



August 17, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Brandel 5-14A

Project Number - [none]

Attached are your analytical results for KMG - Brandel 5-14A received by Origins Laboratory, Inc. August 14, 2023. This project is associated with Origins project number Y308351-01.

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

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

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

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

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

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



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@8'	Y308351-01	Soil	August 14, 2023 13:03	08/14/2023 17:11
WH-N01@7'	Y308351-02	Soil	August 14, 2023 13:05	08/14/2023 17:11
FL-B01@6'	Y308351-03	Soil	August 14, 2023 13:07	08/14/2023 17:11
FL-B02@4'	Y308351-04	Soil	August 14, 2023 15:23	08/14/2023 17:11
WH-BG01@3'	Y308351-05	Soil	August 14, 2023 14:11	08/14/2023 17:11
WH-BG01@6'	Y308351-06	Soil	August 14, 2023 14:13	08/14/2023 17:11
WH-BG02@3'	Y308351-07	Soil	August 14, 2023 14:17	08/14/2023 17:11
WH-BG02@6'	Y308351-08	Soil	August 14, 2023 14:19	08/14/2023 17:11
WH-BG03@3'	Y308351-09	Soil	August 14, 2023 14:23	08/14/2023 17:11
WH-BG03@6'	Y308351-10	Soil	August 14, 2023 14:25	08/14/2023 17:11

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

Origins Laboratory

F-012207-01-R
 Effective Date: 01/09/1

Sample Receipt Checklist

Origins Work Order: MP008351

Client: Eagle Environmental
 Client Project ID: Brandel 5-14A

Checklist Completed by: TSH
 Date/time completed: 8/14/23

Shipped Via: HD
 (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 / 1.9 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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: [Signature]
 (Project Manager)

8/14/23
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

WH-B01@8'
8/14/2023 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.265	0.0994	mg/L	1	B3H1504	KAP	08/15/2023	08/16/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H1432	ZZZ	08/14/2023	08/14/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	92.3 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H1431	HKS	08/14/2023	08/14/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

WH-B01@8'
8/14/2023 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.982	0.499	meq/L	10	[CALC]	KAP	08/15/2023	08/16/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	2.11	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.46		pH Units	1	B3H1510	HJD	08/15/2023	08/16/2023
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SAR by 20B Saturated Paste

SAR	2.58		SAR	1	B3H1507	KAP	08/15/2023	08/16/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.564	0.00500	mmhos/cm	1	B3H1510	HJD	08/15/2023	08/16/2023
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

WH-N01@7'
8/14/2023 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.141	0.0993	mg/L	1	B3H1504	KAP	08/15/2023	08/16/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H1432	ZZZ	08/14/2023	08/14/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	98.0 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H1431	HKS	08/14/2023	08/14/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

WH-N01@7'
8/14/2023 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.23	0.499	meq/L	10	[CALC]	KAP	08/15/2023	08/16/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	2.01	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.92		pH Units	1	B3H1510	HJD	08/15/2023	08/16/2023
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SAR by 20B Saturated Paste

SAR	1.65		SAR	1	B3H1507	KAP	08/15/2023	08/16/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.883	0.00500	mmhos/cm	1	B3H1510	HJD	08/15/2023	08/16/2023
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

FL-B01@6'

8/14/2023 1:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.120	0.0989	mg/L	1	B3H1504	KAP	08/15/2023	08/16/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H1432	ZZZ	08/14/2023	08/14/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	95.3 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H1431	HKS	08/14/2023	08/14/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

FL-B01@6'

8/14/2023 1:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308351-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.604	0.499	meq/L	10	[CALC]	KAP	08/15/2023	08/16/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.49	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.35		pH Units	1	B3H1510	HJD	08/15/2023	08/16/2023
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SAR by 20B Saturated Paste

SAR	2.27		SAR	1	B3H1507	KAP	08/15/2023	08/16/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.286	0.00500	mmhos/cm	1	B3H1510	HJD	08/15/2023	08/16/2023
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

FL-B02@4'

8/14/2023 3:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.103	0.0991	mg/L	1	B3H1504	KAP	08/15/2023	08/16/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3H1432	ZZZ	08/14/2023	08/14/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	95.7 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3H1431	HKS	08/14/2023	08/14/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

FL-B02@4'

8/14/2023 3:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.578	0.499	meq/L	10	[CALC]	KAP	08/15/2023	08/16/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.65		pH Units	1	B3H1510	HJD	08/15/2023	08/16/2023
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SAR by 20B Saturated Paste

SAR	0.341		SAR	1	B3H1507	KAP	08/15/2023	08/16/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.105	0.00500	mmhos/cm	1	B3H1510	HJD	08/15/2023	08/16/2023
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

WH-BG01@3'
8/14/2023 2:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.334	0.0992	mg/L	1	B3H1504	KAP	08/15/2023	08/16/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	6.21	0.499	meq/L	10	[CALC]	KAP	08/15/2023	08/16/2023	
Magnesium	2.49	0.823	"	"	"	KAP	"	"	
Sodium	8.84	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.05		pH Units	1	B3H1510	HJD	08/15/2023	08/16/2023	
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SAR by 20B Saturated Paste

SAR	4.24		SAR	1	B3H1507	KAP	08/15/2023	08/16/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.63	0.00500	mmhos/cm	1	B3H1510	HJD	08/15/2023	08/16/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

WH-BG01@6'
8/14/2023 2:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.364	0.100	mg/L	1	B3H1504	KAP	08/15/2023	08/16/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.43	0.499	meq/L	10	[CALC]	KAP	08/15/2023	08/16/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	6.91	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.24		pH Units	1	B3H1510	HJD	08/15/2023	08/16/2023
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SAR by 20B Saturated Paste

