

January 17, 2024

KP Kauffman Co. Inc.

John Peterson

1700 Lincoln St #4550

Denver CO 80203

Project Name - HSR Lost Creek1-32

Project Number - [none]

Attached are your analytical results for HSR Lost Creek1-32 received by Origins Laboratory, Inc. December 12, 2023. This project is associated with Origins project number Y312330-01.

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

John Peterson

Project Number: [none]

Project: HSR Lost Creek1-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Source@Surface	Y312330-01	Soil	December 12, 2023 9:00	12/12/2023 12:54
Background@Surface	Y312330-02	Soil	December 12, 2023 9:20	12/12/2023 12:54

Chain of Custody Modification Request

On 12/14/2023, John Peterson from KPK contacted Jennifer Pellegrini via email regarding Y312330 requesting that RCI be added to the Source sample.

Requested modifications to the chain of custody were made by Jennifer Pellegrini on 12/14/2023.

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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

ORIGINS
LABORATORY, INC

www.originslaboratory.com

U312330

page | of |

Client: K.P. Kauffman Co.
Address: 1700 Lincoln St. Suite 4550
Denver CO. 80202
Telephone Number: (720) 868-9848
Email Address: JPeterson@KPK.com

Project Manager: John Peterson
Project Name: HSR Lost Creek 1-32
Project Number: _____
Samples Collected By: Juan Reyes

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	Vol	
Source @ Surface	12-12-23	000	3				X		X				1
Background @ Surface	12-12-23	020	3				X		X				2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: Juan Reyes Date: 12-12-23 Time: 1254
Relinquished By: _____ Date: _____ Time: _____

Received By: EH5 Date: 12/12/23 Time: 1254
Received By: _____ Date: _____ Time: _____

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

Date Results Needed

Temp Received- 12.5

Origins Laboratory, Inc.

J Byron

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KP Kauffman Co. Inc.

1700 Lincoln St #4550

Denver CO 80203

John Peterson

Project Number: [none]

Project: HSR Lost Creek1-32

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4312330

Client: KPIC

Client Project ID: Lost Creek 1-32

Checklist Completed by: EHS

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

Date/time completed: 12/12/23

Airbill #: N/A

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

Water

Other:

Cooler Number/Temperature: 1/12.5 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: 7004

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

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

Reviewed by (Project Manager)

12/14/23
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Source@Surface

12/12/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312330-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.837	0.100	mg/L	1	B3L1314	12/13/2023	12/14/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1130	25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023
Residual Range Organics (C28-C40)	1040	100	"	"	"	"	"

Surrogate: o-Terphenyl	92.3 %	50-150	"	"	"
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Flash Point by ASTM D93-80

Flash Point	ND	32	32	degrees F	1	L727417	12/12/2023	01/11/2024
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	12.0	0.500	mg/kg	250	B3L1431	12/14/2023	12/22/2023
1,3,5-Trimethylbenzene	2.83	0.0500	"	25	"	"	12/22/2023
Benzene	48.7	5.00	"	2500	"	"	12/24/2023
Ethylbenzene	2.86	0.0500	"	25	"	"	12/22/2023
Toluene	43.3	0.500	"	250	"	"	12/22/2023
Xylenes, total	23.8	0.500	"	"	"	"	"
Gasoline Range Hydrocarbons	7760	500	"	2500	"	"	12/24/2023
Surrogate: 1,2-Dichloroethane-d4	340 %	70-130	"	"	"	"	12/22/2023
Surrogate: Toluene-d8	108 %	70-130	"	"	"	"	"

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1700 Lincoln St #4550
Denver CO 80203

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Source@Surface

12/12/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312330-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 114 % 70-130 B3L14 31 12/14/2023 12/22/2023

Metals by Saturated Paste by EPA 6010

Calcium	12.5	0.499	meq/L	10	[CALC]	12/14/2023	12/15/2023
Magnesium	3.14	0.823	"	"	"	"	"
Sodium	6.38	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	3.20	0.020	mg/kg	10	B3L1320	12/13/2023	12/18/2023
2-Methylnaphthalene	4.87	0.020	"	"	"	"	"
Acenaphthene	0.496	0.020	"	1	"	"	12/16/2023
Anthracene	0.052	0.020	"	"	"	"	"
Benzo (a) anthracene	0.010	0.005	"	"	"	"	"
Benzo (a) pyrene	ND	0.020	"	"	"	"	" U
Benzo (b) fluoranthene	0.024	0.020	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	" U
Chrysene	0.076	0.020	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	" U
Fluoranthene	ND	0.020	"	"	"	"	" U
Fluorene	0.579	0.020	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	" U

