



Absaroka
Max Dahlgren
112 High St.

December 12, 2024

Buffalo WY 82834

Project Name - KMG - Labrisa 11-35HZ

Project Number - [none]

Attached are your analytical results for KMG - Labrisa 11-35HZ received by Origins Laboratory November 05, 2024. This project is associated with Origins project number E4K0094-01.

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
303.433.1322
projectmanager@originslab.com



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

Absaroka
112 High St.
Buffalo

WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC01@3"	E4K0094-01	Soil	November 5, 2024 13:15	11/05/2024 15:05
BG01@3"	E4K0094-02	Soil	November 5, 2024 13:35	11/05/2024 15:05
BG02@3"	E4K0094-03	Soil	November 5, 2024 13:37	11/05/2024 15:05
BG03@3"	E4K0094-04	Soil	November 5, 2024 13:39	11/05/2024 15:05
BG04@3"	E4K0094-05	Soil	November 5, 2024 13:40	11/05/2024 15:05
BG05@3"	E4K0094-06	Soil	November 5, 2024 13:42	11/05/2024 15:05
BG06@3"	E4K0094-07	Soil	November 5, 2024 13:45	11/05/2024 15:05

Origins Laboratory



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ORIGINS

LABORATORY

Absaroka
112 High St.
Buffalo

WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E44A0094

Client: Absaroka

Client Project ID: Labr.5A

Checklist Completed by: JHD WS

Shipped Via: HD

Date/time completed: 11/5/12

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.9 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: 1007

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

11/5/12
Date/Time Reviewed

Origins Laboratory

J. Bynon

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Absaroka

112 High St.

Buffalo

WY

82834

Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

WC01@3"

11/5/2024 1:15:00PM

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

E4K0094-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.110	0.0984	mg/L	1	B4K0605	11/06/2024	11/07/2024
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	32000	250	mg/kg	10	B4K0544	11/05/2024	11/06/2024
Residual Range Organics (C28-C40)	17500	1000	"	"	"	"	"

Surrogate: o-Terphenyl	1200 %	50-150	"	"	"	S-06
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	440	5.00	mg/kg	2500	B4K0543	11/05/2024	11/06/2024
1,3,5-Trimethylbenzene	58.1	0.500	"	250	"	"	11/06/2024
Benzene	21.4	0.500	"	"	"	"	"
Ethylbenzene	78.7	0.500	"	"	"	"	"
Toluene	353	5.00	"	2500	"	"	11/06/2024
Xylenes, total	796	5.00	"	"	"	"	"
Gasoline Range Hydrocarbons	25400	500	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130	"	"	11/06/2024
Surrogate: Toluene-d8	143 %	70-130	"	"	" S-04
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

WC01@3"

11/5/2024 1:15:00PM

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

E4K0094-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	11.5	0.499	meq/L	10	[CALC]	11/06/2024	11/07/2024
Magnesium	2.87	0.823	"	"	"	"	"
Sodium	3.48	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	81.2	0.400	mg/kg	200	B4K0548	11/05/2024	11/19/2024
2-Methylnaphthalene	129	0.400	"	"	"	"	"
Acenaphthene	12.1	4.00	"	"	"	"	"
Anthracene	0.380	0.200	"	10	"	"	11/16/2024
Benzo (a) anthracene	ND	0.050	"	"	"	"	" R-05, Ua
Benzo (a) pyrene	ND	0.200	"	"	"	"	" I-01, R-05, Ua
Benzo (b) fluoranthene	0.271	0.200	"	"	"	"	" I-01
Benzo (k) fluoranthene	ND	0.200	"	"	"	"	" I-01, R-05, Ua
Chrysene	1.53	0.200	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.200	"	"	"	"	" I-01, R-05, Ua
Fluoranthene	0.374	0.200	"	"	"	"	"
Fluorene	15.6	4.00	"	200	"	"	11/19/2024
Indeno (1,2,3-cd) pyrene	ND	0.200	"	10	"	"	11/16/2024 I-01, R-05, Ua
Naphthalene	36.4	0.400	"	200	"	"	11/19/2024
Pyrene	0.934	0.200	"	10	"	"	11/16/2024
Surrogate: Fluorene-d10	77.4 %	60-130			"	"	"

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WC01@3"

11/5/2024 1:15:00PM

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

E4K0094-01 (Soil)