SAR	6.65		SAR	1	B3H1507	KAP	08/15/2023	08/16/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.956	0.00500	mmhos/cm	1	B3H1510	HJD	08/15/2023	08/16/2023
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

WH-BG02@3'
8/14/2023 2:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.553	0.0988	mg/L	1	B3H1504	KAP	08/15/2023	08/16/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	6.73	0.499	meq/L	10	[CALC]	KAP	08/15/2023	08/16/2023	
Magnesium	3.56	0.823	"	"	"	KAP	"	"	
Sodium	12.6	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.02		pH Units	1	B3H1510	HJD	08/15/2023	08/16/2023	
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SAR by 20B Saturated Paste

SAR	5.55		SAR	1	B3H1507	KAP	08/15/2023	08/16/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.25	0.00500	mmhos/cm	1	B3H1510	HJD	08/15/2023	08/16/2023	
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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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

WH-BG02@6'

8/14/2023 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.413	0.0995	mg/L	1	B3H1504	KAP	08/15/2023	08/16/2023
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Metals by Saturated Paste by EPA 6010

Calcium	2.97	0.499	meq/L	10	[CALC]	KAP	08/15/2023	08/16/2023
Magnesium	1.51	0.823	"	"	"	KAP	"	"
Sodium	10.5	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.16		pH Units	1	B3H1510	HJD	08/15/2023	08/16/2023
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SAR by 20B Saturated Paste

SAR	7.01		SAR	1	B3H1507	KAP	08/15/2023	08/16/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.53	0.00500	mmhos/cm	1	B3H1510	HJD	08/15/2023	08/16/2023
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

WH-BG03@3'
8/14/2023 2:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.227	0.100	mg/L	1	B3H1504	KAP	08/15/2023	08/16/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	4.21	0.499	meq/L	10	[CALC]	KAP	08/15/2023	08/16/2023	
Magnesium	1.93	0.823	"	"	"	KAP	"	"	
Sodium	9.18	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.12		pH Units	1	B3H1510	HJD	08/15/2023	08/16/2023	
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SAR by 20B Saturated Paste

SAR	5.24		SAR	1	B3H1507	KAP	08/15/2023	08/16/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.55	0.00500	mmhos/cm	1	B3H1510	HJD	08/15/2023	08/16/2023	
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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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

WH-BG03@6'
8/14/2023 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308351-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.317	0.0981	mg/L	1	B3H1504	KAP	08/15/2023	08/16/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	8.24	0.499	meq/L	10	[CALC]	KAP	08/15/2023	08/16/2023	
Magnesium	3.56	0.823	"	"	"	KAP	"	"	
Sodium	15.4	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.03		pH Units	1	B3H1510	HJD	08/15/2023	08/16/2023	
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SAR by 20B Saturated Paste

SAR	6.35		SAR	1	B3H1507	KAP	08/15/2023	08/16/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.70	0.00500	mmhos/cm	1	B3H1510	HJD	08/15/2023	08/16/2023	
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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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

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 B3H1431 - EPA 5030 (soil)

Blank (B3H1431-BLK1)

Prepared: 08/14/2023 Analyzed: 08/14/2023

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	0.13		"	0.125	108		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	112		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

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 B3H1431 - EPA 5030 (soil)

LCS (B3H1431-BS1)

Prepared: 08/14/2023 Analyzed: 08/14/2023

1,2,4-Trimethylbenzene	0.0944	0.00200	mg/kg	0.100		94.4	70-130			
1,3,5-Trimethylbenzene	0.0987	0.00200	"	0.100		98.7	70-130			
Benzene	0.0988	0.00200	"	0.100		98.8	70-130			
Ethylbenzene	0.0910	0.00200	"	0.100		91.0	70-130			
Naphthalene	0.0805	0.00380	"	0.100		80.5	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.0819	0.00200	"	0.100		81.9	70-130			
m,p-Xylene	0.175	0.00400	"	0.200		87.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.8	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

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 B3H1431 - EPA 5030 (soil)

Matrix Spike (B3H1431-MS1)	Source: Y308351-01			Prepared: 08/14/2023 Analyzed: 08/14/2023						
1,2,4-Trimethylbenzene	0.0945	0.00200	mg/kg	0.100	ND	94.5	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0960	0.00200	"	0.100	ND	96.0	70-130			
Ethylbenzene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
Naphthalene	0.0861	0.00380	"	0.100	ND	86.1	70-130			
Toluene	0.0997	0.00200	"	0.100	ND	99.7	70-130			
o-Xylene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
m,p-Xylene	0.176	0.00400	"	0.200	ND	87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

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 B3H1431 - EPA 5030 (soil)

Matrix Spike Dup (B3H1431-MSD1)	Source: Y308351-01			Prepared: 08/14/2023 Analyzed: 08/14/2023						
1,2,4-Trimethylbenzene	0.0862	0.00200	mg/kg	0.100	ND	86.2	70-130	9.18	20	
1,3,5-Trimethylbenzene	0.0916	0.00200	"	0.100	ND	91.6	70-130	9.49	20	
Benzene	0.0956	0.00200	"	0.100	ND	95.6	70-130	0.417	20	
Ethylbenzene	0.0846	0.00200	"	0.100	ND	84.6	70-130	9.20	20	
Naphthalene	0.0886	0.00380	"	0.100	ND	88.6	70-130	2.89	20	
Toluene	0.0967	0.00200	"	0.100	ND	96.7	70-130	3.07	20	
o-Xylene	0.0764	0.00200	"	0.100	ND	76.4	70-130	9.69	20	
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.7	70-130	9.83	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.0	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

