



November 29, 2022

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-12 JI

Project Number - [none]

Attached are your analytical results for KMG - Megan H 16-12 JI received by Origins Laboratory, Inc. November 17, 2022. This project is associated with Origins project number Y211463-01.

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, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-12 JI

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y211463-01	Soil	November 17, 2022 12:36	11/17/2022 16:15
FL-B01@3'	Y211463-02	Soil	November 17, 2022 12:55	11/17/2022 16:15
WH-BG01@6'	Y211463-03	Soil	November 17, 2022 12:49	11/17/2022 16:15
WH-BG01@3'	Y211463-04	Soil	November 17, 2022 12:51	11/17/2022 16:15
WH-BG02@6'	Y211463-05	Soil	November 17, 2022 12:52	11/17/2022 16:15
WH-BG02@3'	Y211463-06	Soil	November 17, 2022 12:54	11/17/2022 16:15
FL-B02@4'	Y211463-07	Soil	November 17, 2022 13:41	11/17/2022 16:15

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.*



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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-12 JI

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

**ORIGINS**  
LABORATORY, INC

Client: Eagle Environmental (KMG)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: d.coloccia@eagle-env.com

Project Manager: D. Coloccia  
Project Name: Megan H 16-12 JI  
Project Number: -  
Samples Collected By: DB

Initial DB www.originslaboratory.com

page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis				Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX	TPH		EC/pH
WH-B01 @ 6'	11/17/22	1230	2							X	X	X	X	X	1
FL-B01 @ 3'		1255								X	X	X	X	X	2
WH-B01 @ 6'		1249								X	X	X	X	X	3
WH-B01 @ 3'		1251								X	X	X	X	X	4
WH-B02 @ 6'		1252								X	X	X	X	X	5
WH-B02 @ 3'		1254								X	X	X	X	X	6
FL-B02 @ 4'	1	1341	1							X	X	X	X	X	7
															8
															9
															10

Relinquished By: Chris Bodie Date: 11/17/22 Time: 1632  
Received By: DB Date: 11/17/22 Time: 1852

Temp Received: 2.0 Date Results Needed

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

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

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

**Sample Receipt Checklist**

Origins Work Order: 4211463 Client: Eagle Environmental  
Client Project ID: Megan H 16-32 JI

Checklist Completed by: TSH/DE Shipped Via: HD  
Date/time completed: 11/17/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply): Y Soil/Solid        Water        Other:         
Cooler Number/Temperature: 1 / 20 °C        /        °C        /        °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 <sup>(1)</sup> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		X		
Additional Comments (if any):				

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

Reviewed by (Project Manager)

11/17/2022  
Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

WH-B01@6'  
11/17/2022 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y211463-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.168	0.0991	mg/L	1	B2K1805	KAP	11/18/2022	11/21/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K1801	ADM	11/18/2022	11/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	85.0 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K1733	JSM	11/17/2022	11/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"

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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-12 JI

WH-B01@6'

11/17/2022 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y211463-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	1.66	0.499	meq/L	10	[CALC]	KAP	11/18/2022	11/22/2022
Magnesium	7.95	0.823	"	"	"	KAP	"	"
Sodium	5.36	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.54		pH Units	1	B2K1819	HJD	11/18/2022	11/22/2022
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**SAR by 20B Saturated Paste**

SAR	2.45		SAR	1	B2K1808	KAP	11/18/2022	11/22/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.782	0.00500	mmhos/cm	1	B2K1815	HJD	11/18/2022	11/22/2022
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Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

FL-B01@3'  
11/17/2022 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y211463-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0985	mg/L	1	B2K1805	KAP	11/18/2022	11/21/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K1801	ADM	11/18/2022	11/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	77.7 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K1733	JSM	11/17/2022	11/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

FL-B01@3'

11/17/2022 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y211463-02 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	4.99	0.499	meq/L	10	[CALC]	KAP	11/18/2022	11/22/2022
Magnesium	1.98	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.34		pH Units	1	B2K1819	HJD	11/18/2022	11/22/2022
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**SAR by 20B Saturated Paste**

SAR	0.0585		SAR	1	B2K1808	KAP	11/18/2022	11/22/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.720	0.00500	mmhos/cm	1	B2K1815	HJD	11/18/2022	11/22/2022
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Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

WH-BG01@6'

11/17/2022 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y211463-03 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.264	0.0995	mg/L	1	B2K1805	KAP	11/18/2022	11/21/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	2.39	0.499	meq/L	10	[CALC]	KAP	11/18/2022	11/22/2022
Magnesium	1.99	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.37		pH Units	1	B2K1819	HJD	11/18/2022	11/22/2022
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## SAR by 20B Saturated Paste

SAR	0.189		SAR	1	B2K1808	KAP	11/18/2022	11/22/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.484	0.00500	mmhos/cm	1	B2K1815	HJD	11/18/2022	11/22/2022
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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

**WH-BG01@3'****11/17/2022 12:51:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
Y211463-04 (Soil)****Boron (DTPA Sorbitol)**

Boron	0.119	0.0999	mg/L	1	B2K1805	KAP	11/18/2022	11/21/2022
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.42	0.499	meq/L	10	[CALC]	KAP	11/18/2022	11/22/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.37		pH Units	1	B2K1819	HJD	11/18/2022	11/22/2022
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**SAR by 20B Saturated Paste**

SAR	0.0943		SAR	1	B2K1808	KAP	11/18/2022	11/22/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.265	0.00500	mmhos/cm	1	B2K1815	HJD	11/18/2022	11/22/2022
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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-12 JI

**WH-BG02@6'****11/17/2022 12:52:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y211463-05 (Soil)****Boron (DTPA Sorbitol)**

Boron	0.669	0.0985	mg/L	1	B2K1805	KAP	11/18/2022	11/21/2022
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.613	0.499	meq/L	10	[CALC]	KAP	11/18/2022	11/22/2022
Magnesium	3.31	0.823	"	"	"	KAP	"	"
Sodium	0.556	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.23		pH Units	1	B2K1819	HJD	11/18/2022	11/22/2022
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**SAR by 20B Saturated Paste**

SAR	0.397		SAR	1	B2K1808	KAP	11/18/2022	11/22/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.442	0.00500	mmhos/cm	1	B2K1815	HJD	11/18/2022	11/22/2022
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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

WH-BG02@3'

11/17/2022 12:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y211463-06 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.426	0.0994	mg/L	1	B2K1805	KAP	11/18/2022	11/21/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	2.10	0.499	meq/L	10	[CALC]	KAP	11/18/2022	11/22/2022
Magnesium	1.53	0.823	"	"	"	KAP	"	"
Sodium	0.573	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.39		pH Units	1	B2K1819	HJD	11/18/2022	11/22/2022
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## SAR by 20B Saturated Paste

SAR	0.425		SAR	1	B2K1808	KAP	11/18/2022	11/22/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.409	0.00500	mmhos/cm	1	B2K1815	HJD	11/18/2022	11/22/2022
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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

FL-B02@4'

11/17/2022 1:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y211463-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.110	0.0995	mg/L	1	B2K1805	KAP	11/18/2022	11/21/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K1801	ADM	11/18/2022	11/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	88.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K1733	JSM	11/17/2022	11/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	105 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

FL-B02@4'

11/17/2022 1:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y211463-07 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	1.01	0.499	meq/L	10	[CALC]	KAP	11/18/2022	11/22/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.507	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.36		pH Units	1	B2K1819	HJD	11/18/2022	11/22/2022
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**SAR by 20B Saturated Paste**

SAR	0.597		SAR	1	B2K1808	KAP	11/18/2022	11/22/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.199	0.00500	mmhos/cm	1	B2K1815	HJD	11/18/2022	11/22/2022
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Origins Laboratory, Inc.



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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2K1733 - EPA 5030 (soil)</b>										
<b>Blank (B2K1733-BLK1)</b>					Prepared: 11/17/2022 Analyzed: 11/17/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.3		70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2K1733 - EPA 5030 (soil)</b>										
<b>LCS (B2K1733-BS1)</b>					Prepared: 11/17/2022 Analyzed: 11/17/2022					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.121	0.00380	"	0.100		121	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.209	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

**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 B2K1733 - EPA 5030 (soil)**

Matrix Spike (B2K1733-MS1)		Source: Y211463-01			Prepared: 11/17/2022 Analyzed: 11/17/2022					
1,2,4-Trimethylbenzene	0.0836	0.00200	mg/kg	0.100	ND	83.6	70-130			
1,3,5-Trimethylbenzene	0.0844	0.00200	"	0.100	ND	84.4	70-130			
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
Ethylbenzene	0.0916	0.00200	"	0.100	ND	91.6	70-130			
Naphthalene	0.0935	0.00380	"	0.100	ND	93.5	70-130			
Toluene	0.0954	0.00200	"	0.100	ND	95.4	70-130			
o-Xylene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2K1733 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2K1733-MSD1)</b>		<b>Source: Y211463-01</b>			Prepared: 11/17/2022 Analyzed: 11/17/2022					
1,2,4-Trimethylbenzene	0.0912	0.00200	mg/kg	0.100	ND	91.2	70-130	8.72	20	
1,3,5-Trimethylbenzene	0.0901	0.00200	"	0.100	ND	90.1	70-130	6.55	20	
Benzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	0.349	20	
Ethylbenzene	0.0968	0.00200	"	0.100	ND	96.8	70-130	5.54	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	9.85	20	
Toluene	0.0969	0.00200	"	0.100	ND	96.9	70-130	1.48	20	
o-Xylene	0.0959	0.00200	"	0.100	ND	95.9	70-130	5.20	20	
m,p-Xylene	0.192	0.00400	"	0.200	ND	95.8	70-130	5.81	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-12 JI

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2K1801 - EPA 3580</b>										
<b>Blank (B2K1801-BLK1)</b>					Prepared: 11/18/2022 Analyzed: 11/18/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.6	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-12 JI

## 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 B2K1801 - EPA 3580

### LCS (B2K1801-BS1)

Prepared: 11/18/2022 Analyzed: 11/18/2022

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	896	200	"	1000		89.6	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.4	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-12 JI

## 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 B2K1801 - EPA 3580

LCS Dup (B2K1801-BSD1)

Prepared: 11/18/2022 Analyzed: 11/18/2022

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130	0.309	35	
Residual Range Organics (C28-C40)	911	200	"	1000		91.1	70-130	1.61	35	
Surrogate: o-Terphenyl	45		"	49.8		90.2	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

## 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 B2K1805 - DTPA Sorbitol Preparation

##### Blank (B2K1805-BLK1)

Prepared: 11/18/2022 Analyzed: 11/21/2022

Boron ND 0.100 mg/L

##### Duplicate (B2K1805-DUP1)

Source: Y211446-04

Prepared: 11/18/2022 Analyzed: 11/21/2022

Boron 0.0313 0.100 mg/L 0.0839 91.2 50 QR-05

#### Batch B2K1808 - Saturated Paste Metals

##### Blank (B2K1808-BLK1)

Prepared: 11/18/2022 Analyzed: 11/22/2022

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

##### Duplicate (B2K1808-DUP1)

Source: Y211437-02

Prepared: 11/18/2022 Analyzed: 11/22/2022

SAR 0.00 SAR 1.91 200 200

Calcium PPM 36.4 10.0 mg/L 39.9 9.19 50

Magnesium PPM 20.5 10.0 " 22.5 9.39 50

Sodium PPM 57.9 10.0 " 61.0 5.24 50

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-12 JI

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2K1815 - Saturated Paste pH/EC</b>										
<b>Blank (B2K1815-BLK1)</b>					Prepared: 11/18/2022 Analyzed: 11/22/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B2K1815-DUP1)</b>					<b>Source: Y211437-02</b> Prepared: 11/18/2022 Analyzed: 11/22/2022					
Specific Conductance (EC)	0.563	0.00500	mmhos/cm		0.613			8.55	25	
<b>Batch B2K1819 - Saturated Paste pH/EC</b>										
<b>Duplicate (B2K1819-DUP1)</b>					<b>Source: Y211437-02</b> Prepared: 11/18/2022 Analyzed: 11/22/2022					
pH	8.31		pH Units		8.25			0.725	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-12 JI

### Notes and Definitions

U Sample is Non-Detect.