PAH by EPA 8270E extracted via 3580A

Surrogate: Anthracene-d10	91.8 %	60-130	B4K0548	11/05/2024	11/16/2024
Surrogate: Pyrene-d10	91.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.0 %	60-130	"	"	" I-01

pH in Soil by 9045D

pH	7.63	pH Units	1	B4K0620	11/06/2024	11/07/2024
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SAR by 20B Saturated Paste

SAR	1.30	0.0100	SAR	1	B4K0613	11/06/2024	11/07/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	ND	0.00500	mmhos/cm	1	B4K0620	11/06/2024	11/07/2024
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Table 915 metals by EPA 6020B

Arsenic	4.71	0.287	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Barium	204	9.88	"	"	"	"	"
Cadmium	0.126	0.0988	"	"	"	"	"
Copper	46.4	9.88	"	"	"	"	"
Lead	1.97	0.988	"	"	"	"	"
Nickel	9.96	0.988	"	"	"	"	"
Selenium	ND	0.257	"	"	"	"	"

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Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

WC01@3"

11/5/2024 1:15:00PM

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

E4K0094-01 (Soil)

Table 915 metals by EPA 6020B

Silver	ND		0.0988	mg/kg	10	B4K0547	11/05/2024	11/06/2024	
Zinc	ND		36.6	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.161	0.402	mg/kg dry	1	2713345	12/05/2024	12/09/2024	U
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Origins Laboratory



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Buffalo

WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

BG01@3"

11/5/2024 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0094-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0984	mg/L	1	B4K0605	11/06/2024	11/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.81	0.499	meq/L	10	[CALC]	11/06/2024	11/07/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.13	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.18		pH Units	1	B4K0620	11/06/2024	11/07/2024
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SAR by 20B Saturated Paste

SAR	1.41	0.0100	SAR	1	B4K0613	11/06/2024	11/07/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.875	0.00500	mmhos/cm	1	B4K0620	11/06/2024	11/07/2024
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Table 915 metals by EPA 6020B

Arsenic	8.78	0.275	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Barium	298	9.47	"	"	"	"	"
Cadmium	ND	0.0947	"	"	"	"	"
Copper	136	9.47	"	"	"	"	"

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82834

Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

BG01@3"

11/5/2024 1:35:00PM

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

E4K0094-02 (Soil)

Table 915 metals by EPA 6020B

Lead	2.81	0.947	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Nickel	14.6	0.947	"	"	"	"	"
Selenium	0.315	0.246	"	"	"	"	"
Silver	ND	0.0947	"	"	"	"	"
Zinc	43.6	35.0	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.117	0.292	mg/kg dry	1	2713345	12/05/2024	12/09/2024	U
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Origins Laboratory



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Absaroka
112 High St.
Buffalo

WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

BG02@3"

11/5/2024 1:37:00PM

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

E4K0094-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4K0605	11/06/2024	11/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.12	0.499	meq/L	10	[CALC]	11/06/2024	11/07/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.05	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.20		pH Units	1	B4K0620	11/06/2024	11/07/2024
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SAR by 20B Saturated Paste

SAR	0.908	0.0100	SAR	1	B4K0613	11/06/2024	11/07/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.532	0.00500	mmhos/cm	1	B4K0620	11/06/2024	11/07/2024
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Table 915 metals by EPA 6020B

Arsenic	7.45	0.273	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Barium	301	9.41	"	"	"	"	"
Cadmium	ND	0.0941	"	"	"	"	"
Copper	71.2	9.41	"	"	"	"	"

Origins Laboratory



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112 High St.

Buffalo

WY

82834

Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

BG02@3"

11/5/2024 1:37:00PM

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

E4K0094-03 (Soil)

Table 915 metals by EPA 6020B

Lead	4.19	0.941	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Nickel	16.1	0.941	"	"	"	"	"
Selenium	ND	0.245	"	"	"	"	"
Silver	ND	0.0941	"	"	"	"	"
Zinc	48.2	34.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.130	0.325	mg/kg dry	1	2713345	12/05/2024	12/09/2024	U
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Absaroka
112 High St.
Buffalo

WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

BG03@3"

11/5/2024 1:39:00PM

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

E4K0094-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B4K0605	11/06/2024	11/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.80	0.499	meq/L	10	[CALC]	11/06/2024	11/07/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.514	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.26		pH Units	1	B4K0620	11/06/2024	11/07/2024
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SAR by 20B Saturated Paste

SAR	0.493	0.0100	SAR	1	B4K0613	11/06/2024	11/07/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.384	0.00500	mmhos/cm	1	B4K0620	11/06/2024	11/07/2024
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Table 915 metals by EPA 6020B

Arsenic	9.05	0.281	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Barium	257	9.68	"	"	"	"	"
Cadmium	ND	0.0968	"	"	"	"	"
Copper	54.6	9.68	"	"	"	"	"

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112 High St.