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 B3H1432 - EPA 3550B										
Blank (B3H1432-BLK1)										
					Prepared: 08/14/2023 Analyzed: 08/14/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.6	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

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 B3H1432 - EPA 3550B										
LCS (B3H1432-BS1)					Prepared: 08/14/2023 Analyzed: 08/14/2023					
Diesel (C10-C28)	981	50.0	mg/kg	1000		98.1	70-130			
Residual Range Organics (C28-C40)	961	200	"	1000		96.1	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.8	50-150			

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

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 B3H1432 - EPA 3550B

Matrix Spike (B3H1432-MS1)	Source: Y308351-01			Prepared: 08/14/2023 Analyzed: 08/14/2023						
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130			
Residual Range Organics (C28-C40)	925	200	"	1000	ND	92.5	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

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 B3H1432 - EPA 3550B										
Matrix Spike Dup (B3H1432-MSD1)		Source: Y308351-01								
					Prepared: 08/14/2023	Analyzed: 08/14/2023				
Diesel (C10-C28)	880	50.0	mg/kg	1000	ND	88.0	70-130	6.55	35	
Residual Range Organics (C28-C40)	863	200	"	1000	ND	86.3	70-130	6.96	35	
Surrogate: o-Terphenyl	50		"	49.8		99.8	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

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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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 B3H1504 - DTPA Sorbitol Preparation

Blank (B3H1504-BLK1)

Prepared: 08/15/2023 Analyzed: 08/16/2023

Boron ND 0.100 mg/L

Duplicate (B3H1504-DUP1)

Source: Y308345-16

Prepared: 08/15/2023 Analyzed: 08/16/2023

Boron 1.32 0.0994 mg/L 1.75 28.4 50

Batch B3H1507 - Saturated Paste Metals

Blank (B3H1507-BLK1)

Prepared: 08/15/2023 Analyzed: 08/16/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3H1507-DUP1)

Source: Y308345-16

Prepared: 08/15/2023 Analyzed: 08/16/2023

SAR 0.00 SAR 0.375 200 200

Calcium PPM 154 10.0 mg/L 116 28.2 50

Magnesium PPM 44.7 10.0 " 31.4 34.8 50

Sodium PPM 20.4 10.0 " 17.6 14.4 50

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Brandel 5-14A

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H1510 - Saturated Paste pH/EC										
Blank (B3H1510-BLK1)					Prepared: 08/15/2023 Analyzed: 08/16/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H1510-DUP1)		Source: Y308345-16			Prepared: 08/15/2023 Analyzed: 08/16/2023					
Specific Conductance (EC)	1.38	0.00500	mmhos/cm		1.03			29.2	25	QR-DUP
pH	8.04		pH Units		8.03			0.124	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Brandel 5-14A

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.

Jordan A. Bynon, Project Manager



May 29, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Breen 6-14

Project Number - [none]

Attached are your analytical results for KMG - Breen 6-14 received by Origins Laboratory, Inc. May 14, 2024. This project is associated with Origins project number Y405435-01.

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

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

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

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

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

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



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

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-BG01@3'	Y405435-01	Soil	May 14, 2024 11:26	05/14/2024 15:20
WH-BG01@6'	Y405435-02	Soil	May 14, 2024 11:28	05/14/2024 15:20
WH-BG02@3'	Y405435-03	Soil	May 14, 2024 11:30	05/14/2024 15:20
WH-BG02@6'	Y405435-04	Soil	May 14, 2024 11:32	05/14/2024 15:20
WH-BG03@3'	Y405435-05	Soil	May 14, 2024 11:34	05/14/2024 15:20
WH-BG03@6'	Y405435-06	Soil	May 14, 2024 11:36	05/14/2024 15:20
WH-BG04@3'	Y405435-07	Soil	May 14, 2024 11:38	05/14/2024 15:20
WH-BG04@6'	Y405435-08	Soil	May 14, 2024 11:40	05/14/2024 15:20
WH-B01@6'	Y405435-09	Soil	May 14, 2024 11:42	05/14/2024 15:20
FL-B01@4'	Y405435-10	Soil	May 14, 2024 11:44	05/14/2024 15:20

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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



Initial

4405435

www.originslaboratory.com

page 1 of 1

Client: Eagle Environmental (LVI)
 Address: 8000 W 44th Ave
Wheat Ridge CO 80033
 Telephone Number: 303 433 0479
 Email Address: D.coloccia@eagle-environment.com
 Project Manager: Dan Coloccia
 Project Name: Breen 6-14
 Project Number: 4405435
 Samples Collected By: JN

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	EC/SAR	PH		Bach
WH-B501e3'	5/14/14	11:26	2	X				X				X	X	X	
WH-B501e6'		11:28	1												
WH-B502e3'		11:30	1												
WH-B502e6'		11:31	1												
WH-B503e3'		11:34	1												
WH-B503e6'		11:36	1												
WH-B504e3'		11:38	1												
WH-B504e6'		11:40	1												
WH-B501e6'		11:41	3												
WH-B501e4'		11:44	3												
Relinquished By: <u>Juan Pineda</u>	Date: <u>5/14/14</u>	Time: <u>1520</u>	Received By: <u>CAF</u>	Date: <u>5/14/24</u>	Time: <u>1520</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard									

Temp Received: 6

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4405435

Client: Eagle
 Client Project ID: Breen 6-14

Checklist Completed by: EHO

Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 5/14/12

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

Cooler Number/Temperature: 116 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: 7005

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"/>			
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.