QR-05 Sample results fall below the RL. RPD results are insignificant for batch and are thus acceptable.

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.*



March 22, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H 16-33 O SA received by Origins Laboratory, Inc. March 01, 2024. This project is associated with Origins project number Y403033-01.

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 - Megan H 16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B27@30'	Y403033-01	Soil	March 1, 2024 9:30	03/01/2024 17:16

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





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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4403033

Client: Eagle  
Client Project ID: Megan H 16-33

Checklist Completed by: EHS

Shipped Via: 4D  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3/1/12

Airbill #: N/A

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

Cooler Number/Temperature: 1300 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: TC04

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] 3/1/12  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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 - Megan H 16-33 O SA

PW-B27@30'

3/1/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403033-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	1.00	mg/L	10	B4C0414	03/04/2024	03/05/2024
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	48.8	25.0	mg/kg	1	B4C0121	03/01/2024	03/04/2024
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	62.1 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.312	0.00200	mg/kg	1	B4C0133	"	03/03/2024
1,3,5-Trimethylbenzene	0.244	0.00200	"	"	"	"	"
Benzene	0.0112	0.00200	"	"	"	"	"
Ethylbenzene	0.0415	0.00200	"	"	"	"	"
Toluene	ND	0.00200	"	"	"	"	" U
Xylenes, total	0.590	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	9.33	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	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 - Megan H 16-33 O SA

PW-B27@30'

3/1/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403033-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.09	0.499	meq/L	10	[CALC]	03/02/2024	03/04/2024
Magnesium	1.64	0.823	"	"	"	"	"
Sodium	8.57	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	0.076	0.002	mg/kg	1	B4C0127	03/01/2024	03/02/2024	
2-Methylnaphthalene	0.209	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	0.043	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	97.4 %	60-130			"	"	"	

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 - Megan H 16-33 O SA

PW-B27@30'

3/1/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403033-01 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	95.6 %	60-130	B4C01 27	03/01/2024	03/02/2024
Surrogate: Pyrene-d10	116 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.45	pH Units	1	B4C0208	03/02/2024	03/04/2024
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**SAR by 20B Saturated Paste**

SAR	7.33	0.0100	SAR	1	B4C0203	03/02/2024	03/04/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.35	0.00500	mmhos/cm	1	B4C0208	03/02/2024	03/04/2024
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**Table 915 metals by EPA 6020B**

Arsenic	9.45	0.242	mg/kg	10	B4C0126	03/01/2024	03/12/2024
Barium	28.2	8.36	"	"	"	"	"
Cadmium	0.111	0.0836	"	"	"	"	"
Copper	9.73	8.36	"	"	"	"	"
Lead	11.5	0.836	"	"	"	"	"
Nickel	2.96	0.836	"	"	"	"	"
Selenium	ND	0.217	"	"	"	"	"

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-B27@30'

3/1/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403033-01 (Soil)

Table 915 metals by EPA 6020B

Silver	ND	0.0836	mg/kg	10	B4C0126	03/01/2024	03/12/2024
Zinc	ND	30.9	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L739538	03/01/2024	03/20/2024
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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C0121 - EPA 3550B										
Blank (B4C0121-BLK1)					Prepared: 03/01/2024 Analyzed: 03/03/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.7	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C0121 - EPA 3550B										
LCS (B4C0121-BS1)					Prepared: 03/01/2024 Analyzed: 03/03/2024					
Diesel (C10-C28)	808	50.0	mg/kg	1000		80.8	70-130			
Residual Range Organics (C28-C40)	920	200	"	1000		92.0	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.1	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C0121 - EPA 3550B										
<b>Matrix Spike (B4C0121-MS1)</b>		<b>Source: Y403007-01</b>			Prepared: 03/01/2024 Analyzed: 03/03/2024					
Diesel (C10-C28)	883	50.0	mg/kg	1000	ND	88.3	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.1	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C0121 - EPA 3550B										
Matrix Spike Dup (B4C0121-MSD1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/03/2024					
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130	6.12	35	
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130	7.68	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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## 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 B4C0133 - EPA 5030 (soil)										
Blank (B4C0133-BLK1)					Prepared: 03/01/2024 Analyzed: 03/01/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C0133 - EPA 5030 (soil)</b>										
<b>LCS (B4C0133-BS1)</b>					Prepared: 03/01/2024 Analyzed: 03/01/2024					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.0982	0.00200	"	0.100		98.2	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.0981	0.00200	"	0.100		98.1	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.210	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C0133 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B4C0133-MS1)</b>		<b>Source: Y403007-01</b>			Prepared: 03/01/2024 Analyzed: 03/01/2024					
1,2,4-Trimethylbenzene	0.0981	0.00200	mg/kg	0.100	ND	98.1	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100	ND	97.9	70-130			
Benzene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
Ethylbenzene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
Naphthalene	0.0936	0.00380	"	0.100	0.000580	93.0	70-130			
Toluene	0.0909	0.00200	"	0.100	ND	90.9	70-130			
o-Xylene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C0133 - EPA 5030 (soil)										
Matrix Spike Dup (B4C0133-MSD1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
1,2,4-Trimethylbenzene	0.0931	0.00200	mg/kg	0.100	ND	93.1	70-130	5.27	20	
1,3,5-Trimethylbenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130	4.71	20	
Benzene	0.0956	0.00200	"	0.100	ND	95.6	70-130	0.0418	20	
Ethylbenzene	0.0939	0.00200	"	0.100	ND	93.9	70-130	3.53	20	
Naphthalene	0.0919	0.00380	"	0.100	0.000580	91.3	70-130	1.81	20	
Toluene	0.0894	0.00200	"	0.100	ND	89.4	70-130	1.71	20	
o-Xylene	0.0886	0.00200	"	0.100	ND	88.6	70-130	4.31	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.3	70-130	3.65	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C0126 - EPA 3050B

#### Blank (B4C0126-BLK1)

Prepared: 03/01/2024 Analyzed: 03/12/2024

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 (B4C0126-BS1)

Prepared: 03/01/2024 Analyzed: 03/12/2024

Arsenic	5.42	0.290	mg/kg	5.00	108	80-120
Barium	510	10.0	"	500	102	80-120
Cadmium	5.38	0.100	"	5.00	108	80-120
Copper	54.9	10.0	"	50.0	110	80-120
Lead	4.93	1.00	"	5.00	98.6	80-120
Nickel	5.32	1.00	"	5.00	106	80-120
Selenium	10.1	0.260	"	9.50	106	80-120
Silver	5.36	0.100	"	5.00	107	80-120
Zinc	56.1	37.0	"	50.0	112	80-120

#### Matrix Spike (B4C0126-MS1)

Source: Y403007-01

Prepared: 03/01/2024 Analyzed: 03/12/2024

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8000 W 44th Ave  
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C0126 - EPA 3050B

Matrix Spike (B4C0126-MS1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/12/2024					
Arsenic	5.54	0.243	mg/kg	4.19	0.907	111	75-125			
Barium	432	8.38	"	419	21.6	97.9	75-125			
Cadmium	4.41	0.0838	"	4.19	0.0634	104	75-125			
Copper	48.0	8.38	"	41.9	1.99	110	75-125			
Lead	8.24	0.838	"	4.19	3.68	109	75-125			
Nickel	5.83	0.838	"	4.19	1.49	104	75-125			
Selenium	8.28	0.218	"	7.96	ND	104	75-125			
Silver	4.32	0.0838	"	4.19	ND	103	75-125			
Zinc	53.0	31.0	"	41.9	9.48	104	75-125			
Matrix Spike Dup (B4C0126-MSD1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/12/2024					
Arsenic	5.50	0.254	mg/kg	4.37	0.907	105	75-125	0.752	20	
Barium	458	8.75	"	437	21.6	99.8	75-125	5.96	20	
Cadmium	4.67	0.0875	"	4.37	0.0634	105	75-125	5.78	20	
Copper	49.3	8.75	"	43.7	1.99	108	75-125	2.77	20	
Lead	7.94	0.875	"	4.37	3.68	97.3	75-125	3.76	20	
Nickel	5.97	0.875	"	4.37	1.49	102	75-125	2.41	20	
Selenium	8.62	0.227	"	8.31	ND	104	75-125	4.03	20	
Silver	4.60	0.0875	"	4.37	ND	105	75-125	6.25	20	
Zinc	55.2	32.4	"	43.7	9.48	105	75-125	4.04	20	

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C0127 - EPA 3580**

**Blank (B4C0127-BLK1)**

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	180		"	200		92.1	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

**LCS (B4C0127-BS1)**

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.172	0.002	mg/kg	0.200		85.9	70-130			
2-Methylnaphthalene	0.169	0.002	"	0.200		84.7	70-130			
Acenaphthene	0.169	0.020	"	0.200		84.4	70-130			
Anthracene	0.159	0.020	"	0.200		79.6	70-130			

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8000 W 44th Ave  
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C0127 - EPA 3580**

**LCS (B4C0127-BS1)**

Prepared: 03/01/2024 Analyzed: 03/01/2024

Benzo (a) anthracene	0.175	0.005	mg/kg	0.200		87.3	70-130
Benzo (a) pyrene	0.185	0.020	"	0.200		92.7	70-130
Benzo (b) fluoranthene	0.174	0.020	"	0.200		87.2	70-130
Benzo (g,h,i) perylene	0.168	0.020	"	0.200		84.2	70-130
Benzo (k) fluoranthene	0.186	0.020	"	0.200		93.1	70-130
Chrysene	0.175	0.020	"	0.200		87.5	70-130
Dibenz (a,h) anthracene	0.169	0.020	"	0.200		84.4	70-130
Fluoranthene	0.156	0.020	"	0.200		78.1	70-130
Fluorene	0.172	0.020	"	0.200		86.0	70-130
Indeno (1,2,3-cd) pyrene	0.175	0.020	"	0.200		87.4	70-130
Naphthalene	0.176	0.002	"	0.200		88.0	70-130
Phenanthrene	0.155	0.020	"	0.200		77.4	70-130
Pyrene	0.177	0.020	"	0.200		88.3	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130
Surrogate: Anthracene-d10	190		"	200		94.2	60-130
Surrogate: Pyrene-d10	210		"	200		107	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130