Buffalo

WY

82834

Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

BG03@3"

11/5/2024 1:39:00PM

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

E4K0094-04 (Soil)

Table 915 metals by EPA 6020B

Lead	2.86	0.968	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Nickel	14.7	0.968	"	"	"	"	"
Selenium	ND	0.252	"	"	"	"	"
Silver	ND	0.0968	"	"	"	"	"
Zinc	44.1	35.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.114	0.286	mg/kg dry	1	2713345	12/05/2024	12/09/2024	U
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Origins Laboratory

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo

WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

BG04@3"

11/5/2024 1:40:00PM

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

E4K0094-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B4K0605	11/06/2024	11/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.28	0.499	meq/L	10	[CALC]	11/06/2024	11/07/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.958	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.23		pH Units	1	B4K0620	11/06/2024	11/07/2024
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SAR by 20B Saturated Paste

SAR	0.810	0.0100	SAR	1	B4K0613	11/06/2024	11/07/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.523	0.00500	mmhos/cm	1	B4K0620	11/06/2024	11/07/2024
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Table 915 metals by EPA 6020B

Arsenic	7.91	0.283	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Barium	252	9.77	"	"	"	"	"
Cadmium	ND	0.0977	"	"	"	"	"
Copper	41.1	9.77	"	"	"	"	"

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112 High St.

Buffalo

WY

82834

Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

BG04@3"

11/5/2024 1:40:00PM

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

E4K0094-05 (Soil)

Table 915 metals by EPA 6020B

Lead	2.78	0.977	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Nickel	15.6	0.977	"	"	"	"	"
Selenium	ND	0.254	"	"	"	"	"
Silver	ND	0.0977	"	"	"	"	"
Zinc	45.4	36.2	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.126	0.314	mg/kg dry	1	2713345	12/05/2024	12/09/2024	U
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Absaroka
112 High St.
Buffalo

WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

BG05@3"

11/5/2024 1:42:00PM

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

E4K0094-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4K0605	11/06/2024	11/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.699	0.499	meq/L	10	[CALC]	11/06/2024	11/07/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	6.13		pH Units	1	B4K0620	11/06/2024	11/07/2024
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SAR by 20B Saturated Paste

SAR	0.0713	0.0100	SAR	1	B4K0613	11/06/2024	11/07/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.182	0.00500	mmhos/cm	1	B4K0620	11/06/2024	11/07/2024
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Table 915 metals by EPA 6020B

Arsenic	1.23	0.262	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Barium	28.7	9.02	"	"	"	"	"
Cadmium	0.115	0.0902	"	"	"	"	"

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Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

BG05@3"

11/5/2024 1:42:00PM

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

E4K0094-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.02	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Lead	5.78	0.902	"	"	"	"	"
Nickel	2.54	0.902	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"
Silver	ND	0.0902	"	"	"	"	"
Zinc	ND	33.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.128	0.319	mg/kg dry	1	2713345	12/05/2024	12/09/2024	U
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112 High St.
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WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

BG06@3"

11/5/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4K0094-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0997	mg/L	1	B4K0605	11/06/2024	11/07/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	11/06/2024	11/07/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	6.41		pH Units	1	B4K0620	11/06/2024	11/07/2024
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SAR by 20B Saturated Paste

SAR	0.0550	0.0100	SAR	1	B4K0613	11/06/2024	11/07/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.120	0.00500	mmhos/cm	1	B4K0620	11/06/2024	11/07/2024
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Table 915 metals by EPA 6020B

Arsenic	3.72	0.244	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Barium	110	8.43	"	"	"	"	"
Cadmium	0.121	0.0843	"	"	"	"	"

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Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

BG06@3"