EHO
 Reviewed by (Project Manager)

5/14/12
 Date/Time Reviewed

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG01@3'
5/14/2024 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.646		0.100	mg/L	1	B4E1510	05/15/2024	05/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.08		0.499	meq/L	10	[CALC]	05/15/2024	05/16/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.65		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B4E1515	05/15/2024	05/16/2024	
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SAR by 20B Saturated Paste

SAR	7.54		0.0100	SAR	1	B4E1504	05/15/2024	05/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.844		0.00500	mmhos/cm	1	B4E1515	05/15/2024	05/16/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.54		0.262	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Barium	76.9		9.02	"	"	"	"	"	
Cadmium	ND		0.0902	"	"	"	"	"	Ua
Copper	ND		9.02	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG01@3'

5/14/2024 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-01 (Soil)

Table 915 metals by EPA 6020B

Lead	6.39		0.902	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Nickel	7.09		0.902	"	"	"	"	"	
Selenium	ND		0.234	"	"	"	"	"	Ua
Silver	ND		0.0902	"	"	"	"	"	Ua
Zinc	33.7		33.4	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.144	0.360	mg/kg dry	1	2617123	05/25/2024	05/28/2024	U
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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.

Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG01@6'

5/14/2024 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.84		0.101	mg/L	1	B4E1510	05/15/2024	05/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.74		0.499	meq/L	10	[CALC]	05/15/2024	05/16/2024	
Magnesium	6.30		0.823	"	"	"	"	"	
Sodium	20.6		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.33			pH Units	1	B4E1515	05/15/2024	05/16/2024	
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SAR by 20B Saturated Paste

SAR	8.76		0.0100	SAR	1	B4E1504	05/15/2024	05/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.34		0.00500	mmhos/cm	1	B4E1515	05/15/2024	05/16/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.75		0.269	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Barium	73.7		9.27	"	"	"	"	"	
Cadmium	0.185		0.0927	"	"	"	"	"	
Copper	ND		9.27	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG01@6'

5/14/2024 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-02 (Soil)

Table 915 metals by EPA 6020B

Lead	7.08		0.927	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Nickel	8.14		0.927	"	"	"	"	"	
Selenium	ND		0.241	"	"	"	"	"	Ua
Silver	ND		0.0927	"	"	"	"	"	Ua
Zinc	ND		34.3	"	"	"	"	"	Ua

Total Metals by 7196A

Hexavalent Chromium	ND	0.128	0.320	mg/kg dry	1	2617123	05/25/2024	05/28/2024	U
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG02@3'

5/14/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.87		0.0984	mg/L	1	B4E1510	05/15/2024	05/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	13.0		0.499	meq/L	10	[CALC]	05/15/2024	05/16/2024	
Magnesium	9.02		0.823	"	"	"	"	"	
Sodium	21.4		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.20			pH Units	1	B4E1516	05/15/2024	05/16/2024	
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SAR by 20B Saturated Paste

SAR	6.46		0.0100	SAR	1	B4E1505	05/15/2024	05/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.69		0.00500	mmhos/cm	1	B4E1516	05/15/2024	05/16/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.84		0.264	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Barium	95.0		9.11	"	"	"	"	"	
Cadmium	0.190		0.0911	"	"	"	"	"	
Copper	ND		9.11	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG02@3'

5/14/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-03 (Soil)

Table 915 metals by EPA 6020B

Lead	7.06		0.911	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Nickel	7.52		0.911	"	"	"	"	"	
Selenium	ND		0.237	"	"	"	"	"	Ua
Silver	ND		0.0911	"	"	"	"	"	Ua
Zinc	ND		33.7	"	"	"	"	"	Ua

Total Metals by 7196A

Hexavalent Chromium	ND	0.167	0.417	mg/kg dry	1	2617123	05/25/2024	05/28/2024	U
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG02@6'

5/14/2024 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.97		0.101	mg/L	1	B4E1510	05/15/2024	05/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	12.4		0.499	meq/L	10	[CALC]	05/15/2024	05/16/2024	
Magnesium	18.9		0.823	"	"	"	"	"	
Sodium	45.4		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.16			pH Units	1	B4E1516	05/15/2024	05/16/2024	
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SAR by 20B Saturated Paste

SAR	11.5		0.0100	SAR	1	B4E1505	05/15/2024	05/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.12		0.00500	mmhos/cm	1	B4E1516	05/15/2024	05/16/2024	
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Table 915 metals by EPA 6020B

Arsenic	9.36		0.270	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Barium	661		9.33	"	"	"	"	"	
Cadmium	0.546		0.0933	"	"	"	"	"	
Copper	ND		9.33	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG02@6'

5/14/2024 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-04 (Soil)

Table 915 metals by EPA 6020B

Lead	9.77		0.933	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Nickel	13.1		0.933	"	"	"	"	"	
Selenium	0.286		0.242	"	"	"	"	"	
Silver	ND		0.0933	"	"	"	"	"	Ua
Zinc	44.2		34.5	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.148	0.370	mg/kg dry	1	2617123	05/25/2024	05/28/2024	U
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG03@3'

5/14/2024 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-05 (Soil)

Boron (DTPA Sorbitol)

Boron	2.92		0.0990	mg/L	1	B4E1510	05/15/2024	05/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	22.7		0.499	meq/L	10	[CALC]	05/15/2024	05/16/2024	
Magnesium	42.3		0.823	"	"	"	"	"	
Sodium	66.7		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B4E1516	05/15/2024	05/16/2024	
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SAR by 20B Saturated Paste

SAR	11.7		0.0100	SAR	1	B4E1505	05/15/2024	05/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.68		0.00500	mmhos/cm	1	B4E1516	05/15/2024	05/16/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.89		0.251	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Barium	66.2		8.65	"	"	"	"	"	
Cadmium	0.321		0.0865	"	"	"	"	"	
Copper	16.3		8.65	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG03@3'

5/14/2024 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-05 (Soil)

