.00067	"	0.167		64	30-130
Indeno(1,2,3-cd)pyrene	0.212	0.00067	"	0.167		127	30-130
Naphthalene	0.0954	0.00201	"	0.167		57.1	30-130

Origins Laboratory, Inc.



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1700 Lincoln St #4550  
Denver CO 80203

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L655233 - 3550B**

**LCS (LCS-L655233)**

Prepared: 12/21/2022 Analyzed: 12/22/2022

Acenaphthene	0.101	0.00067	mg/Kg	0.167		60.4	30-130			
Surrogate: 2-Fluorobiphenyl	50.1		"	0.333		50.1	33-115			
Surrogate: 4-Terphenyl-d14	58.5		"	0.333		58.5	33-122			
Surrogate: Nitrobenzene-d5	56.1		"	0.333		56.1	29-110			

**LRB (LRB-L655233)**

Prepared: 12/21/2022 Analyzed: 12/22/2022

Fluoranthene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: Nitrobenzene-d5	55.2		"	0.333		55.2	29-110			
Surrogate: 2-Fluorobiphenyl	50.4		"	0.333		50.4	33-115			
Surrogate: 4-Terphenyl-d14	59.4		"	0.333		59.4	33-122			

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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## 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 L655605 -</b>										
<b>DUP (L 85440-DUP)</b>		<b>Source: 85440</b>			Prepared: Analyzed: 12/23/2022					
Chromium, Hexavalent	ND	2.56	mg/Kg		<2.56	-		0	20	
<b>MS (L 85440-MS)</b>		<b>Source: 85440</b>			Prepared: Analyzed: 12/23/2022					
Chromium, Hexavalent	40.1	2.58	mg/Kg	41.2	<1.26	97	75-125			
<b>MSD (L 85440-MSD)</b>		<b>Source: 85440</b>			Prepared: Analyzed: 12/23/2022					
Chromium, Hexavalent	544	50	mg/Kg	617	<24.4	88	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 12/23/2022					
Chromium, Hexavalent	7.01	0.5	mg/Kg	8		88	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 12/23/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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1700 Lincoln St #4550  
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Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## 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 L655603 -</b>										
<b>DUP (L 85425-DUP)</b>	<b>Source: Y212459-07</b>				Prepared: Analyzed: 12/23/2022					
Chromium, Hexavalent	ND	2.53	mg/Kg		<2.53		-	0	20	
<b>MS (L 85425-MS)</b>	<b>Source: Y212459-07</b>				Prepared: Analyzed: 12/23/2022					
Chromium, Hexavalent	33.9	2.55	mg/Kg	40.8	<1.24	83	75-125			
<b>MSD (L 85425-MSD)</b>	<b>Source: Y212459-07</b>				Prepared: Analyzed: 12/23/2022					
Chromium, Hexavalent	530	50	mg/Kg	611	<24.4	87	75-125			

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

Levi Kirk  
Project Number: [none]  
Project: Koch Tank Battery

## Notes and Definitions

U Sample is Non-Detect.

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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