11/5/2024 1:45:00PM

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

E4K0094-07 (Soil)

Table 915 metals by EPA 6020B

Copper	8.70	8.43	mg/kg	10	B4K0547	11/05/2024	11/06/2024
Lead	11.2	0.843	"	"	"	"	"
Nickel	13.1	0.843	"	"	"	"	"
Selenium	ND	0.219	"	"	"	"	"
Silver	ND	0.0843	"	"	"	"	"
Zinc	52.5	31.2	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.152	0.380	mg/kg dry	1	2713345	12/05/2024	12/09/2024	U
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Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

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

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4K0543 - EPA 5030 (soil)										
Blank (B4K0543-BLK1)					Prepared: 11/05/2024 Analyzed: 11/05/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		120	70-130			

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Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

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

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4K0543 - EPA 5030 (soil)										
LCS (B4K0543-BS1)					Prepared: 11/05/2024 Analyzed: 11/05/2024					
1,2,4-Trimethylbenzene	0.0959	0.00200	mg/kg	0.100		95.9	70-130			
1,3,5-Trimethylbenzene	0.0953	0.00200	"	0.100		95.3	70-130			
Benzene	0.0918	0.00200	"	0.100		91.8	70-130			
Ethylbenzene	0.0934	0.00200	"	0.100		93.4	70-130			
Naphthalene	0.0933	0.00380	"	0.100		93.3	70-130			
Toluene	0.0890	0.00200	"	0.100		89.0	70-130			
o-Xylene	0.0945	0.00200	"	0.100		94.5	70-130			
m,p-Xylene	0.194	0.00400	"	0.200		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130			

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Project Number: [none]
Project: KMG - Labrisa 11-35HZ

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

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4K0543 - EPA 5030 (soil)										
Matrix Spike (B4K0543-MS1)		Source: E4K0091-11			Prepared: 11/05/2024 Analyzed: 11/05/2024					
1,2,4-Trimethylbenzene	0.0872	0.00200	mg/kg	0.100	ND	87.2	70-130			
1,3,5-Trimethylbenzene	0.0837	0.00200	"	0.100	ND	83.7	70-130			
Benzene	0.0874	0.00200	"	0.100	ND	87.4	70-130			
Ethylbenzene	0.0790	0.00200	"	0.100	ND	79.0	70-130			
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130			
Toluene	0.0870	0.00200	"	0.100	ND	87.0	70-130			
o-Xylene	0.0847	0.00200	"	0.100	ND	84.7	70-130			
m,p-Xylene	0.164	0.00400	"	0.200	ND	82.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.1	70-130			

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Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

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

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4K0543 - EPA 5030 (soil)										
Matrix Spike Dup (B4K0543-MSD1)			Source: E4K0091-11		Prepared: 11/05/2024 Analyzed: 11/05/2024					
1,2,4-Trimethylbenzene	0.0864	0.00200	mg/kg	0.100	ND	86.4	70-130	0.945	20	
1,3,5-Trimethylbenzene	0.0846	0.00200	"	0.100	ND	84.6	70-130	1.14	20	
Benzene	0.0851	0.00200	"	0.100	ND	85.1	70-130	2.64	20	
Ethylbenzene	0.0834	0.00200	"	0.100	ND	83.4	70-130	5.34	20	
Naphthalene	0.0962	0.00380	"	0.100	ND	96.2	70-130	6.81	20	
Toluene	0.0799	0.00200	"	0.100	ND	79.9	70-130	8.56	20	
o-Xylene	0.0862	0.00200	"	0.100	ND	86.2	70-130	1.66	20	
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.3	70-130	5.10	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0544 - EPA 3550B

Blank (B4K0544-BLK1)

Prepared: 11/05/2024 Analyzed: 11/05/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		85.4	50-150			

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Jordan A. Bynon, Project Manager



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Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0544 - EPA 3550B

LCS (B4K0544-BS1)

Prepared: 11/05/2024 Analyzed: 11/05/2024

Diesel (C10-C28)	923	50.0	mg/kg	1000		92.3	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.0	50-150			

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Jordan A. Bynon, Project Manager



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Project Number: [none]

Project: KMG - Labrisa 11-35HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0544 - EPA 3550B