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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Source@Surface

12/12/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312330-01 (Soil)

PAH by EPA 8270E

Naphthalene	1.61		0.020	mg/kg	10	B3L1320	12/13/2023	12/18/2023	
Pyrene	0.041		0.020	"	1	"	"	12/16/2023	

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	80.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.41			pH Units	1	B3L1415	12/14/2023	12/15/2023	
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Reactive Cyanide by Chapter SW-7.3.3

Cyanide, Reactive	ND	0.125	0.125	mg/Kg	1	L727350	12/12/2023	01/11/2024	
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Reactive Sulfide by Chapter SW-7.3.4

Sulfide (Reactivity)	ND	25.3	25.3	mg/Kg	1	L727351	"	01/11/2024	
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SAR by 20B Saturated Paste

SAR	2.28		0.0100	SAR	1	B3L1412	12/14/2023	12/15/2023	
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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Source@Surface

12/12/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312330-01 (Soil)

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.87	0.00500	mmhos/cm	1	B3L1415	12/14/2023	12/15/2023
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Total Metals by 6020B

Arsenic	0.45	0.0855	0.25	mg/Kg	5	L724032	12/21/2023	01/15/2024	
Barium	17.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.0796	0.026	0.25	"	"	"	"	"	J
Copper	4.78	0.0805	0.25	"	"	"	"	01/16/2024	
Lead	3.04	0.031	0.25	"	"	"	"	01/15/2024	
Nickel	1.98	0.0635	0.25	"	"	"	"	"	
Selenium	0.407	0.103	0.25	"	"	"	"	"	
Silver	0.0083	0.0067	0.25	"	"	"	"	"	J
Zinc	18.6	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L723603	12/12/2023	12/20/2023
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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Background@Surface
12/12/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312330-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.397	0.0992	mg/L	1	B3L1314	12/13/2023	12/14/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L1431	12/14/2023	12/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.00650	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.221	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Background@Surface
12/12/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312330-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 97.8 % 70-130 B3L14 31 12/14/2023 12/24/2023

Metals by Saturated Paste by EPA 6010

Calcium	15.6	0.499	meq/L	10	[CALC]	12/14/2023	12/15/2023
Magnesium	4.33	0.823	"	"	"	"	"
Sodium	4.27	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L1320	12/13/2023	12/16/2023	U
2-Methylnaphthalene	0.002	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Background@Surface
12/12/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312330-02 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B3L1320	12/13/2023	12/16/2023	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.82	pH Units	1	B3L1415	12/14/2023	12/15/2023
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SAR by 20B Saturated Paste

SAR	1.35	0.0100	SAR	1	B3L1412	12/14/2023	12/15/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.82	0.00500	mmhos/cm	1	B3L1415	12/14/2023	12/15/2023
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Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	1	L723606	12/12/2023	12/20/2023
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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Background@Surface
12/12/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312330-02 (Soil)

Total Metals by 6020B

Arsenic	0.461	0.0855	0.25	mg/Kg	5	L724032	12/21/2023	01/15/2024	
Barium	17.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.0874	0.026	0.25	"	"	"	"	"	J
Copper	4.82	0.0805	0.25	"	"	"	"	01/16/2024	
Lead	4.02	0.031	0.25	"	"	"	"	01/15/2024	
Nickel	1.8	0.0635	0.25	"	"	"	"	"	
Selenium	0.419	0.103	0.25	"	"	"	"	"	
Silver	0.0184	0.0067	0.25	"	"	"	"	"	J
Zinc	16.7	0.535	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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 B3L1301 - EPA 3550B										
Blank (B3L1301-BLK1)					Prepared: 12/13/2023 Analyzed: 12/14/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	13		"	24.9		52.8	50-150			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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 B3L1301 - EPA 3550B										
LCS (B3L1301-BS1)					Prepared: 12/13/2023 Analyzed: 12/14/2023					
Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	63		"	49.8		126	50-150			

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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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 B3L1301 - EPA 3550B

Matrix Spike (B3L1301-MS1)		Source: Y312311-01			Prepared: 12/13/2023 Analyzed: 12/14/2023					
Diesel (C10-C28)	963	50.0	mg/kg	1000	ND	96.3	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.2	50-150			