**Matrix Spike (B4C0127-MS1)**

**Source: Y403007-01**

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	ND	92.3	70-130
2-Methylnaphthalene	0.183	0.002	"	0.200	ND	91.6	70-130
Acenaphthene	0.183	0.020	"	0.200	ND	91.5	70-130
Anthracene	0.178	0.020	"	0.200	ND	88.9	70-130
Benzo (a) anthracene	0.203	0.005	"	0.200	ND	101	70-130
Benzo (a) pyrene	0.194	0.020	"	0.200	ND	97.0	70-130
Benzo (b) fluoranthene	0.188	0.020	"	0.200	0.0006	93.6	70-130
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.5	70-130

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C0127 - EPA 3580**

Matrix Spike (B4C0127-MS1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
Benzo (k) fluoranthene	0.177	0.020	mg/kg	0.200	0.0005	88.3	70-130			
Chrysene	0.193	0.020	"	0.200	ND	96.3	70-130			
Dibenz (a,h) anthracene	0.190	0.020	"	0.200	ND	94.8	70-130			
Fluoranthene	0.171	0.020	"	0.200	0.0004	85.2	70-130			
Fluorene	0.184	0.020	"	0.200	ND	92.2	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200	ND	101	70-130			
Naphthalene	0.188	0.002	"	0.200	ND	94.2	70-130			
Phenanthrene	0.169	0.020	"	0.200	ND	84.4	70-130			
Pyrene	0.179	0.020	"	0.200	0.0008	89.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		94.2	60-130			
Surrogate: Pyrene-d10	200		"	200		97.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B4C0127-MSD1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	ND	96.2	70-130	4.16	20	
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.5	70-130	4.19	20	
Acenaphthene	0.190	0.020	"	0.200	ND	95.2	70-130	3.94	20	
Anthracene	0.180	0.020	"	0.200	ND	90.0	70-130	1.27	20	
Benzo (a) anthracene	0.206	0.005	"	0.200	ND	103	70-130	1.49	20	
Benzo (a) pyrene	0.202	0.020	"	0.200	ND	101	70-130	3.87	20	
Benzo (b) fluoranthene	0.195	0.020	"	0.200	0.0006	97.2	70-130	3.80	20	
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	ND	99.0	70-130	3.65	20	
Benzo (k) fluoranthene	0.179	0.020	"	0.200	0.0005	89.4	70-130	1.30	20	
Chrysene	0.200	0.020	"	0.200	ND	99.8	70-130	3.56	20	
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	ND	101	70-130	6.67	20	
Fluoranthene	0.184	0.020	"	0.200	0.0004	91.7	70-130	7.36	20	

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 - Megan H 16-33 O SA

**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 B4C0127 - EPA 3580**

Matrix Spike Dup (B4C0127-MSD1)		Source: Y403007-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
Fluorene	0.191	0.020	mg/kg	0.200	ND	95.7	70-130	3.65	20	
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	ND	101	70-130	0.644	20	
Naphthalene	0.195	0.002	"	0.200	ND	97.7	70-130	3.67	20	
Phenanthrene	0.180	0.020	"	0.200	ND	90.2	70-130	6.64	20	
Pyrene	0.179	0.020	"	0.200	0.0008	89.1	70-130	0.179	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.2	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C0203 - Saturated Paste Metals

#### Blank (B4C0203-BLK1)

Prepared: 03/02/2024 Analyzed: 03/04/2024

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

#### Duplicate (B4C0203-DUP1)

Source: Y402644-01

Prepared: 03/02/2024 Analyzed: 03/04/2024

SAR	ND	0.0100	SAR	3.82			200
Calcium PPM	28.6	10.0	mg/L	453		176	50 QR-DUP
Magnesium PPM	6.33	10.0	"	176		186	50 QR-DUP
Sodium PPM	26.6	10.0	"	378		174	50 QR-DUP

### Batch B4C0414 - DTPA Sorbitol Preparation

#### Blank (B4C0414-BLK1)

Prepared: 03/04/2024 Analyzed: 03/05/2024

Boron	ND	0.100	mg/L
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#### Duplicate (B4C0414-DUP1)

Source: Y402706-01

Prepared: 03/04/2024 Analyzed: 03/05/2024

Boron	0.388	0.100	mg/L	0.417		6.99	50
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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C0208 - Saturated Paste pH/EC										
Blank (B4C0208-BLK1)					Prepared: 03/02/2024 Analyzed: 03/04/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4C0208-DUP1)					Source: Y402644-01 Prepared: 03/02/2024 Analyzed: 03/04/2024					
pH	8.44		pH Units		8.20			2.88	25	
Specific Conductance (EC)	0.340	0.00500	mmhos/cm		3.51			165	25	QR-DUP

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L739538 -										
<b>DUP (L 85816-DUP)</b>		<b>Source: 85816</b>			Prepared: Analyzed: 03/20/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
<b>MS (L 85816-MS)</b>		<b>Source: 85816</b>			Prepared: Analyzed: 03/20/2024					
Chromium, Hexavalent	31.9	2.5	mg/Kg	39.1	< 0.244	82	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 03/20/2024					
Chromium, Hexavalent	6.19	0.5	mg/Kg	8		77	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 03/20/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

### 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 on a wet weight basis.

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

Origins Laboratory, Inc.



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April 04, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H 16-33 O SA received by Origins Laboratory, Inc. March 11, 2024. This project is associated with Origins project number Y403308-01.

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 - Megan H 16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B28@35'	Y403308-01	Soil	March 11, 2024 9:10	03/11/2024 16:30

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

[illegible]

Origins Laboratory, Inc.

Byron

*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 - Megan H 16-33 O SA

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: Y403308 Client: Eagle  
Client Project ID: Megan H 16-33  
Checklist Completed by: EHS Shipped Via: HO  
Date/Time completed: 3/11/24 (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 15.0 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: TD04

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / ( pH >10 for samples preserved with NaHSO <sub>3</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 3/11/24

Origins Laboratory, Inc.

*[Signature]*

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 - Megan H 16-33 O SA

PW-B28@35'

3/11/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403308-01 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.580	0.0985	mg/L	1	B4C2032	03/20/2024	03/21/2024
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	97.6	25.0	mg/kg	1	B4C1101	03/11/2024	03/11/2024
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	Ua

Surrogate: o-Terphenyl	97.0 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.229	0.00200	mg/kg	1	B4C1135	03/11/2024	03/11/2024
1,3,5-Trimethylbenzene	0.174	0.00200	"	"	"	"	"
Benzene	0.0112	0.00200	"	"	"	"	"
Ethylbenzene	0.0157	0.00200	"	"	"	"	"
Toluene	0.0337	0.00200	"	"	"	"	"
Xylenes, total	0.275	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	16.9	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	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 - Megan H 16-33 O SA

PW-B28@35'

3/11/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403308-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	03/20/2024	03/22/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.10	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	0.226	0.002	mg/kg	1	B4C1131	03/11/2024	03/11/2024
2-Methylnaphthalene	0.651	0.002	"	"	"	"	"
Acenaphthene	0.020	0.020	"	"	"	"	"
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
Fluorene	0.037	0.020	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	Ua
Naphthalene	0.114	0.002	"	"	"	"	"
Pyrene	ND	0.020	"	"	"	"	Ua
Surrogate: Fluorene-d10	97.7 %	60-130			"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-B28@35'

3/11/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403308-01 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	100 %	60-130	B4C11 31	03/11/2024	03/11/2024
Surrogate: Pyrene-d10	108 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.51	pH Units	1	B4C2027	03/20/2024	03/21/2024
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**SAR by 20B Saturated Paste**

SAR	4.57	0.0100	SAR	1	B4C2021	03/20/2024	03/22/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.384	0.00500	mmhos/cm	1	B4C2027	03/20/2024	03/21/2024
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**Table 915 metals by EPA 6020B**

Arsenic	3.70	0.281	mg/kg	10	B4C1940	03/19/2024	03/28/2024
Barium	77.6	9.68	"	"	"	"	"
Cadmium	ND	0.0968	"	"	"	"	"
Copper	18.2	9.68	"	"	"	"	"
Lead	16.3	0.968	"	"	"	"	"
Nickel	7.21	0.968	"	"	"	"	"
Selenium	ND	0.252	"	"	"	"	"

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-B28@35'

3/11/2024 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403308-01 (Soil)

## Table 915 metals by EPA 6020B

Silver	ND		0.0968	mg/kg	10	B4C1940	03/19/2024	03/28/2024	
Zinc	55.0		35.8	"	"	"	"	"	

## Total Metals by 7196A

Hexavalent Chromium	ND	0.150	0.374	mg/kg dry	1	2585087	03/21/2024	03/22/2024	U
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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C1101 - EPA 3550B										
Blank (B4C1101-BLK1)					Prepared: 03/11/2024 Analyzed: 03/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	27		"	24.9		109	50-150			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C1101 - EPA 3550B										
LCS (B4C1101-BS1)					Prepared: 03/11/2024 Analyzed: 03/11/2024					
Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C1101 - EPA 3550B

Matrix Spike (B4C1101-MS1)		Source: Y403249-01			Prepared: 03/11/2024 Analyzed: 03/11/2024					
Diesel (C10-C28)	912	50.0	mg/kg	1000	208	70.4	70-130			
Residual Range Organics (C28-C40)	959	200	"	1000	122	83.7	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.3	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C1101 - EPA 3550B										
Matrix Spike Dup (B4C1101-MSD1)		Source: Y403249-01			Prepared: 03/11/2024 Analyzed: 03/11/2024					
Diesel (C10-C28)	912	50.0	mg/kg	1000	208	70.4	70-130	0.0527	35	
Residual Range Organics (C28-C40)	955	200	"	1000	122	83.3	70-130	0.401	35	
Surrogate: o-Terphenyl	48		"	49.8		95.6	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 - Megan H 16-33 O SA

## 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 B4C1135 - EPA 5030 (soil)										
Blank (B4C1135-BLK1)					Prepared: 03/11/2024 Analyzed: 03/11/2024					
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	0.11		"	0.125		89.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C1135 - EPA 5030 (soil)										
LCS (B4C1135-BS1)					Prepared: 03/11/2024 Analyzed: 03/11/2024					
1,2,4-Trimethylbenzene	0.0969	0.00200	mg/kg	0.100		96.9	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.0876	0.00200	"	0.100		87.6	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0953	0.00380	"	0.100		95.3	70-130			
Toluene	0.0933	0.00200	"	0.100		93.3	70-130			
o-Xylene	0.0922	0.00200	"	0.100		92.2	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C1135 - EPA 5030 (soil)										
Matrix Spike (B4C1135-MS1)		Source: Y403290-01			Prepared: 03/11/2024 Analyzed: 03/11/2024					
1,2,4-Trimethylbenzene	0.0891	0.00200	mg/kg	0.100	ND	89.1	70-130			
1,3,5-Trimethylbenzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Benzene	0.0787	0.00200	"	0.100	ND	78.7	70-130			
Ethylbenzene	0.0923	0.00200	"	0.100	ND	92.3	70-130			
Naphthalene	0.0900	0.00380	"	0.100	0.00190	88.1	70-130			
Toluene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
o-Xylene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C1135 - EPA 5030 (soil)										
Matrix Spike Dup (B4C1135-MSD1)		Source: Y403290-01			Prepared: 03/11/2024 Analyzed: 03/11/2024					
1,2,4-Trimethylbenzene	0.0872	0.00200	mg/kg	0.100	ND	87.2	70-130	2.20	20	
1,3,5-Trimethylbenzene	0.0886	0.00200	"	0.100	ND	88.6	70-130	2.39	20	
Benzene	0.0784	0.00200	"	0.100	ND	78.4	70-130	0.458	20	
Ethylbenzene	0.0906	0.00200	"	0.100	ND	90.6	70-130	1.77	20	
Naphthalene	0.0920	0.00380	"	0.100	0.00190	90.1	70-130	2.22	20	
Toluene	0.0859	0.00200	"	0.100	ND	85.9	70-130	0.842	20	
o-Xylene	0.0851	0.00200	"	0.100	ND	85.1	70-130	0.188	20	
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.5	70-130	0.0110	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C1940 - EPA 3050B