Matrix Spike (B4K0544-MS1)		Source: E4K0091-11			Prepared: 11/05/2024 Analyzed: 11/05/2024					
Diesel (C10-C28)	990	50.0	mg/kg	1000	ND	99.0	70-130			
Residual Range Organics (C28-C40)	1220	200	"	1000	115	111	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.8	50-150			

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Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0544 - EPA 3550B

Matrix Spike Dup (B4K0544-MSD1)		Source: E4K0091-11			Prepared: 11/05/2024 Analyzed: 11/05/2024					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	2.12	35	
Residual Range Organics (C28-C40)	1240	200	"	1000	115	112	70-130	1.14	35	
Surrogate: o-Terphenyl	46		"	49.8		92.9	50-150			

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Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0547 - EPA 3050B

Blank (B4K0547-BLK1)

Prepared: 11/05/2024 Analyzed: 11/06/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4K0547-BS1)

Prepared: 11/05/2024 Analyzed: 11/06/2024

Arsenic	5.35	0.290	mg/kg	5.00	107	80-120
Barium	527	10.0	"	500	105	80-120
Cadmium	5.10	0.100	"	5.00	102	80-120
Copper	50.7	10.0	"	50.0	101	80-120
Lead	5.22	1.00	"	5.00	104	80-120
Nickel	5.66	1.00	"	5.00	113	80-120
Selenium	5.46	0.260	"	5.00	109	80-120
Silver	5.63	0.100	"	5.00	113	80-120
Zinc	52.4	37.0	"	50.0	105	80-120

Matrix Spike (B4K0547-MS1)

Source: E4K0094-06

Prepared: 11/05/2024 Analyzed: 11/06/2024

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Project Number: [none]
Project: KMG - Labrisa 11-35HZ

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0547 - EPA 3050B

Matrix Spike (B4K0547-MS1)		Source: E4K0094-06			Prepared: 11/05/2024 Analyzed: 11/06/2024					
Arsenic	5.98	0.271	mg/kg	4.66	1.23	102	75-125			
Barium	522	9.33	"	466	28.7	106	75-125			
Cadmium	4.96	0.0933	"	4.66	0.115	104	75-125			
Copper	49.1	9.33	"	46.6	2.73	99.4	75-125			
Lead	10.5	0.933	"	4.66	5.78	101	75-125			
Nickel	7.78	0.933	"	4.66	2.54	112	75-125			
Selenium	4.98	0.243	"	4.66	0.0541	106	75-125			
Silver	5.26	0.0933	"	4.66	0.0108	113	75-125			
Zinc	63.1	34.5	"	46.6	16.4	100	75-125			
Matrix Spike Dup (B4K0547-MSD1)		Source: E4K0094-06			Prepared: 11/05/2024 Analyzed: 11/06/2024					
Arsenic	5.90	0.263	mg/kg	4.53	1.23	103	75-125	1.28	20	
Barium	483	9.06	"	453	28.7	100	75-125	7.76	20	
Cadmium	4.55	0.0906	"	4.53	0.115	97.9	75-125	8.61	20	
Copper	47.5	9.06	"	45.3	2.73	98.8	75-125	3.32	20	
Lead	9.79	0.906	"	4.53	5.78	88.4	75-125	6.74	20	
Nickel	7.23	0.906	"	4.53	2.54	104	75-125	7.30	20	
Selenium	4.76	0.236	"	4.53	0.0541	104	75-125	4.42	20	
Silver	4.91	0.0906	"	4.53	0.0108	108	75-125	7.01	20	
Zinc	61.0	33.5	"	45.3	16.4	98.3	75-125	3.34	20	

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Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0548 - EPA 3580

Blank (B4K0548-BLK1)

Prepared: 11/05/2024 Analyzed: 11/15/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	190		ug/kg	200		95.2	60-130			
Surrogate: Anthracene-d10	180		"	200		89.2	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

LCS (B4K0548-BS1)

Prepared: 11/05/2024 Analyzed: 11/15/2024

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.201	0.002	"	0.200		100	70-130			
Acenaphthene	0.202	0.020	"	0.200		101	70-130			
Anthracene	0.188	0.020	"	0.200		94.2	70-130			

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Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0548 - EPA 3580

LCS (B4K0548-BS1)