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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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 B3L1301 - EPA 3550B										
Matrix Spike Dup (B3L1301-MSD1)			Source: Y312311-01		Prepared: 12/13/2023 Analyzed: 12/14/2023					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	4.63	35	
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130	4.43	35	
Surrogate: o-Terphenyl	49		"	49.8		99.1	50-150			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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 B3L1431 - EPA 5030 (soil)										
Blank (B3L1431-BLK1)					Prepared: 12/14/2023 Analyzed: 12/21/2023					
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		93.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		116	70-130			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1431 - EPA 5030 (soil)										
LCS (B3L1431-BS1)					Prepared: 12/14/2023 Analyzed: 12/21/2023					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.0963	0.00200	"	0.100		96.3	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1431 - EPA 5030 (soil)										
Matrix Spike (B3L1431-MS1)	Source: Y312317-01				Prepared: 12/14/2023 Analyzed: 12/21/2023					
1,2,4-Trimethylbenzene	0.127	0.00200	mg/kg	0.100	ND	127	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.117	0.00200	"	0.100	ND	117	70-130			
Ethylbenzene	0.130	0.00200	"	0.100	ND	130	70-130			
Naphthalene	0.118	0.00380	"	0.100	ND	118	70-130			
Toluene	0.109	0.00200	"	0.100	ND	109	70-130			
o-Xylene	0.131	0.00200	"	0.100	ND	131	70-130			QM-07
m,p-Xylene	0.262	0.00400	"	0.200	ND	131	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1431 - EPA 5030 (soil)										
Matrix Spike Dup (B3L1431-MSD1)	Source: Y312317-01				Prepared: 12/14/2023 Analyzed: 12/21/2023					
1,2,4-Trimethylbenzene	0.129	0.00200	mg/kg	0.100	ND	129	70-130	1.46	20	
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130	0.141	20	
Benzene	0.120	0.00200	"	0.100	ND	120	70-130	2.04	20	
Ethylbenzene	0.133	0.00200	"	0.100	ND	133	70-130	1.89	20	QM-07
Naphthalene	0.124	0.00380	"	0.100	ND	124	70-130	4.80	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	0.183	20	
o-Xylene	0.135	0.00200	"	0.100	ND	135	70-130	3.11	20	QM-07
m,p-Xylene	0.268	0.00400	"	0.200	ND	134	70-130	2.35	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Origins Laboratory, Inc.



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1700 Lincoln St #4550
Denver CO 80203

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L1320 - EPA 3580

Blank (B3L1320-BLK1)

Prepared: 12/13/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	190		"	200		92.9	60-130			
Surrogate: Pyrene-d10	200		"	200		99.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L1320 - EPA 3580

LCS (B3L1320-BS1)

Prepared: 12/13/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200		106	70-130
2-Methylnaphthalene	0.210	0.002	"	0.200		105	70-130
Acenaphthene	0.198	0.020	"	0.200		98.9	70-130
Anthracene	0.193	0.020	"	0.200		96.4	70-130
Benzo (a) anthracene	0.219	0.005	"	0.200		109	70-130
Benzo (a) pyrene	0.211	0.020	"	0.200		106	70-130
Benzo (b) fluoranthene	0.191	0.020	"	0.200		95.6	70-130
Benzo (g,h,i) perylene	0.197	0.020	"	0.200		98.6	70-130
Benzo (k) fluoranthene	0.168	0.020	"	0.200		84.2	70-130
Chrysene	0.182	0.020	"	0.200		90.9	70-130
Dibenz (a,h) anthracene	0.214	0.020	"	0.200		107	70-130
Fluoranthene	0.199	0.020	"	0.200		99.6	70-130
Fluorene	0.208	0.020	"	0.200		104	70-130
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200		118	70-130
Naphthalene	0.201	0.002	"	0.200		101	70-130
Phenanthrene	0.184	0.020	"	0.200		91.9	70-130
Pyrene	0.187	0.020	"	0.200		93.5	70-130

Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130
Surrogate: Anthracene-d10	190		"	200		94.8	60-130
Surrogate: Pyrene-d10	190		"	200		94.7	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130

Matrix Spike (B3L1320-MS1)

Source: Y312293-01

Prepared: 12/13/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	ND	105	70-130
2-Methylnaphthalene	0.209	0.002	"	0.200	ND	105	70-130
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130
Anthracene	0.184	0.020	"	0.200	ND	92.1	70-130