#### Blank (B4C1940-BLK1)

Prepared: 03/19/2024 Analyzed: 03/28/2024

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 (B4C1940-BS1)

Prepared: 03/19/2024 Analyzed: 03/28/2024

Arsenic	4.74	0.290	mg/kg	5.00	94.9	80-120
Barium	490	10.0	"	500	97.9	80-120
Cadmium	4.74	0.100	"	5.00	94.8	80-120
Copper	47.3	10.0	"	50.0	94.5	80-120
Lead	4.54	1.00	"	5.00	90.8	80-120
Nickel	4.53	1.00	"	5.00	90.6	80-120
Selenium	10.5	0.260	"	9.50	111	80-120
Silver	4.47	0.100	"	5.00	89.4	80-120
Zinc	47.3	37.0	"	50.0	94.7	80-120

#### Matrix Spike (B4C1940-MS1)

Source: Y403489-01

Prepared: 03/19/2024 Analyzed: 03/28/2024

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C1940 - EPA 3050B

Matrix Spike (B4C1940-MS1)		Source: Y403489-01			Prepared: 03/19/2024 Analyzed: 03/28/2024					
Arsenic	12.4	0.255	mg/kg	4.39	7.47	112	75-125			
Barium	564	8.78	"	439	128	99.2	75-125			
Cadmium	4.26	0.0878	"	4.39	ND	97.1	75-125			
Copper	53.0	8.78	"	43.9	10.1	97.7	75-125			
Lead	13.5	0.878	"	4.39	8.64	111	75-125			
Nickel	18.0	0.878	"	4.39	13.5	102	75-125			
Selenium	9.08	0.228	"	8.34	ND	109	75-125			
Silver	3.94	0.0878	"	4.39	ND	89.8	75-125			
Zinc	86.6	32.5	"	43.9	41.1	104	75-125			
Matrix Spike Dup (B4C1940-MSD1)		Source: Y403489-01			Prepared: 03/19/2024 Analyzed: 03/28/2024					
Arsenic	12.0	0.256	mg/kg	4.41	7.47	103	75-125	3.15	20	
Barium	556	8.83	"	441	128	97.0	75-125	1.36	20	
Cadmium	4.37	0.0883	"	4.41	ND	99.1	75-125	2.56	20	
Copper	51.2	8.83	"	44.1	10.1	93.0	75-125	3.52	20	
Lead	13.2	0.883	"	4.41	8.64	102	75-125	2.70	20	
Nickel	17.6	0.883	"	4.41	13.5	93.1	75-125	2.18	20	
Selenium	9.42	0.230	"	8.39	ND	112	75-125	3.69	20	
Silver	4.01	0.0883	"	4.41	ND	90.9	75-125	1.71	20	
Zinc	83.6	32.7	"	44.1	41.1	96.4	75-125	3.51	20	

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C1131 - EPA 3580**

**Blank (B4C1131-BLK1)**

Prepared: 03/11/2024 Analyzed: 03/11/2024

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	200		ug/kg	200	99.1	60-130
Surrogate: Anthracene-d10	190		"	200	95.3	60-130
Surrogate: Pyrene-d10	210		"	200	104	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	107	60-130

**LCS (B4C1131-BS1)**

Prepared: 03/11/2024 Analyzed: 03/11/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	97.3	70-130
2-Methylnaphthalene	0.190	0.002	"	0.200	95.2	70-130
Acenaphthene	0.194	0.020	"	0.200	96.9	70-130
Anthracene	0.187	0.020	"	0.200	93.3	70-130

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C1131 - EPA 3580**

**LCS (B4C1131-BS1)**

Prepared: 03/11/2024 Analyzed: 03/11/2024

Benzo (a) anthracene	0.174	0.005	mg/kg	0.200		86.8	70-130
Benzo (a) pyrene	0.195	0.020	"	0.200		97.7	70-130
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.7	70-130
Benzo (g,h,i) perylene	0.170	0.020	"	0.200		84.8	70-130
Benzo (k) fluoranthene	0.187	0.020	"	0.200		93.7	70-130
Chrysene	0.182	0.020	"	0.200		90.8	70-130
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.5	70-130
Fluoranthene	0.160	0.020	"	0.200		79.8	70-130
Fluorene	0.196	0.020	"	0.200		97.8	70-130
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200		94.7	70-130
Naphthalene	0.195	0.002	"	0.200		97.3	70-130
Phenanthrene	0.193	0.020	"	0.200		96.3	70-130
Pyrene	0.174	0.020	"	0.200		86.9	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	190		"	200		94.8	60-130
Surrogate: Pyrene-d10	180		"	200		87.7	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

**Matrix Spike (B4C1131-MS1)**

Source: Y403290-01

Prepared: 03/11/2024 Analyzed: 03/11/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	0.002	93.5	70-130
2-Methylnaphthalene	0.187	0.002	"	0.200	0.003	92.0	70-130
Acenaphthene	0.187	0.020	"	0.200	0.001	92.7	70-130
Anthracene	0.176	0.020	"	0.200	0.001	87.6	70-130
Benzo (a) anthracene	0.173	0.005	"	0.200	0.001	85.8	70-130
Benzo (a) pyrene	0.184	0.020	"	0.200	0.003	90.5	70-130
Benzo (b) fluoranthene	0.193	0.020	"	0.200	0.0004	96.3	70-130
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	0.001	85.4	70-130

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C1131 - EPA 3580**

Matrix Spike (B4C1131-MS1)		Source: Y403290-01			Prepared: 03/11/2024 Analyzed: 03/11/2024					
Benzo (k) fluoranthene	0.188	0.020	mg/kg	0.200	0.001	93.3	70-130			
Chrysene	0.185	0.020	"	0.200	0.0009	91.9	70-130			
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130			
Fluoranthene	0.164	0.020	"	0.200	ND	81.9	70-130			
Fluorene	0.186	0.020	"	0.200	0.0009	92.6	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	95.2	70-130			
Naphthalene	0.188	0.002	"	0.200	ND	94.2	70-130			
Phenanthrene	0.181	0.020	"	0.200	0.001	90.1	70-130			
Pyrene	0.177	0.020	"	0.200	0.002	87.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	200		"	200		98.4	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B4C1131-MSD1)		Source: Y403290-01			Prepared: 03/11/2024 Analyzed: 03/11/2024					
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.002	94.2	70-130	0.793	20	
2-Methylnaphthalene	0.187	0.002	"	0.200	0.003	92.0	70-130	0.0284	20	
Acenaphthene	0.188	0.020	"	0.200	0.001	93.6	70-130	0.982	20	
Anthracene	0.159	0.020	"	0.200	0.001	78.9	70-130	10.3	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.001	84.6	70-130	1.40	20	
Benzo (a) pyrene	0.191	0.020	"	0.200	0.003	94.1	70-130	3.83	20	
Benzo (b) fluoranthene	0.177	0.020	"	0.200	0.0004	88.4	70-130	8.53	20	
Benzo (g,h,i) perylene	0.187	0.020	"	0.200	0.001	92.8	70-130	8.22	20	
Benzo (k) fluoranthene	0.181	0.020	"	0.200	0.001	89.8	70-130	3.82	20	
Chrysene	0.181	0.020	"	0.200	0.0009	90.2	70-130	1.86	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.6	70-130	4.28	20	
Fluoranthene	0.173	0.020	"	0.200	ND	86.3	70-130	5.23	20	

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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
<b>Batch B4C1131 - EPA 3580</b>										
<b>Matrix Spike Dup (B4C1131-MSD1)</b>			<b>Source: Y403290-01</b>			Prepared: 03/11/2024 Analyzed: 03/11/2024				
Fluorene	0.185	0.020	mg/kg	0.200	0.0009	92.3	70-130	0.414	20	
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200	ND	91.5	70-130	3.99	20	
Naphthalene	0.189	0.002	"	0.200	ND	94.4	70-130	0.197	20	
Phenanthrene	0.191	0.020	"	0.200	0.001	94.8	70-130	5.03	20	
Pyrene	0.175	0.020	"	0.200	0.002	86.9	70-130	1.10	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	180		"	200		88.9	60-130			
Surrogate: Pyrene-d10	180		"	200		90.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2021 - Saturated Paste Metals

##### Blank (B4C2021-BLK1)

Prepared: 03/20/2024 Analyzed: 03/22/2024

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

##### Duplicate (B4C2021-DUP1)

Source: Y403308-01

Prepared: 03/20/2024 Analyzed: 03/22/2024

Calcium PPM	10.3	10.0	mg/L	8.58	18.1	50
SAR	ND	0.0100	SAR	4.57	200	
Magnesium PPM	7.01	10.0	mg/L	5.99	15.7	50
Sodium PPM	76.6	10.0	"	71.3	7.09	50

#### Batch B4C2032 - DTPA Sorbitol Preparation

##### Blank (B4C2032-BLK1)

Prepared: 03/20/2024 Analyzed: 03/21/2024

Boron	ND	0.100	mg/L
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##### Duplicate (B4C2032-DUP1)

Source: Y403308-01

Prepared: 03/20/2024 Analyzed: 03/21/2024

Boron	0.609	0.100	mg/L	0.580	4.96	50
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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 - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2027 - Saturated Paste pH/EC										
Blank (B4C2027-BLK1)					Prepared: 03/20/2024 Analyzed: 03/21/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4C2027-DUP1)					Source: Y403308-01 Prepared: 03/20/2024 Analyzed: 03/21/2024					
pH	8.45		pH Units		8.51			0.708	25	
Specific Conductance (EC)	0.413	0.00500	mmhos/cm		0.384			7.22	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 - Megan H 16-33 O SA

## 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
<b>Batch 2585087 - SW846 3060A</b>										
<b>BLANK (1205681760-BLK)</b>					Prepared: 03/21/2024 Analyzed: 03/22/2024					
Hexavalent Chromium	ND	0.332	mg/kg				-			U
<b>LCS (1205681761-BKS)</b>					Prepared: 03/21/2024 Analyzed: 03/22/2024					
Hexavalent Chromium	3.00	0.297	mg/kg	2.97		101	80-120			
<b>DUP (1205681762 D)</b>					Source: Y403308-01 Prepared: 03/21/2024 Analyzed: 03/22/2024					
Hexavalent Chromium	ND	0.374	mg/kg dry		<0.150		0-50	N/A	50	U
<b>MS (1205681763 S)</b>					Source: Y403308-01 Prepared: 03/21/2024 Analyzed: 03/22/2024					
Hexavalent Chromium	1.21	0.374	mg/kg dry	3.74	<0.150	30.3	75-125			
<b>DUP (1205681764 D)</b>					Source: 659803003 Prepared: 03/21/2024 Analyzed: 03/22/2024					
Hexavalent Chromium	ND	0.262	mg/kg dry		<0.105		0-50	N/A	50	U
<b>MS (1205681765 S)</b>					Source: 659803003 Prepared: 03/21/2024 Analyzed: 03/22/2024					
Hexavalent Chromium	1.94	0.262	mg/kg dry	2.62	<0.105	71.9	75-125			
<b>ILCS (1205681766-ILCS)</b>					Prepared: 03/21/2024 Analyzed: 03/22/2024					
Hexavalent Chromium	7.44	0.379	mg/kg	7.90		94.2	80-120			

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 - Megan H 16-33 O SA

### Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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April 02, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H 16-33 O SA received by Origins Laboratory, Inc. March 20, 2024. This project is associated with Origins project number Y403557-01.