Prepared: 11/05/2024 Analyzed: 11/15/2024

Benzo (a) anthracene	0.188	0.005	mg/kg	0.200		93.8	70-130
Benzo (a) pyrene	0.174	0.020	"	0.200		86.8	70-130
Benzo (b) fluoranthene	0.239	0.020	"	0.200		120	70-130
Benzo (g,h,i) perylene	0.202	0.020	"	0.200		101	70-130
Benzo (k) fluoranthene	0.171	0.020	"	0.200		85.4	70-130
Chrysene	0.211	0.020	"	0.200		106	70-130
Dibenz (a,h) anthracene	0.196	0.020	"	0.200		98.1	70-130
Fluoranthene	0.235	0.020	"	0.200		118	70-130
Fluorene	0.196	0.020	"	0.200		98.0	70-130
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200		99.7	70-130
Naphthalene	0.207	0.002	"	0.200		104	70-130
Phenanthrene	0.208	0.020	"	0.200		104	70-130
Pyrene	0.223	0.020	"	0.200		111	70-130
Surrogate: Fluorene-d10	180		ug/kg	200		88.8	60-130
Surrogate: Anthracene-d10	180		"	200		90.1	60-130
Surrogate: Pyrene-d10	220		"	200		110	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.3	60-130

Matrix Spike (B4K0548-MS1)

Source: E4K0091-10

Prepared: 11/05/2024 Analyzed: 11/15/2024

1-Methylnaphthalene	0.183	0.002	mg/kg	0.200	0.0006	91.1	70-130
2-Methylnaphthalene	0.191	0.002	"	0.200	0.001	94.8	70-130
Acenaphthene	0.201	0.020	"	0.200	0.0009	99.9	70-130
Anthracene	0.175	0.020	"	0.200	0.002	86.8	70-130
Benzo (a) anthracene	0.182	0.005	"	0.200	0.006	88.2	70-130
Benzo (a) pyrene	0.181	0.020	"	0.200	0.006	87.6	70-130
Benzo (b) fluoranthene	0.251	0.020	"	0.200	0.008	121	70-130
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	0.010	102	70-130

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Absaroka
112 High St.
Buffalo

WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0548 - EPA 3580

Matrix Spike (B4K0548-MS1)		Source: E4K0091-10			Prepared: 11/05/2024 Analyzed: 11/15/2024					
Benzo (k) fluoranthene	0.189	0.020	mg/kg	0.200	0.006	91.3	70-130			
Chrysene	0.207	0.020	"	0.200	0.008	99.9	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200	0.007	102	70-130			
Fluoranthene	0.209	0.020	"	0.200	0.008	100	70-130			
Fluorene	0.206	0.020	"	0.200	0.001	102	70-130			
Indeno (1,2,3-cd) pyrene	0.250	0.020	"	0.200	0.009	121	70-130			
Naphthalene	0.195	0.002	"	0.200	ND	97.7	70-130			
Phenanthrene	0.204	0.020	"	0.200	0.003	100	70-130			
Pyrene	0.211	0.020	"	0.200	0.009	101	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.6	60-130			
Surrogate: Anthracene-d10	170		"	200		87.4	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.4	60-130			

Matrix Spike Dup (B4K0548-MSD1)		Source: E4K0091-10			Prepared: 11/05/2024 Analyzed: 11/15/2024					
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.0006	95.6	70-130	4.72	20	
2-Methylnaphthalene	0.204	0.002	"	0.200	0.001	101	70-130	6.49	20	
Acenaphthene	0.206	0.020	"	0.200	0.0009	103	70-130	2.90	20	
Anthracene	0.189	0.020	"	0.200	0.002	93.8	70-130	7.68	20	
Benzo (a) anthracene	0.184	0.005	"	0.200	0.006	89.1	70-130	1.03	20	
Benzo (a) pyrene	0.187	0.020	"	0.200	0.006	90.7	70-130	3.35	20	
Benzo (b) fluoranthene	0.257	0.020	"	0.200	0.008	124	70-130	2.40	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.010	98.9	70-130	2.61	20	
Benzo (k) fluoranthene	0.207	0.020	"	0.200	0.006	100	70-130	9.16	20	
Chrysene	0.202	0.020	"	0.200	0.008	97.4	70-130	2.42	20	
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	0.007	107	70-130	4.67	20	
Fluoranthene	0.217	0.020	"	0.200	0.008	104	70-130	3.66	20	

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Max Dahlgren
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Project: KMG - Labrisa 11-35HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0548 - EPA 3580