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L1320 - EPA 3580

Matrix Spike (B3L1320-MS1)		Source: Y312293-01			Prepared: 12/13/2023 Analyzed: 12/16/2023					
Benzo (a) anthracene	0.197	0.005	mg/kg	0.200	ND	98.4	70-130			
Benzo (a) pyrene	0.221	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.002	97.1	70-130			
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	ND	109	70-130			
Benzo (k) fluoranthene	0.193	0.020	"	0.200	0.004	94.5	70-130			
Chrysene	0.192	0.020	"	0.200	ND	96.2	70-130			
Dibenz (a,h) anthracene	0.213	0.020	"	0.200	ND	107	70-130			
Fluoranthene	0.212	0.020	"	0.200	0.006	103	70-130			
Fluorene	0.212	0.020	"	0.200	ND	106	70-130			
Indeno (1,2,3-cd) pyrene	0.241	0.020	"	0.200	ND	121	70-130			
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.192	0.020	"	0.200	0.003	94.7	70-130			
Pyrene	0.188	0.020	"	0.200	0.005	91.9	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		96.6	60-130			
Surrogate: Pyrene-d10	190		"	200		94.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B3L1320-MSD1)		Source: Y312293-01			Prepared: 12/13/2023 Analyzed: 12/16/2023					
1-Methylnaphthalene	0.219	0.002	mg/kg	0.200	ND	110	70-130	4.13	20	
2-Methylnaphthalene	0.216	0.002	"	0.200	ND	108	70-130	3.09	20	
Acenaphthene	0.206	0.020	"	0.200	ND	103	70-130	2.07	20	
Anthracene	0.190	0.020	"	0.200	ND	94.8	70-130	2.86	20	
Benzo (a) anthracene	0.212	0.005	"	0.200	ND	106	70-130	7.48	20	
Benzo (a) pyrene	0.222	0.020	"	0.200	ND	111	70-130	0.461	20	
Benzo (b) fluoranthene	0.194	0.020	"	0.200	0.002	96.0	70-130	1.07	20	
Benzo (g,h,i) perylene	0.222	0.020	"	0.200	ND	111	70-130	1.85	20	

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L1320 - EPA 3580

Matrix Spike Dup (B3L1320-MSD1)		Source: Y312293-01			Prepared: 12/13/2023 Analyzed: 12/16/2023					
Benzo (k) fluoranthene	0.177	0.020	mg/kg	0.200	0.004	86.7	70-130	8.50	20	
Chrysene	0.199	0.020	"	0.200	ND	99.3	70-130	3.15	20	
Dibenz (a,h) anthracene	0.220	0.020	"	0.200	ND	110	70-130	3.14	20	
Fluoranthene	0.210	0.020	"	0.200	0.006	102	70-130	0.862	20	
Fluorene	0.220	0.020	"	0.200	ND	110	70-130	3.65	20	
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200	ND	99.7	70-130	18.9	20	
Naphthalene	0.209	0.002	"	0.200	ND	105	70-130	2.70	20	
Phenanthrene	0.195	0.020	"	0.200	0.003	96.3	70-130	1.68	20	
Pyrene	0.197	0.020	"	0.200	0.005	96.4	70-130	4.64	20	
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	190		"	200		95.4	60-130			
Surrogate: Pyrene-d10	190		"	200		95.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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 B3L1314 - DTPA Sorbitol Preparation

Blank (B3L1314-BLK1)

Prepared: 12/13/2023 Analyzed: 12/14/2023

Boron ND 0.100 mg/L

Duplicate (B3L1314-DUP1)

Source: Y312255-04

Prepared: 12/13/2023 Analyzed: 12/14/2023

Boron 0.0279 0.100 mg/L 0.0269 3.56 50

Batch B3L1412 - Saturated Paste Metals

Blank (B3L1412-BLK1)

Prepared: 12/14/2023 Analyzed: 12/15/2023

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3L1412-DUP1)

Source: Y312330-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

Calcium PPM 217 10.0 mg/L 251 14.7 50

SAR ND 0.0100 SAR 2.28 200

Magnesium PPM 33.0 10.0 mg/L 38.1 14.4 50

Sodium PPM 135 10.0 " 147 8.09 50

Origins Laboratory, Inc.



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Denver CO 80203

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1415 - Saturated Paste pH/EC										
Blank (B3L1415-BLK1)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3L1415-DUP1)					Source: Y312330-01 Prepared: 12/14/2023 Analyzed: 12/15/2023					
Specific Conductance (EC)	1.74	0.00500	mmhos/cm		1.87			7.09	25	
pH	7.38		pH Units		7.41			0.406	25	

Origins Laboratory, Inc.