Table 915 metals by EPA 6020B

Lead	16.2		0.865	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Nickel	28.4		0.865	"	"	"	"	"	
Selenium	0.556		0.225	"	"	"	"	"	
Silver	ND		0.0865	"	"	"	"	"	Ua
Zinc	123		32.0	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.110	0.276	mg/kg dry	1	2617123	05/25/2024	05/28/2024	U
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG03@6'

5/14/2024 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-06 (Soil)

Boron (DTPA Sorbitol)

Boron	2.10		0.101	mg/L	1	B4E1510	05/15/2024	05/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	3.75		0.499	meq/L	10	[CALC]	05/15/2024	05/16/2024	
Magnesium	9.62		0.823	"	"	"	"	"	
Sodium	31.3		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.40			pH Units	1	B4E1516	05/15/2024	05/16/2024	
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SAR by 20B Saturated Paste

SAR	12.1		0.0100	SAR	1	B4E1505	05/15/2024	05/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.54		0.00500	mmhos/cm	1	B4E1516	05/15/2024	05/16/2024	
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Table 915 metals by EPA 6020B

Arsenic	8.69		0.267	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Barium	125		9.22	"	"	"	"	"	
Cadmium	0.384		0.0922	"	"	"	"	"	
Copper	9.62		9.22	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG03@6'

5/14/2024 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-06 (Soil)

Table 915 metals by EPA 6020B

Lead	8.71		0.922	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Nickel	11.9		0.922	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	Ua
Silver	ND		0.0922	"	"	"	"	"	Ua
Zinc	35.7		34.1	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.128	0.320	mg/kg dry	1	2617123	05/25/2024	05/28/2024	U
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG04@3'

5/14/2024 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.739		0.0991	mg/L	1	B4E1510	05/15/2024	05/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.26		0.499	meq/L	10	[CALC]	05/15/2024	05/16/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.10		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.42			pH Units	1	B4E1516	05/15/2024	05/16/2024	
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SAR by 20B Saturated Paste

SAR	6.27		0.0100	SAR	1	B4E1505	05/15/2024	05/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.833		0.00500	mmhos/cm	1	B4E1516	05/15/2024	05/16/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.85		0.265	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Barium	83.2		9.13	"	"	"	"	"	
Cadmium	0.0932		0.0913	"	"	"	"	"	
Copper	ND		9.13	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG04@3'

5/14/2024 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-07 (Soil)

Table 915 metals by EPA 6020B

Lead	5.34		0.913	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Nickel	6.21		0.913	"	"	"	"	"	
Selenium	ND		0.237	"	"	"	"	"	Ua
Silver	ND		0.0913	"	"	"	"	"	Ua
Zinc	ND		33.8	"	"	"	"	"	Ua

Total Metals by 7196A

Hexavalent Chromium	ND	0.139	0.347	mg/kg dry	1	2617123	05/25/2024	05/28/2024	U
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG04@6'

5/14/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.72		0.0996	mg/L	1	B4E1510	05/15/2024	05/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	23.1		0.499	meq/L	10	[CALC]	05/15/2024	05/16/2024	
Magnesium	29.9		0.823	"	"	"	"	"	
Sodium	31.0		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.05			pH Units	1	B4E1516	05/15/2024	05/16/2024	
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SAR by 20B Saturated Paste

SAR	6.02		0.0100	SAR	1	B4E1505	05/15/2024	05/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.59		0.00500	mmhos/cm	1	B4E1516	05/15/2024	05/16/2024	
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Table 915 metals by EPA 6020B

Arsenic	23.2		0.264	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Barium	116		9.09	"	"	"	"	"	
Cadmium	0.446		0.0909	"	"	"	"	"	
Copper	10.3		9.09	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-BG04@6'

5/14/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-08 (Soil)

Table 915 metals by EPA 6020B

Lead	11.0		0.909	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Nickel	10.2		0.909	"	"	"	"	"	
Selenium	0.330		0.236	"	"	"	"	"	
Silver	ND		0.0909	"	"	"	"	"	Ua
Zinc	49.8		33.6	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.161	0.401	mg/kg dry	1	2617123	05/25/2024	05/28/2024	U
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-B01@6'

5/14/2024 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-09 (Soil)

Boron (DTPA Sorbitol)

Boron	1.98		0.100	mg/L	1	B4E1510	05/15/2024	05/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E1438	05/14/2024	05/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	97.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E1442	05/14/2024	05/14/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

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



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-B01@6'

5/14/2024 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.4 %		70-130			B4E14 42	05/14/2024	05/14/2024	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	27.9	0.499	meq/L	10	[CALC]		05/15/2024	05/16/2024	
Magnesium	5.02	0.823	"	"	"		"	"	
Sodium	22.7	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E1440		05/14/2024	05/14/2024	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 (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua
Fluoranthene	ND	0.020	"	"	"		"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-B01@6'

5/14/2024 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-09 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E1440	05/14/2024	05/14/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.1 %		60-130			"	"	"	

pH in Soil by 9045D

pH	9.32			pH Units	1	B4E1516	05/15/2024	05/16/2024	
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SAR by 20B Saturated Paste

SAR	5.59		0.0100	SAR	1	B4E1505	05/15/2024	05/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.58		0.00500	mmhos/cm	1	B4E1516	05/15/2024	05/16/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

WH-B01@6'

5/14/2024 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-09 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.07	0.288	0.288	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Barium	303	9.94	9.94	"	"	"	"	"	
Cadmium	0.276	0.0994	0.0994	"	"	"	"	"	
Copper	10.4	9.94	9.94	"	"	"	"	"	
Lead	13.2	0.994	0.994	"	"	"	"	"	
Nickel	12.2	0.994	0.994	"	"	"	"	"	
Selenium	0.432	0.258	0.258	"	"	"	"	"	
Silver	ND	0.0994	0.0994	"	"	"	"	"	Ua
Zinc	47.9	36.8	36.8	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.162	0.406	mg/kg dry	1	2617123	05/25/2024	05/28/2024	U
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