Matrix Spike Dup (B4K0548-MSD1)		Source: E4K0091-10			Prepared: 11/05/2024 Analyzed: 11/15/2024					
Fluorene	0.202	0.020	mg/kg	0.200	0.001	101	70-130	1.78	20	
Indeno (1,2,3-cd) pyrene	0.258	0.020	"	0.200	0.009	124	70-130	2.91	20	
Naphthalene	0.205	0.002	"	0.200	ND	103	70-130	4.82	20	
Phenanthrene	0.213	0.020	"	0.200	0.003	105	70-130	4.29	20	
Pyrene	0.230	0.020	"	0.200	0.009	110	70-130	8.52	20	
Surrogate: Fluorene-d10	190		ug/kg	200		93.6	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		92.8	60-130			

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Jordan A. Bynon, Project Manager

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Buffalo

WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

Classical Chemistry Parameters - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0605 - DTPA Sorbitol Preparation

Blank (B4K0605-BLK1)

Prepared: 11/06/2024 Analyzed: 11/07/2024

Boron ND 0.100 mg/L

Duplicate (B4K0605-DUP1)

Source: E4J0020-01

Prepared: 11/06/2024 Analyzed: 11/07/2024

Boron 0.233 0.0987 mg/L 0.145 46.3 50

Batch B4K0613 - Saturated Paste Metals

Blank (B4K0613-BLK1)

Prepared: 11/06/2024 Analyzed: 11/07/2024

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

Duplicate (B4K0613-DUP1)

Source: E4K0085-01

Prepared: 11/06/2024 Analyzed: 11/07/2024

Calcium PPM 129 10.0 mg/L 129 0.481 50
SAR ND 0.0100 SAR 0.373 200
Magnesium PPM 26.4 10.0 mg/L 26.4 0.0758 50
Sodium PPM 18.0 10.0 " 17.8 1.06 50

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Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

Saturated Paste - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0620 - Saturated Paste pH/EC

Blank (B4K0620-BLK1)

Prepared: 11/06/2024 Analyzed: 11/07/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4K0620-DUP1)

Source: E4K0085-01

Prepared: 11/06/2024 Analyzed: 11/07/2024

Specific Conductance (EC)	1.27	0.00500	mmhos/cm	1.29	1.06	25
pH	7.05		pH Units	7.07	0.283	25

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Jordan A. Bynon, Project Manager



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Max Dahlgren
Project Number: [none]
Project: KMG - Labrisa 11-35HZ

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2713345 - SW846 3060A										
BLANK (1205934365-BLK)					Prepared: 12/05/2024 Analyzed: 12/09/2024					
Hexavalent Chromium	ND	0.390	mg/kg				-			U
LCS (1205934366-BKS)					Prepared: 12/05/2024 Analyzed: 12/09/2024					
Hexavalent Chromium	2.93	0.298	mg/kg	2.98		98.3	80-120			
DUP (1205934367 D)					Source: E4K0094-01 Prepared: 12/05/2024 Analyzed: 12/09/2024					
Hexavalent Chromium	ND	0.403	mg/kg dry		<0.161		0-50	N/A	50	U
MS (1205934368 S)					Source: E4K0094-01 Prepared: 12/05/2024 Analyzed: 12/09/2024					
Hexavalent Chromium	2.83	0.403	mg/kg dry	4.03	<0.161	68.2	75-125			
DUP (1205934369 D)					Source: E4K0094-02 Prepared: 12/05/2024 Analyzed: 12/09/2024					
Hexavalent Chromium	ND	0.292	mg/kg dry		<0.117		0-50	N/A	50	U
MS (1205934370 S)					Source: E4K0094-02 Prepared: 12/05/2024 Analyzed: 12/09/2024					
Hexavalent Chromium	2.02	0.292	mg/kg dry	2.92	<0.117	65.9	75-125			
ILCS (1205934371-ILCS)					Prepared: 12/05/2024 Analyzed: 12/09/2024					
Hexavalent Chromium	6.78	0.316	mg/kg	6.35		107	80-120			

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Jordan A. Bynon, Project Manager

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Max Dahlgren

Project Number: [none]

Project: KMG - Labrisa 11-35HZ

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

I-01 Due to matrix interference, the sample cannot be accurately quantified. The reported result is qualitative.

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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