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1700 Lincoln St #4550
Denver CO 80203

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Flash Point by ASTM D93-80 - 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 L727417 -

LCS (LCS)

Prepared: Analyzed: 01/11/2024

Flash Point	82.4	32	degrees F	80	104	90-110
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KP Kauffman Co. Inc.
1700 Lincoln St #4550
Denver CO 80203

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Reactive Cyanide by Chapter SW-7.3.3 - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L727350 -										
LCS (LCS)					Prepared: Analyzed: 01/11/2024					
Cyanide, Reactive	110	31.3	mg/Kg	1000		11	5-75			
LRB (LRB)					Prepared: Analyzed: 01/11/2024					
Cyanide, Reactive	ND	0.125	mg/Kg				-			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Reactive Sulfide by Chapter SW-7.3.4 - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L727351 -										
LCS (LCS)					Prepared: Analyzed: 01/11/2024					
Sulfide (Reactivity)	756	25	mg/Kg	232		326	50-130			*
LRB (LRB)					Prepared: Analyzed: 01/11/2024					
Sulfide (Reactivity)	ND	25	mg/Kg				-			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L723606 -										
DUP (L 87183-DUP)	Source: Y312330-02				Prepared: Analyzed: 12/20/2023					
Chromium, Hexavalent	ND	2.5	mg/Kg		<2.50	-		0	20	
MS (L 87183-MS)	Source: Y312330-02				Prepared: Analyzed: 12/20/2023					
Chromium, Hexavalent	17.3	2.57	mg/Kg	41.1	<1.25	42	75-125			*
LCS (LCS)					Prepared: Analyzed: 12/20/2023					
Chromium, Hexavalent	7.27	0.5	mg/Kg	8		91	75-125			
LRB (LRB)					Prepared: Analyzed: 12/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Total Metals by 6020B - 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 L724032 - 3050B

MSD (L 87411-MSD-L724032)			Source: 87411			Prepared: 12/21/2023 Analyzed: 01/15/2024				
Selenium	3.4	0.25	mg/Kg	4.83	0.353	63	75-125	7	80	*
Nickel	6.26	0.25	"	2.41	7.2	0	75-125	16.4	80	*
Lead	10.6	0.25	"	2.41	12.6	0	75-125	14.8	80	*
Copper	10.9	0.25	"	2.41	12.5	0	75-125	12	80	*
Zinc	50.5	2.5	"	24.1	47.9	11	75-125	13.9	80	*
Cadmium	0.621	0.25	"	0.483	0.283	70	75-125	3.7	80	*
Barium	70.7	0.25	"	4.83	129	0	75-125	21.6	80	*
Arsenic	2.33	0.25	"	2.41	1.44	37	75-125	10.1	80	*
Silver	0.516	0.25	"	0.483	0.0845	89	75-125	9.1	80	
MS (L 87411-MS-L724032)			Source: 87411			Prepared: 12/21/2023 Analyzed: 01/15/2024				
Lead	12.3	0.25	mg/Kg	2.34	12.6	0	75-125			*
Arsenic	2.58	0.25	"	2.34	1.44	49	75-125			*
Barium	87.9	0.25	"	4.68	129	0	75-125			*
Copper	12.3	0.25	"	2.34	12.5	0	75-125			*
Zinc	58.1	2.5	"	23.4	47.9	44	75-125			*
Nickel	7.38	0.25	"	2.34	7.2	8	75-125			*
Cadmium	0.598	0.25	"	0.468	0.283	67	75-125			*
Selenium	3.17	0.25	"	4.68	0.353	60	75-125			*
Silver	0.471	0.25	"	0.468	0.0845	83	75-125			
LCS (LCS-L724032)			Prepared: 12/21/2023 Analyzed: 01/15/2024							
Barium	5.23	0.25	mg/Kg	5		105	80-120			
Cadmium	0.471	0.25	"	0.5		94	80-120			
Arsenic	2.04	0.25	"	2.5		82	80-120			
Zinc	23.3	2.5	"	25		93	80-120			
Silver	0.466	0.25	"	0.5		93	80-120			

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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Total Metals by 6020B - 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 L724032 - 3050B

LCS (LCS-L724032)

Prepared: 12/21/2023 Analyzed: 01/15/2024

Selenium	4.11	0.25	mg/Kg	5		82	80-120			
Nickel	2.32	0.25	"	2.5		93	80-120			
Lead	2.47	0.25	"	2.5		99	80-120			
Copper	2.26	0.25	"	2.5		90	80-120			

LRB (LRB-L724032)

Prepared: 12/21/2023 Analyzed: 01/15/2024

Lead	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			

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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L723603 -										
DUP (L 87161-DUP)	Source: 87161				Prepared: Analyzed: 12/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 87161-MS)	Source: 87161				Prepared: Analyzed: 12/20/2023					
Chromium, Hexavalent	16	2.57	mg/Kg	41.1	<1.25	39	75-125			*
LCS (LCS)					Prepared: Analyzed: 12/20/2023					
Chromium, Hexavalent	7.16	0.5	mg/Kg	8		90	75-125			
LRB (LRB)					Prepared: Analyzed: 12/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

John Peterson
Project Number: [none]
Project: HSR Lost Creek1-32

Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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