FL-B01@4'

5/14/2024 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.527		0.0996	mg/L	1	B4E1510	05/15/2024	05/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E1438	05/14/2024	05/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	98.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E1442	05/14/2024	05/14/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

FL-B01@4'

5/14/2024 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405435-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.1 %		70-130			B4E14 42	05/14/2024	05/14/2024	
Surrogate: 4-Bromofluorobenzene	108 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.72	0.499	meq/L	10	[CALC]		05/15/2024	05/16/2024	
Magnesium	1.12	0.823	"	"	"		"	"	
Sodium	3.78	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E1440		05/14/2024	05/14/2024	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 (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua
Fluoranthene	ND	0.020	"	"	"		"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

FL-B01@4'

5/14/2024 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405435-10 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E1440	05/14/2024	05/14/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	110 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.2 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.41			pH Units	1	B4E1516	05/15/2024	05/16/2024	
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SAR by 20B Saturated Paste

SAR	2.73		0.0100	SAR	1	B4E1505	05/15/2024	05/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.939		0.00500	mmhos/cm	1	B4E1516	05/15/2024	05/16/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

FL-B01@4'

5/14/2024 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405435-10 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.20	0.272	mg/kg	10	B4E1439	05/14/2024	05/15/2024	
Barium	97.8	9.37	"	"	"	"	"	
Cadmium	0.179	0.0937	"	"	"	"	"	
Copper	ND	9.37	"	"	"	"	"	Ua
Lead	14.2	0.937	"	"	"	"	"	
Nickel	8.70	0.937	"	"	"	"	"	
Selenium	ND	0.244	"	"	"	"	"	Ua
Silver	ND	0.0937	"	"	"	"	"	Ua
Zinc	45.9	34.7	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.130	0.325	mg/kg dry	1	2617123	05/25/2024	05/28/2024	U
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1438 - EPA 3550B										
Blank (B4E1438-BLK1)										
					Prepared: 05/14/2024 Analyzed: 05/15/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1438 - EPA 3550B

LCS (B4E1438-BS1)

Prepared: 05/14/2024 Analyzed: 05/15/2024

Diesel (C10-C28)	899	50.0	mg/kg	1000		89.9	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1438 - EPA 3550B										
Matrix Spike (B4E1438-MS1)		Source: Y405431-01			Prepared: 05/14/2024 Analyzed: 05/15/2024					
Diesel (C10-C28)	866	50.0	mg/kg	1000	ND	86.6	70-130			
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1438 - EPA 3550B										
Matrix Spike Dup (B4E1438-MSD1)					Source: Y405431-01					Prepared: 05/14/2024 Analyzed: 05/15/2024
Diesel (C10-C28)	862	50.0	mg/kg	1000	ND	86.2	70-130	0.371	35	
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	70-130	2.17	35	
Surrogate: o-Terphenyl	50		"	49.8		99.9	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1442 - EPA 5030 (soil)										
Blank (B4E1442-BLK1)										
					Prepared: 05/14/2024 Analyzed: 05/14/2024					
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		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1442 - EPA 5030 (soil)

LCS (B4E1442-BS1)

Prepared: 05/14/2024 Analyzed: 05/14/2024

1,2,4-Trimethylbenzene	0.117	0.00200	mg/kg	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Naphthalene	0.125	0.00380	"	0.100		125	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.116	0.00200	"	0.100		116	70-130			
m,p-Xylene	0.225	0.00400	"	0.200		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1442 - EPA 5030 (soil)

Matrix Spike (B4E1442-MS1)	Source: Y405431-01			Prepared: 05/14/2024 Analyzed: 05/14/2024						
1,2,4-Trimethylbenzene	0.0943	0.00200	mg/kg	0.100	ND	94.3	70-130			
1,3,5-Trimethylbenzene	0.0933	0.00200	"	0.100	ND	93.3	70-130			
Benzene	0.0896	0.00200	"	0.100	ND	89.6	70-130			
Ethylbenzene	0.0918	0.00200	"	0.100	ND	91.8	70-130			
Naphthalene	0.0975	0.00380	"	0.100	0.00102	96.5	70-130			
Toluene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
o-Xylene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1442 - EPA 5030 (soil)

Matrix Spike Dup (B4E1442-MSD1)	Source: Y405431-01			Prepared: 05/14/2024 Analyzed: 05/14/2024						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	7.36	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	7.69	20	
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130	8.24	20	
Ethylbenzene	0.0995	0.00200	"	0.100	ND	99.5	70-130	8.11	20	
Naphthalene	0.110	0.00380	"	0.100	0.00102	109	70-130	12.3	20	
Toluene	0.0963	0.00200	"	0.100	ND	96.3	70-130	10.1	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	7.21	20	
m,p-Xylene	0.196	0.00400	"	0.200	ND	98.1	70-130	8.07	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1439 - EPA 3050B

Blank (B4E1439-BLK1)

Prepared: 05/14/2024 Analyzed: 05/15/2024

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

LCS (B4E1439-BS1)

Prepared: 05/14/2024 Analyzed: 05/15/2024

Arsenic	5.04	0.290	mg/kg	5.00		101	80-120
Barium	485	10.0	"	500		97.1	80-120
Cadmium	5.08	0.100	"	5.00		102	80-120
Copper	46.8	10.0	"	50.0		93.5	80-120
Lead	4.78	1.00	"	5.00		95.6	80-120
Nickel	4.96	1.00	"	5.00		99.3	80-120
Selenium	9.21	0.260	"	9.50		97.0	80-120
Silver	5.18	0.100	"	5.00		104	80-120
Zinc	49.2	37.0	"	50.0		98.4	80-120