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 - Megan H 16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-E04@12'	Y403557-01	Soil	March 20, 2024 14:00	03/20/2024 17:56
PW-E05@15'	Y403557-02	Soil	March 20, 2024 14:02	03/20/2024 17:56
PW-E06@15'	Y403557-03	Soil	March 20, 2024 14:08	03/20/2024 17:56
PW-E07@15'	Y403557-04	Soil	March 20, 2024 14:10	03/20/2024 17:56
PW-E08@15'	Y403557-05	Soil	March 20, 2024 14:12	03/20/2024 17:56
PW-E09@12'	Y403557-06	Soil	March 20, 2024 14:14	03/20/2024 17:56
PW-E10@12'	Y403557-07	Soil	March 20, 2024 14:20	03/20/2024 17:56
PW-E11@12'	Y403557-08	Soil	March 20, 2024 14:22	03/20/2024 17:56
PW-E12@25'	Y403557-09	Soil	March 20, 2024 14:24	03/20/2024 17:56
PW-E13@15'	Y403557-10	Soil	March 20, 2024 14:30	03/20/2024 17:56
PW-S27@25'	Y403557-11	Soil	March 20, 2024 14:32	03/20/2024 17:56
PW-W17@25'	Y403557-12	Soil	March 20, 2024 14:40	03/20/2024 17:56
PW-N22@25'	Y403557-13	Soil	March 20, 2024 14:42	03/20/2024 17:56
PW-N21@10'	Y403557-14	Soil	March 20, 2024 14:50	03/20/2024 17:56

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 - Megan H 16-33 O SA

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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 - Megan H 16-33 O SA

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

**ORIGINS**  
LABORATORY, INC

Client: Eagle Environmental (41)  
Address: 8000 W 44th Ave  
Telephone Number: 303-433-0479  
Email Address: elc@eagle-environment.com

Project Manager: D. Coloccia  
Project Name: Megan H 16-33 O SA  
Project Number: -  
Samples Collected By: SG

Temp Received: 7.1 Date Results Needed

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	Other	Other	
PW-E04 @ 12'	3/20/14	1400	3	X										* Metals Run for 1
PW-E05 @ 15'		1402												* Metals Run for 1
PW-E06 @ 15'		1408												Arsenic, Barium, Cadmium, Selenium 2
PW-E07 @ 15'		1410												Cadmium, Selenium 3
PW-E08 @ 15'		1412												4
PW-E09 @ 15'		1414												* PAHs Run for 5
PW-E10 @ 12'		1420												1,2-dichloro, PTHene 6
PW-E11 @ 12'		1422												chlorophene, styrene, 7
PW-E12 @ 25'		1434												fluoranthene, 8
PW-E13 @ 15'		1436												fluorene 9
Relinquished By: <u>[Signature]</u>	Date: <u>3/20/2014</u>	Time: <u>1750</u>	Received By: <u>CHS</u>	Date: <u>3/20/2014</u>	Time: <u>1750</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr								

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page 1 of 2

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4403557 Client: Eagle  
Client Project ID: Megan H 16-33

Checklist Completed by: ELH Shipped Via: HO  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 3/20/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
Cooler Number/Temperature: 1171 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: 1004

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 3/20/24

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-E04@12'  
3/20/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403557-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ADM	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 87.6 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/20/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 103 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 115 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	8.84	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	4.90	0.823	"	"	"	ZZZ	"	"	
Sodium	5.03	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-E04@12'  
3/20/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403557-01 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.0 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-E04@12'  
3/20/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-01 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	100 %	60-130			B4C2052	03/20/2024	03/25/2024
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### pH in Soil by 9045D

pH	8.15		pH Units	1	B4C2131	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	1.92	0.0100	SAR	1	B4C2127	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	3.85	0.281	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	107	9.67	"	"	"	KMC	"	"
Cadmium	ND	0.0967	"	"	"	KMC	"	"
Selenium	ND	0.251	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-E05@15'  
3/20/2024 2:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-02 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ADM	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 97.5 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 104 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 115 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	10.4	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	5.74	0.823	"	"	"	ZZZ	"	"	
Sodium	6.20	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-E05@15'  
3/20/2024 2:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-02 (Soil)

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	92.9 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-E05@15'  
3/20/2024 2:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-02 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	98.8 %	60-130			B4C2052	03/20/2024	03/25/2024
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### pH in Soil by 9045D

pH	8.16		pH Units	1	B4C2131	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	2.18	0.0100	SAR	1	B4C2127	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	2.30	0.261	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	98.2	8.99	"	"	"	KMC	"	"
Cadmium	ND	0.0899	"	"	"	KMC	"	"
Selenium	ND	0.234	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-E06@15'  
3/20/2024 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-03 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ADM	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 90.1 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 103 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 114 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	8.87	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	4.89	0.823	"	"	"	ZZZ	"	"	
Sodium	5.82	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-E06@15'  
3/20/2024 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-03 (Soil)

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	0.018	0.005	"	"	"	Windo	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	0.020	0.020	"	"	"	Windo	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	0.040	0.020	"	"	"	Windo	"	"	
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	0.030	0.020	"	"	"	Windo	"	"	

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-E06@15'  
3/20/2024 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403557-03 (Soil)**

**pH in Soil by 9045D**

pH	8.15		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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**SAR by 20B Saturated Paste**

SAR	2.22	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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**Table 915 metals by EPA 6020B**

Arsenic	2.63	0.252	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	105	8.69	"	"	"	KMC	"	"
Cadmium	ND	0.0869	"	"	"	KMC	"	"
Selenium	ND	0.226	"	"	"	KMC	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-E07@15'  
3/20/2024 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403557-04 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ADM	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 87.2 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 104 % 70-130 " " "  
Surrogate: Toluene-d8 99.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 114 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	3.98	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	2.14	0.823	"	"	"	ZZZ	"	"	
Sodium	3.92	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-E07@15'  
3/20/2024 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403557-04 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.9 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-E07@15'  
3/20/2024 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-04 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	99.0 %	60-130			B4C20 52	03/20/2024	03/25/2024
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### pH in Soil by 9045D

pH	8.23		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	2.24	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	2.99	0.272	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	86.3	9.38	"	"	"	KMC	"	"
Cadmium	ND	0.0938	"	"	"	KMC	"	"
Selenium	0.277	0.244	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-E08@15'  
3/20/2024 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403557-05 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ADM	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 87.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 103 % 70-130 " " "  
Surrogate: Toluene-d8 99.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 114 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.716	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	4.00	0.823	"	"	"	ZZZ	"	"	
Sodium	2.53	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-E08@15'  
3/20/2024 2:12:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-05 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.3 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-E08@15'  
3/20/2024 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403557-05 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	98.0 %	60-130			B4C2052	03/20/2024	03/25/2024
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### pH in Soil by 9045D

pH	8.48		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	1.65	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.48	0.249	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	140	8.57	"	"	"	KMC	"	"
Cadmium	ND	0.0857	"	"	"	KMC	"	"
Selenium	ND	0.223	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-E09@12'  
3/20/2024 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-06 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	128	25.0	mg/kg	1	B4C2058	ADM	03/20/2024	03/21/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 92.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.145	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	
1,3,5-Trimethylbenzene	0.0299	0.00200	"	"	"	HKS	"	"	
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	0.00244	0.00200	"	"	"	HKS	"	"	
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	7.23	0.200	"	"	"	HKS	"	"	

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.810	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	2.38	0.823	"	"	"	ZZZ	"	"	
Sodium	6.25	0.435	"	"	"	ZZZ	"	"	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-E09@12'  
3/20/2024 2:14:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-06 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.072	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	
2-Methylnaphthalene	0.166	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	0.028	0.002	"	"	"	Windo	"	"	
Phenanthrene	0.022	0.020	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.8 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-E09@12'  
3/20/2024 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403557-06 (Soil)**

**pH in Soil by 9045D**

pH	8.45		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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**SAR by 20B Saturated Paste**

SAR	4.95	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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**Table 915 metals by EPA 6020B**

Arsenic	3.65	0.286	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	107	9.85	"	"	"	KMC	"	"
Cadmium	ND	0.0985	"	"	"	KMC	"	"
Selenium	ND	0.256	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-E10@12'  
3/20/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-07 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ADM	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 85.6 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 104 % 70-130 " " "  
Surrogate: Toluene-d8 99.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	3.65	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	4.33	0.823	"	"	"	ZZZ	"	"	
Sodium	3.12	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-E10@12'  
3/20/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403557-07 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.7 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-E10@12'  
3/20/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-07 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	98.6 %	60-130			B4C2052	03/20/2024	03/25/2024
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### pH in Soil by 9045D

pH	8.36		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	1.56	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.26	0.258	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	131	8.91	"	"	"	KMC	"	"
Cadmium	ND	0.0891	"	"	"	KMC	"	"
Selenium	ND	0.232	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-E11@12'  
3/20/2024 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403557-08 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ADM	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 78.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 103 % 70-130 " " "  
Surrogate: Toluene-d8 98.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 114 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	1.98	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	4.22	0.823	"	"	"	ZZZ	"	"	
Sodium	3.86	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-E11@12'  
3/20/2024 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403557-08 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.5 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-E11@12'  
3/20/2024 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-08 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	98.5 %	60-130			B4C2052	03/20/2024	03/25/2024
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### pH in Soil by 9045D

pH	8.41		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	2.19	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.04	0.258	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	162	8.90	"	"	"	KMC	"	"
Cadmium	ND	0.0890	"	"	"	KMC	"	"
Selenium	ND	0.231	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-E12@25'  
3/20/2024 2:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403557-09 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ZZZ	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 91.0 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 103 % 70-130 " " "  
Surrogate: Toluene-d8 99.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 115 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	7.54	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	4.38	0.823	"	"	"	ZZZ	"	"	
Sodium	6.24	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-E12@25'  
3/20/2024 2:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403557-09 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	92.1 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-E12@25'  
3/20/2024 2:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-09 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	98.5 %	60-130			B4C2052	03/20/2024	03/25/2024
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### pH in Soil by 9045D

pH	8.14		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	2.55	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	2.03	0.266	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	70.2	9.17	"	"	"	KMC	"	"
Cadmium	ND	0.0917	"	"	"	KMC	"	"
Selenium	ND	0.238	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-E13@15'  
3/20/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403557-10 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ZZZ	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 88.7 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HK	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	1.43	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "  
Surrogate: Toluene-d8 98.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.517	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	1.54	0.823	"	"	"	ZZZ	"	"	
Sodium	6.27	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-E13@15'  
3/20/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-10 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	
2-Methylnaphthalene	0.004	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	90.5 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-E13@15'  
3/20/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-10 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	96.7 %	60-130			B4C2052	03/20/2024	03/25/2024
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### pH in Soil by 9045D

pH	8.61		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	6.18	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.77	0.264	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	108	9.10	"	"	"	KMC	"	"
Cadmium	ND	0.0910	"	"	"	KMC	"	"
Selenium	ND	0.237	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-S27@25'  
3/20/2024 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403557-11 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ZZZ	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 93.2 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 104 % 70-130 " " "  
Surrogate: Toluene-d8 98.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	5.38	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	4.99	0.823	"	"	"	ZZZ	"	"	
Sodium	8.26	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-S27@25'  
3/20/2024 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403557-11 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/26/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 101 % 60-130  
Surrogate: Anthracene-d10 92.6 % 60-130  
Surrogate: Pyrene-d10 91.0 % 60-130