Matrix Spike (B4E1439-MS1)

Source: Y405433-01

Prepared: 05/14/2024 Analyzed: 05/15/2024

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1439 - EPA 3050B

Matrix Spike (B4E1439-MS1)		Source: Y405433-01			Prepared: 05/14/2024 Analyzed: 05/15/2024					
Arsenic	7.64	0.265	mg/kg	4.57	3.07	99.8	75-125			
Barium	547	9.15	"	457	80.0	102	75-125			
Cadmium	4.86	0.0915	"	4.57	0.110	104	75-125			
Copper	47.9	9.15	"	45.7	3.51	97.0	75-125			
Lead	10.1	0.915	"	4.57	6.24	84.5	75-125			
Nickel	9.91	0.915	"	4.57	6.59	72.6	75-125			QM-07
Selenium	8.76	0.238	"	8.69	0.0442	100	75-125			
Silver	4.82	0.0915	"	4.57	0.0192	105	75-125			
Zinc	70.3	33.8	"	45.7	26.0	96.9	75-125			

Matrix Spike Dup (B4E1439-MSD1)		Source: Y405433-01			Prepared: 05/14/2024 Analyzed: 05/15/2024					
Arsenic	7.79	0.253	mg/kg	4.35	3.07	108	75-125	1.98	20	
Barium	545	8.71	"	435	80.0	107	75-125	0.254	20	
Cadmium	4.93	0.0871	"	4.35	0.110	111	75-125	1.60	20	
Copper	49.9	8.71	"	43.5	3.51	107	75-125	4.19	20	
Lead	10.6	0.871	"	4.35	6.24	99.1	75-125	4.38	20	
Nickel	10.5	0.871	"	4.35	6.59	89.0	75-125	5.46	20	
Selenium	8.63	0.226	"	8.27	0.0442	104	75-125	1.42	20	
Silver	4.95	0.0871	"	4.35	0.0192	113	75-125	2.53	20	
Zinc	75.5	32.2	"	43.5	26.0	114	75-125	7.05	20	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1440 - EPA 3580

Blank (B4E1440-BLK1)

Prepared: 05/14/2024 Analyzed: 05/14/2024

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		97.0	60-130			
Surrogate: Anthracene-d10	180		"	200		91.6	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.6	60-130			

LCS (B4E1440-BS1)

Prepared: 05/14/2024 Analyzed: 05/14/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200		93.0	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.6	70-130			
Acenaphthene	0.187	0.020	"	0.200		93.4	70-130			
Anthracene	0.179	0.020	"	0.200		89.5	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1440 - EPA 3580

LCS (B4E1440-BS1)

Prepared: 05/14/2024 Analyzed: 05/14/2024

Benzo (a) anthracene	0.182	0.005	mg/kg	0.200		91.0	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200		94.8	70-130			
Benzo (b) fluoranthene	0.202	0.020	"	0.200		101	70-130			
Benzo (g,h,i) perylene	0.172	0.020	"	0.200		86.0	70-130			
Benzo (k) fluoranthene	0.184	0.020	"	0.200		92.1	70-130			
Chrysene	0.185	0.020	"	0.200		92.6	70-130			
Dibenz (a,h) anthracene	0.143	0.020	"	0.200		71.7	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.3	70-130			
Fluorene	0.192	0.020	"	0.200		95.9	70-130			
Indeno (1,2,3-cd) pyrene	0.156	0.020	"	0.200		77.9	70-130			
Naphthalene	0.188	0.002	"	0.200		94.2	70-130			
Phenanthrene	0.182	0.020	"	0.200		91.0	70-130			
Pyrene	0.196	0.020	"	0.200		97.8	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.6	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

Matrix Spike (B4E1440-MS1)

Source: Y405435-09

Prepared: 05/14/2024 Analyzed: 05/14/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.001	95.7	70-130			
2-Methylnaphthalene	0.193	0.002	"	0.200	0.0009	96.0	70-130			
Acenaphthene	0.186	0.020	"	0.200	0.0003	93.0	70-130			
Anthracene	0.183	0.020	"	0.200	ND	91.3	70-130			
Benzo (a) anthracene	0.183	0.005	"	0.200	0.0006	91.2	70-130			
Benzo (a) pyrene	0.177	0.020	"	0.200	0.003	87.2	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.001	97.6	70-130			
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	0.007	82.3	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1440 - EPA 3580

Matrix Spike (B4E1440-MS1)		Source: Y405435-09			Prepared: 05/14/2024 Analyzed: 05/14/2024					
Benzo (k) fluoranthene	0.167	0.020	mg/kg	0.200	0.002	82.6	70-130			
Chrysene	0.190	0.020	"	0.200	0.001	94.5	70-130			
Dibenz (a,h) anthracene	0.154	0.020	"	0.200	0.016	68.6	70-130			QM-07
Fluoranthene	0.188	0.020	"	0.200	ND	93.9	70-130			
Fluorene	0.192	0.020	"	0.200	0.001	95.4	70-130			
Indeno (1,2,3-cd) pyrene	0.161	0.020	"	0.200	0.007	76.7	70-130			
Naphthalene	0.187	0.002	"	0.200	ND	93.5	70-130			
Phenanthrene	0.180	0.020	"	0.200	0.001	89.1	70-130			
Pyrene	0.199	0.020	"	0.200	ND	99.3	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		94.9	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.0	60-130			