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 - Megan H 16-33 O SA

PW-S27@25'  
3/20/2024 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-11 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	99.4 %	60-130			B4C2052	03/20/2024	03/26/2024
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### pH in Soil by 9045D

pH	8.28		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	3.63	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.90	0.258	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	82.0	8.89	"	"	"	KMC	"	"
Cadmium	ND	0.0889	"	"	"	KMC	"	"
Selenium	ND	0.231	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-W17@25'  
3/20/2024 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-12 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ZZZ	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 90.5 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 104 % 70-130 " " "  
Surrogate: Toluene-d8 99.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 114 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	0.955	0.823	"	"	"	ZZZ	"	"	
Sodium	3.59	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-W17@25'  
3/20/2024 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403557-12 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/26/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 101 % 60-130  
Surrogate: Anthracene-d10 87.7 % 60-130  
Surrogate: Pyrene-d10 97.0 % 60-130

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 - Megan H 16-33 O SA

PW-W17@25'  
3/20/2024 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-12 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	97.5 %	60-130			B4C2052	03/20/2024	03/26/2024
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### pH in Soil by 9045D

pH	8.61		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	4.38	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.24	0.282	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	125	9.73	"	"	"	KMC	"	"
Cadmium	ND	0.0973	"	"	"	KMC	"	"
Selenium	ND	0.253	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-N22@25'  
3/20/2024 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403557-13 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ZZZ	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 91.5 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 105 % 70-130 " " "  
Surrogate: Toluene-d8 98.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	2.96	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	6.10	0.823	"	"	"	ZZZ	"	"	
Sodium	39.2	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-N22@25'  
3/20/2024 2:42:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-13 (Soil)

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.3 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-N22@25'  
3/20/2024 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-13 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	99.1 %	60-130			B4C2052	03/20/2024	03/25/2024
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### pH in Soil by 9045D

pH	8.59	pH Units	1		B4C2132	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	18.4	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.50	0.280	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	140	9.67	"	"	"	KMC	"	"
Cadmium	ND	0.0967	"	"	"	KMC	"	"
Selenium	ND	0.251	"	"	"	KMC	"	"

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 - Megan H 16-33 O SA

PW-N21@10'  
3/20/2024 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403557-14 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2058	ZZZ	03/20/2024	03/21/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 98.8 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2056	HKS	03/20/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	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 109 % 70-130 " " "  
Surrogate: Toluene-d8 99.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 114 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	6.12	0.499	meq/L	10	[CALC]	ZZZ	03/21/2024	03/28/2024	
Magnesium	2.95	0.823	"	"	"	ZZZ	"	"	
Sodium	4.26	0.435	"	"	"	ZZZ	"	"	

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 - Megan H 16-33 O SA

PW-N21@10'  
3/20/2024 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-14 (Soil)

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2052	Windo	03/20/2024	03/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	0.008	0.005	"	"	"	Windo	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Phenanthrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.6 %	60-130	"	"	"

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 - Megan H 16-33 O SA

PW-N21@10'  
3/20/2024 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403557-14 (Soil)

### PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	102 %	60-130			B4C20 52	03/20/2024	03/25/2024
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### pH in Soil by 9045D

pH	8.21		pH Units	1	B4C2132	EAL	03/21/2024	03/22/2024
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### SAR by 20B Saturated Paste

SAR	2.00	0.0100	SAR	1	B4C2128	ZZZ	03/21/2024	03/28/2024
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### Table 915 metals by EPA 6020B

Arsenic	2.36	0.278	mg/kg	10	B4C2053	KMC	03/20/2024	03/27/2024
Barium	107	9.57	"	"	"	KMC	"	"
Cadmium	0.107	0.0957	"	"	"	KMC	"	"
Selenium	ND	0.249	"	"	"	KMC	"	"

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2056 - EPA 5030 (soil)										
Blank (B4C2056-BLK1)					Prepared: 03/20/2024 Analyzed: 03/20/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		115	70-130			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
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## 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 B4C2056 - EPA 5030 (soil)										
LCS (B4C2056-BS1)					Prepared: 03/20/2024 Analyzed: 03/20/2024					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0973	0.00200	"	0.100		97.3	70-130			
Ethylbenzene	0.0989	0.00200	"	0.100		98.9	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.0968	0.00200	"	0.100		96.8	70-130			
o-Xylene	0.0994	0.00200	"	0.100		99.4	70-130			
m,p-Xylene	0.194	0.00400	"	0.200		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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Dan Coloccia  
Project Number: [none]  
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## 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 B4C2056 - EPA 5030 (soil)										
Matrix Spike (B4C2056-MS1)		Source: Y403556-01			Prepared: 03/20/2024 Analyzed: 03/20/2024					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Benzene	0.0954	0.00200	"	0.100	ND	95.4	70-130			
Ethylbenzene	0.0993	0.00200	"	0.100	ND	99.3	70-130			
Naphthalene	0.100	0.00380	"	0.100	ND	100	70-130			
Toluene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
o-Xylene	0.0986	0.00200	"	0.100	ND	98.6	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C2056 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B4C2056-MSD1)</b>		<b>Source: Y403556-01</b>			Prepared: 03/20/2024 Analyzed: 03/20/2024					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	0.178	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	0.0974	20	
Benzene	0.0955	0.00200	"	0.100	ND	95.5	70-130	0.126	20	
Ethylbenzene	0.0988	0.00200	"	0.100	ND	98.8	70-130	0.505	20	
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130	3.94	20	
Toluene	0.0954	0.00200	"	0.100	ND	95.4	70-130	0.273	20	
o-Xylene	0.0992	0.00200	"	0.100	ND	99.2	70-130	0.647	20	
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.3	70-130	0.352	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C2058 - EPA 3550B</b>										
<b>Blank (B4C2058-BLK1)</b>					Prepared: 03/20/2024 Analyzed: 03/21/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.7	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2058 - EPA 3550B

### LCS (B4C2058-BS1)

Prepared: 03/20/2024 Analyzed: 03/21/2024

Diesel (C10-C28)	919	50.0	mg/kg	1000		91.9	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2058 - EPA 3550B

Matrix Spike (B4C2058-MS1)		Source: Y403556-01			Prepared: 03/20/2024 Analyzed: 03/21/2024					
Diesel (C10-C28)	953	50.0	mg/kg	1000	ND	95.3	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	54		"	49.8		110	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2058 - EPA 3550B										
Matrix Spike Dup (B4C2058-MSD1)		Source: Y403556-01			Prepared: 03/20/2024 Analyzed: 03/21/2024					
Diesel (C10-C28)	937	50.0	mg/kg	1000	ND	93.7	70-130	1.74	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	2.42	35	
Surrogate: o-Terphenyl	43		"	49.8		86.6	50-150			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B4C2053 - EPA 3050B

##### Blank (B4C2053-BLK1)

Prepared: 03/20/2024 Analyzed: 03/27/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Selenium	ND	0.260	"

##### LCS (B4C2053-BS1)

Prepared: 03/20/2024 Analyzed: 03/27/2024

Arsenic	4.85	0.290	mg/kg	5.00	96.9	80-120
Barium	497	10.0	"	500	99.3	80-120
Cadmium	4.84	0.100	"	5.00	96.8	80-120
Selenium	9.26	0.260	"	9.50	97.5	80-120

##### Matrix Spike (B4C2053-MS1)

Source: Y403557-01

Prepared: 03/20/2024 Analyzed: 03/27/2024

Arsenic	7.44	0.259	mg/kg	4.47	3.85	80.3	75-125
Barium	547	8.95	"	447	107	98.3	75-125
Cadmium	4.59	0.0895	"	4.47	0.0929	100	75-125
Selenium	8.47	0.233	"	8.50	0.159	97.8	75-125

##### Matrix Spike Dup (B4C2053-MSD1)

Source: Y403557-01

Prepared: 03/20/2024 Analyzed: 03/27/2024

Arsenic	6.79	0.272	mg/kg	4.69	3.85	62.6	75-125	9.21	20	QM-07
Barium	526	9.38	"	469	107	89.1	75-125	4.04	20	
Cadmium	4.43	0.0938	"	4.69	0.0929	92.6	75-125	3.38	20	
Selenium	8.25	0.244	"	8.91	0.159	90.8	75-125	2.67	20	

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C2052 - EPA 3580**

**Blank (B4C2052-BLK1)**

Prepared: 03/20/2024 Analyzed: 03/22/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	190		"	200		95.5	60-130			
Surrogate: Pyrene-d10	190		"	200		96.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

**LCS (B4C2052-BS1)**

Prepared: 03/20/2024 Analyzed: 03/25/2024

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200		98.6	70-130			
2-Methylnaphthalene	0.199	0.002	"	0.200		99.3	70-130			
Acenaphthene	0.208	0.020	"	0.200		104	70-130			
Anthracene	0.197	0.020	"	0.200		98.3	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C2052 - EPA 3580**

**LCS (B4C2052-BS1)**

Prepared: 03/20/2024 Analyzed: 03/25/2024

Benzo (a) anthracene	0.187	0.005	mg/kg	0.200		93.3	70-130
Benzo (a) pyrene	0.188	0.020	"	0.200		94.1	70-130
Benzo (b) fluoranthene	0.212	0.020	"	0.200		106	70-130
Benzo (g,h,i) perylene	0.205	0.020	"	0.200		102	70-130
Benzo (k) fluoranthene	0.171	0.020	"	0.200		85.7	70-130
Chrysene	0.195	0.020	"	0.200		97.6	70-130
Dibenz (a,h) anthracene	0.226	0.020	"	0.200		113	70-130
Fluoranthene	0.196	0.020	"	0.200		97.8	70-130
Fluorene	0.207	0.020	"	0.200		104	70-130
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200		103	70-130
Naphthalene	0.210	0.002	"	0.200		105	70-130
Phenanthrene	0.194	0.020	"	0.200		97.1	70-130
Pyrene	0.191	0.020	"	0.200		95.7	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	190		"	200		93.6	60-130
Surrogate: Pyrene-d10	190		"	200		94.7	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130

**Matrix Spike (B4C2052-MS1)**

**Source: Y403557-01**

Prepared: 03/20/2024 Analyzed: 03/25/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	ND	98.8	70-130
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	98.9	70-130
Acenaphthene	0.207	0.020	"	0.200	ND	104	70-130
Anthracene	0.201	0.020	"	0.200	ND	101	70-130
Benzo (a) anthracene	0.204	0.005	"	0.200	0.004	100	70-130
Benzo (a) pyrene	0.189	0.020	"	0.200	0.008	90.9	70-130
Benzo (b) fluoranthene	0.213	0.020	"	0.200	0.014	99.1	70-130
Benzo (g,h,i) perylene	0.223	0.020	"	0.200	0.018	102	70-130

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C2052 - EPA 3580**

Matrix Spike (B4C2052-MS1)		Source: Y403557-01			Prepared: 03/20/2024 Analyzed: 03/25/2024					
Benzo (k) fluoranthene	0.203	0.020	mg/kg	0.200	0.011	95.8	70-130			
Chrysene	0.210	0.020	"	0.200	0.007	101	70-130			
Dibenz (a,h) anthracene	0.227	0.020	"	0.200	0.006	110	70-130			
Fluoranthene	0.208	0.020	"	0.200	0.005	101	70-130			
Fluorene	0.209	0.020	"	0.200	ND	104	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	0.013	96.2	70-130			
Naphthalene	0.209	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.195	0.020	"	0.200	0.001	96.6	70-130			
Pyrene	0.183	0.020	"	0.200	0.005	88.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Pyrene-d10	180		"	200		88.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.2	60-130			

Matrix Spike Dup (B4C2052-MSD1)		Source: Y403557-01			Prepared: 03/20/2024 Analyzed: 03/25/2024					
1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	ND	99.5	70-130	0.756	20	
2-Methylnaphthalene	0.199	0.002	"	0.200	ND	99.5	70-130	0.597	20	
Acenaphthene	0.215	0.020	"	0.200	ND	108	70-130	3.96	20	
Anthracene	0.210	0.020	"	0.200	ND	105	70-130	4.08	20	
Benzo (a) anthracene	0.210	0.005	"	0.200	0.004	103	70-130	2.92	20	
Benzo (a) pyrene	0.188	0.020	"	0.200	0.008	90.1	70-130	0.894	20	
Benzo (b) fluoranthene	0.234	0.020	"	0.200	0.014	110	70-130	9.38	20	
Benzo (g,h,i) perylene	0.223	0.020	"	0.200	0.018	102	70-130	0.0000401	20	
Benzo (k) fluoranthene	0.217	0.020	"	0.200	0.011	103	70-130	6.68	20	
Chrysene	0.210	0.020	"	0.200	0.007	101	70-130	0.0440	20	
Dibenz (a,h) anthracene	0.238	0.020	"	0.200	0.006	116	70-130	4.63	20	
Fluoranthene	0.192	0.020	"	0.200	0.005	93.4	70-130	7.86	20	

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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
<b>Batch B4C2052 - EPA 3580</b>										
<b>Matrix Spike Dup (B4C2052-MSD1)</b>	<b>Source: Y403557-01</b>				Prepared: 03/20/2024 Analyzed: 03/25/2024					
Fluorene	0.210	0.020	mg/kg	0.200	ND	105	70-130	0.558	20	
Indeno (1,2,3-cd) pyrene	0.211	0.020	"	0.200	0.013	98.8	70-130	2.49	20	
Naphthalene	0.211	0.002	"	0.200	ND	105	70-130	0.962	20	
Phenanthrene	0.209	0.020	"	0.200	0.001	104	70-130	7.24	20	
Pyrene	0.246	0.020	"	0.200	0.005	120	70-130	29.1	20	QR-02
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	190		"	200		94.6	60-130			
Surrogate: Pyrene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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 - Megan H 16-33 O SA

## 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 B4C2127 - Saturated Paste Metals

##### Blank (B4C2127-BLK1)

Prepared: 03/21/2024 Analyzed: 03/22/2024

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

##### Duplicate (B4C2127-DUP1)

Source: Y403550-05

Prepared: 03/21/2024 Analyzed: 03/22/2024

SAR	ND	0.0100	SAR	7.08		200
Calcium PPM	271	10.0	mg/L	277	2.29	50
Magnesium PPM	218	10.0	"	212	2.71	50
Sodium PPM	742	10.0	"	643	14.2	50

#### Batch B4C2128 - Saturated Paste Metals

##### Blank (B4C2128-BLK1)

Prepared: 03/21/2024 Analyzed: 03/28/2024

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

##### Duplicate (B4C2128-DUP1)

Source: Y403557-03

Prepared: 03/21/2024 Analyzed: 03/28/2024

SAR	ND	0.0100	SAR	2.22		200
Calcium PPM	155	10.0	mg/L	178	14.0	50
Magnesium PPM	52.2	10.0	"	59.4	13.0	50
Sodium PPM	120	10.0	"	134	10.5	50

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C2131 - Saturated Paste pH/EC</b>										
<b>Duplicate (B4C2131-DUP1)</b>		<b>Source: Y403550-05</b>			Prepared: 03/21/2024 Analyzed: 03/22/2024					
pH	8.07		pH Units		8.07			0.00	25	
<b>Batch B4C2132 - Saturated Paste pH/EC</b>										
<b>Duplicate (B4C2132-DUP1)</b>		<b>Source: Y403557-03</b>			Prepared: 03/21/2024 Analyzed: 03/22/2024					
pH	8.13		pH Units		8.15			0.246	25	

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Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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April 04, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H 16-33 O SA received by Origins Laboratory, Inc. March 21, 2024. This project is associated with Origins project number Y403591-01.

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 - Megan H 16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B29@35'	Y403591-01	Soil	March 21, 2024 14:25	03/21/2024 16:02

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 - Megan H 16-33 O SA

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

### Sample Receipt Checklist

Origins Work Order: 4403591 Client: Eagle  
Client Project ID: Megan H 16-33  
Checklist Completed by: JMB/SA Shipped Via: HV  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 3/21/24 Airbill #: N/A  
Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
Cooler Number/Temperature: 153 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JMB Date/Time Reviewed 3/21/24

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-B29@35'  
3/21/2024 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403591-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	35.1	25.0	mg/kg	1	B4C2103	ADM	03/21/2024	03/22/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 98.0 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0473	0.00200	mg/kg	1	B4C2134	HKS	03/21/2024	03/22/2024	
1,3,5-Trimethylbenzene	0.0320	0.00200	"	"	"	HKS	"	"	
Benzene	0.0253	0.00200	"	"	"	HKS	"	"	
Ethylbenzene	0.00764	0.00200	"	"	"	HKS	"	"	
Toluene	0.0237	0.00200	"	"	"	HKS	"	"	
Xylenes, total	0.146	0.00200	"	"	"	HKS	"	"	
Gasoline Range Hydrocarbons	2.77	0.200	"	"	"	HKS	"	"	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "

Surrogate: Toluene-d8 99.4 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	03/22/2024	03/27/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	3.62	0.435	"	"	"	ACC	"	"	

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 - Megan H 16-33 O SA

PW-B29@35'  
3/21/2024 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403591-01 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	0.012	0.002	mg/kg	1	B4C2135	Windo	03/21/2024	03/22/2024	
2-Methylnaphthalene	0.031	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	0.004	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.6 %	60-130			"	"	"	
Surrogate: Anthracene-d10	96.2 %	60-130			"	"	"	
Surrogate: Pyrene-d10	105 %	60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %	60-130			"	"	"	

### pH in Soil by 9045D

pH	8.55		pH Units	1	B4C2210	GCG	03/22/2024	03/22/2024	
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### SAR by 20B Saturated Paste

SAR	5.39	0.0100	SAR	1	B4C2207	ACC	03/22/2024	03/27/2024	
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### Table 915 metals by EPA 6020B

Arsenic	0.846	0.253	mg/kg	10	B4C2140	HJD	03/21/2024	03/27/2024	
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-B29@35'

3/21/2024 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403591-01 (Soil)

## Table 915 metals by EPA 6020B

Barium	32.1	8.74	mg/kg	10	B4C2140	HJD	03/21/2024	03/27/2024
Cadmium	ND	0.0874	"	"	"	HJD	"	"
Selenium	ND	0.227	"	"	"	HJD	"	"

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 - Megan H 16-33 O SA

## 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 B4C2103 - EPA 3550B										
Blank (B4C2103-BLK1)					Prepared: 03/21/2024 Analyzed: 03/21/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.8	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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 B4C2103 - EPA 3550B										
LCS (B4C2103-BS1)					Prepared: 03/21/2024 Analyzed: 03/21/2024					
Diesel (C10-C28)	986	50.0	mg/kg	1000		98.6	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.4	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 - Megan H 16-33 O SA

## 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 B4C2103 - EPA 3550B

Matrix Spike (B4C2103-MS1)		Source: Y403575-01			Prepared: 03/21/2024 Analyzed: 03/21/2024					
Diesel (C10-C28)	989	50.0	mg/kg	1000	ND	98.9	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2103 - EPA 3550B										
Matrix Spike Dup (B4C2103-MSD1)		Source: Y403575-01			Prepared: 03/21/2024 Analyzed: 03/21/2024					
Diesel (C10-C28)	981	50.0	mg/kg	1000	ND	98.1	70-130	0.762	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	1.02	35	
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2134 - EPA 5030 (soil)										
Blank (B4C2134-BLK1)					Prepared: 03/21/2024 Analyzed: 03/21/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		115	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 - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C2134 - EPA 5030 (soil)</b>										
<b>LCS (B4C2134-BS1)</b>					Prepared: 03/21/2024 Analyzed: 03/21/2024					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.0976	0.00200	"	0.100		97.6	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.0988	0.00200	"	0.100		98.8	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	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 - Megan H 16-33 O SA