Matrix Spike Dup (B4E1440-MSD1)		Source: Y405435-09			Prepared: 05/14/2024 Analyzed: 05/14/2024					
1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	0.001	98.7	70-130	3.08	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	0.0009	97.5	70-130	1.54	20	
Acenaphthene	0.180	0.020	"	0.200	0.0003	89.7	70-130	3.55	20	
Anthracene	0.168	0.020	"	0.200	ND	83.8	70-130	8.63	20	
Benzo (a) anthracene	0.186	0.005	"	0.200	0.0006	92.6	70-130	1.59	20	
Benzo (a) pyrene	0.191	0.020	"	0.200	0.003	93.9	70-130	7.34	20	
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.001	99.3	70-130	1.76	20	
Benzo (g,h,i) perylene	0.177	0.020	"	0.200	0.007	85.0	70-130	3.16	20	
Benzo (k) fluoranthene	0.179	0.020	"	0.200	0.002	88.2	70-130	6.53	20	
Chrysene	0.183	0.020	"	0.200	0.001	90.7	70-130	4.11	20	
Dibenz (a,h) anthracene	0.153	0.020	"	0.200	0.016	68.3	70-130	0.485	20	QM-07
Fluoranthene	0.203	0.020	"	0.200	ND	101	70-130	7.62	20	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1440 - EPA 3580

Matrix Spike Dup (B4E1440-MSD1)	Source: Y405435-09			Prepared: 05/14/2024 Analyzed: 05/14/2024						
Fluorene	0.180	0.020	mg/kg	0.200	0.001	89.4	70-130	6.40	20	
Indeno (1,2,3-cd) pyrene	0.173	0.020	"	0.200	0.007	82.8	70-130	7.24	20	
Naphthalene	0.189	0.002	"	0.200	ND	94.7	70-130	1.23	20	
Phenanthrene	0.179	0.020	"	0.200	0.001	88.7	70-130	0.433	20	
Pyrene	0.202	0.020	"	0.200	ND	101	70-130	1.46	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	180		"	200		91.3	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 B4E1504 - Saturated Paste Metals

Blank (B4E1504-BLK1)

Prepared: 05/15/2024 Analyzed: 05/16/2024

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

Duplicate (B4E1504-DUP1)

Source: Y405429-02

Prepared: 05/15/2024 Analyzed: 05/16/2024

Calcium PPM	27.9	10.0	mg/L		58.4			70.5	50	QR-DUP
SAR	ND	0.0100	SAR		11.9				200	Ua
Magnesium PPM	23.5	10.0	mg/L		47.5			67.6	50	QR-DUP
Sodium PPM	332	10.0	"		506			41.6	50	

Batch B4E1505 - Saturated Paste Metals

Blank (B4E1505-BLK1)

Prepared: 05/15/2024 Analyzed: 05/16/2024

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

Duplicate (B4E1505-DUP1)

Source: Y405435-03

Prepared: 05/15/2024 Analyzed: 05/16/2024

SAR	ND	0.0100	SAR		6.46				200	Ua
Calcium PPM	270	10.0	mg/L		260			3.64	50	
Magnesium PPM	111	10.0	"		110			1.58	50	
Sodium PPM	492	10.0	"		493			0.0954	50	

Batch B4E1510 - DTPA Sorbitol Preparation

Blank (B4E1510-BLK1)

Prepared: 05/15/2024 Analyzed: 05/16/2024

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E1510 - DTPA Sorbitol Preparation										
Blank (B4E1510-BLK1)					Prepared: 05/15/2024 Analyzed: 05/16/2024					
Boron	ND	0.100	mg/L							Ua
Duplicate (B4E1510-DUP1)					Source: Y405433-06 Prepared: 05/15/2024 Analyzed: 05/16/2024					
Boron	0.497	0.101	mg/L		0.491			1.36	50	

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Dan Coloccia
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 Project: KMG - Breen 6-14

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 B4E1515 - Saturated Paste pH/EC

Blank (B4E1515-BLK1)

Prepared: 05/15/2024 Analyzed: 05/16/2024

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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Duplicate (B4E1515-DUP1)

Source: Y405429-02

Prepared: 05/15/2024 Analyzed: 05/16/2024

pH	8.35		pH Units		8.34			0.120		25
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Specific Conductance (EC)	1.60	0.00500	mmhos/cm		2.23			32.8		25
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Batch B4E1516 - Saturated Paste pH/EC

Blank (B4E1516-BLK1)

Prepared: 05/15/2024 Analyzed: 05/16/2024

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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Duplicate (B4E1516-DUP1)

Source: Y405435-03

Prepared: 05/15/2024 Analyzed: 05/16/2024

pH	8.17		pH Units		8.20			0.367		25
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Specific Conductance (EC)	2.78	0.00500	mmhos/cm		2.69			3.37		25
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Dan Coloccia
 Project Number: [none]
 Project: KMG - Breen 6-14

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 2617123 - SW846 3060A										
BLANK (1205744090-BLK)					Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	ND	0.297	mg/kg				-			U
LCS (1205744091-BKS)					Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	2.70	0.280	mg/kg	2.80		96.4	80-120			
DUP (1205744092 D)					Source: 667784001 Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	ND	0.259	mg/kg dry		<0.103		0-50	N/A	50	U
MS (1205744093 S)					Source: 667784001 Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	1.78	0.259	mg/kg dry	2.59	<0.103	67.3	75-125			
DUP (1205744094 D)					Source: Y405435-03 Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	ND	0.418	mg/kg dry		<0.167		0-50	N/A	50	U
MS (1205744095 S)					Source: Y405435-03 Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	2.92	0.418	mg/kg dry	4.18	<0.167	68.4	75-125			
ILCS (1205744096-ILCS)					Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	6.69	0.324	mg/kg	6.70		99.8	80-120			

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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Breen 6-14

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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