## 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 B4C2134 - EPA 5030 (soil)										
Matrix Spike (B4C2134-MS1)		Source: Y403575-01			Prepared: 03/21/2024 Analyzed: 03/22/2024					
1,2,4-Trimethylbenzene	0.0805	0.00200	mg/kg	0.100	ND	80.5	70-130			
1,3,5-Trimethylbenzene	0.0950	0.00200	"	0.100	ND	95.0	70-130			
Benzene	0.0849	0.00200	"	0.100	ND	84.9	70-130			
Ethylbenzene	0.128	0.00200	"	0.100	ND	128	70-130			
Naphthalene	0.0296	0.00380	"	0.100	ND	29.6	70-130			QM-07
Toluene	0.0866	0.00200	"	0.100	ND	86.6	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.227	0.00400	"	0.200	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		122	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 - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C2134 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B4C2134-MSD1)</b>	<b>Source: Y403575-01</b>				Prepared: 03/21/2024 Analyzed: 03/22/2024					
1,2,4-Trimethylbenzene	0.0787	0.00200	mg/kg	0.100	ND	78.7	70-130	2.34	20	
1,3,5-Trimethylbenzene	0.0886	0.00200	"	0.100	ND	88.6	70-130	6.91	20	
Benzene	0.0941	0.00200	"	0.100	ND	94.1	70-130	10.2	20	
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	15.3	20	
Naphthalene	0.0440	0.00380	"	0.100	ND	44.0	70-130	39.1	20	QM-07
Toluene	0.0917	0.00200	"	0.100	ND	91.7	70-130	5.70	20	
o-Xylene	0.0964	0.00200	"	0.100	ND	96.4	70-130	11.8	20	
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130	10.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	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 - Megan H 16-33 O SA

## 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 B4C2140 - EPA 3050B

##### Blank (B4C2140-BLK1)

Prepared: 03/21/2024 Analyzed: 03/27/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Selenium	ND	0.260	"

##### LCS (B4C2140-BS1)

Prepared: 03/21/2024 Analyzed: 03/27/2024

Arsenic	4.37	0.290	mg/kg	5.00	87.3	80-120
Barium	493	10.0	"	500	98.5	80-120
Cadmium	4.65	0.100	"	5.00	93.0	80-120
Selenium	10.6	0.260	"	9.50	112	80-120

##### Matrix Spike (B4C2140-MS1)

Source: Y403588-01

Prepared: 03/21/2024 Analyzed: 03/27/2024

Arsenic	5.62	0.243	mg/kg	4.19	0.997	110	75-125
Barium	442	8.39	"	419	42.5	95.2	75-125
Cadmium	3.92	0.0839	"	4.19	ND	93.4	75-125
Selenium	8.49	0.218	"	7.97	ND	107	75-125

##### Matrix Spike Dup (B4C2140-MSD1)

Source: Y403588-01

Prepared: 03/21/2024 Analyzed: 03/27/2024

Arsenic	5.85	0.252	mg/kg	4.34	0.997	112	75-125	4.08	20
Barium	454	8.67	"	434	42.5	94.9	75-125	2.78	20
Cadmium	4.01	0.0867	"	4.34	ND	92.5	75-125	2.29	20
Selenium	8.90	0.225	"	8.24	ND	108	75-125	4.67	20

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 - Megan H 16-33 O SA

**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 B4C2135 - EPA 3580**

**Blank (B4C2135-BLK1)**

Prepared: 03/21/2024 Analyzed: 03/21/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

**LCS (B4C2135-BS1)**

Prepared: 03/21/2024 Analyzed: 03/22/2024

1-Methylnaphthalene	0.203	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.205	0.002	"	0.200		102	70-130			
Acenaphthene	0.210	0.020	"	0.200		105	70-130			
Anthracene	0.207	0.020	"	0.200		104	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 - Megan H 16-33 O SA

**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 B4C2135 - EPA 3580**

**LCS (B4C2135-BS1)**

Prepared: 03/21/2024 Analyzed: 03/22/2024

Benzo (a) anthracene	0.202	0.005	mg/kg	0.200		101	70-130
Benzo (a) pyrene	0.189	0.020	"	0.200		94.7	70-130
Benzo (b) fluoranthene	0.217	0.020	"	0.200		109	70-130
Benzo (g,h,i) perylene	0.225	0.020	"	0.200		113	70-130
Benzo (k) fluoranthene	0.209	0.020	"	0.200		105	70-130
Chrysene	0.210	0.020	"	0.200		105	70-130
Dibenz (a,h) anthracene	0.226	0.020	"	0.200		113	70-130
Fluoranthene	0.201	0.020	"	0.200		101	70-130
Fluorene	0.203	0.020	"	0.200		101	70-130
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200		103	70-130
Naphthalene	0.212	0.002	"	0.200		106	70-130
Phenanthrene	0.204	0.020	"	0.200		102	70-130
Pyrene	0.212	0.020	"	0.200		106	70-130
Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130
Surrogate: Anthracene-d10	200		"	200		98.2	60-130
Surrogate: Pyrene-d10	200		"	200		101	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130

**Matrix Spike (B4C2135-MS1)**

**Source: Y403575-02**

Prepared: 03/21/2024 Analyzed: 03/22/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	ND	93.4	70-130
2-Methylnaphthalene	0.187	0.002	"	0.200	ND	93.7	70-130
Acenaphthene	0.192	0.020	"	0.200	ND	95.9	70-130
Anthracene	0.191	0.020	"	0.200	ND	95.5	70-130
Benzo (a) anthracene	0.184	0.005	"	0.200	ND	92.0	70-130
Benzo (a) pyrene	0.174	0.020	"	0.200	ND	86.8	70-130
Benzo (b) fluoranthene	0.195	0.020	"	0.200	ND	97.7	70-130
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	ND	102	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 - Megan H 16-33 O SA

**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 B4C2135 - EPA 3580**

Matrix Spike (B4C2135-MS1)		Source: Y403575-02			Prepared: 03/21/2024 Analyzed: 03/22/2024					
Benzo (k) fluoranthene	0.185	0.020	mg/kg	0.200	ND	92.7	70-130			
Chrysene	0.184	0.020	"	0.200	ND	91.8	70-130			
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130			
Fluoranthene	0.190	0.020	"	0.200	0.0005	94.7	70-130			
Fluorene	0.189	0.020	"	0.200	ND	94.6	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	ND	97.3	70-130			
Naphthalene	0.194	0.002	"	0.200	ND	96.8	70-130			
Phenanthrene	0.185	0.020	"	0.200	ND	92.6	70-130			
Pyrene	0.182	0.020	"	0.200	ND	90.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	190		"	200		96.8	60-130			
Surrogate: Pyrene-d10	190		"	200		95.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B4C2135-MSD1)		Source: Y403575-02			Prepared: 03/21/2024 Analyzed: 03/22/2024					
1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	ND	93.5	70-130	0.102	20	
2-Methylnaphthalene	0.187	0.002	"	0.200	ND	93.3	70-130	0.451	20	
Acenaphthene	0.191	0.020	"	0.200	ND	95.3	70-130	0.636	20	
Anthracene	0.188	0.020	"	0.200	ND	94.0	70-130	1.56	20	
Benzo (a) anthracene	0.183	0.005	"	0.200	ND	91.3	70-130	0.735	20	
Benzo (a) pyrene	0.183	0.020	"	0.200	ND	91.6	70-130	5.42	20	
Benzo (b) fluoranthene	0.199	0.020	"	0.200	ND	99.4	70-130	1.76	20	
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	ND	104	70-130	2.52	20	
Benzo (k) fluoranthene	0.178	0.020	"	0.200	ND	88.9	70-130	4.21	20	
Chrysene	0.180	0.020	"	0.200	ND	90.2	70-130	1.85	20	
Dibenz (a,h) anthracene	0.224	0.020	"	0.200	ND	112	70-130	3.62	20	
Fluoranthene	0.186	0.020	"	0.200	0.0005	92.8	70-130	2.00	20	

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 - Megan H 16-33 O SA

**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 B4C2135 - EPA 3580**

Matrix Spike Dup (B4C2135-MSD1)		Source: Y403575-02			Prepared: 03/21/2024 Analyzed: 03/22/2024					
Fluorene	0.189	0.020	mg/kg	0.200	ND	94.7	70-130	0.126	20	
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	ND	102	70-130	4.48	20	
Naphthalene	0.193	0.002	"	0.200	ND	96.5	70-130	0.264	20	
Phenanthrene	0.187	0.020	"	0.200	ND	93.5	70-130	1.00	20	
Pyrene	0.181	0.020	"	0.200	ND	90.6	70-130	0.347	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		96.5	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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 - Megan H 16-33 O SA

## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C2207 - Saturated Paste Metals</b>										
<b>Blank (B4C2207-BLK1)</b>					Prepared: 03/22/2024 Analyzed: 03/27/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B4C2207-DUP1)</b>					<b>Source: Y403575-01</b>		Prepared: 03/22/2024 Analyzed: 03/27/2024			
Calcium PPM	16.3	10.0	mg/L		21.7			28.8	50	
SAR	ND	0.0100	SAR		6.69				200	
Magnesium PPM	10.8	10.0	mg/L		14.3			27.3	50	
Sodium PPM	134	10.0	"		163			20.1	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 - Megan H 16-33 O SA

**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 B4C2210 - Saturated Paste pH/EC**

<b>Duplicate (B4C2210-DUP1)</b>			<b>Source: Y403575-01</b>		Prepared: 03/22/2024 Analyzed: 03/22/2024					
pH	8.25		pH Units		8.27			0.242	25	

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

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

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

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.



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April 03, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H 16-33 O SA received by Origins Laboratory, Inc. March 22, 2024. This project is associated with Origins project number Y403641-01.

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 - Megan H 16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-E14@33'	Y403641-01	Soil	March 22, 2024 14:45	03/22/2024 16:15

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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

Impacted Y4036M page 1 of 1

Client: Eagle Environmental (OS)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: coloccia@eagle-env.com

Project Manager: D. Coloccia  
Project Name: Megan H 16-33 O SA  
Project Number: -  
Samples Collected By: SC

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	Preservative				Matrix			Analysis				Sample Instructions	
			Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Canister #	Other	GC/MS	GC/MS		GC/MS
PW-E14 @ 33'	3/11/14	1445	X					X				X	X	X	# Metals, Run for 1
															Arsenic, Barium, 2
															Cadmium, Selenium, 3
															4
															* PAHs, Run for 5
															1,2-dimethyl, Pyrene, 6
															anthracene, chrysene, 7
															fluoranthene, 8
															fluorene, 9
															10

*added per email 3/25/14*

*Cu, Pb, Ni*

Relinquished By: [Signature] Date: 3/22/2014 Time: 1415

Relinquished By: [Signature] Date: 3/22/2014 Time: 1415

Received By: [Signature] Date: 3/22/14 Time: 1415

Received By: [Signature] Date: 3/22/14 Time: 1415

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

Temp Received: 7 Date Results Needed

Origins Laboratory, Inc.

*J. Bynon*

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 - Megan H 16-33 O SA

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

**Sample Receipt Checklist**

Origins Work Order: 4403641 Client: Eagle  
Client Project ID: Megan H 16-33  
Checklist Completed by: EH5/SA Shipped Via: FIO  
Date/time completed: 3/22/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
Cooler Number/Temperature: 118 °C 1 °C 1 °C (Describe) °C  
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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed 3/27/24

Origins Laboratory, Inc.

*J. Bynon*

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 - Megan H 16-33 O SA

PW-E14@33'  
3/22/2024 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y403641-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4C2203	ADM	03/22/2024	03/23/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 82.9 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C2234	HK	03/22/2024	03/22/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 87.3 % 70-130 " " "  
Surrogate: Toluene-d8 95.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.2 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.629	0.499	meq/L	10	[CALC]	ACC	03/23/2024	03/28/2024
Magnesium	0.993	0.823	"	"	"	ACC	"	"
Sodium	7.22	0.435	"	"	"	ACC	"	"

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-E14@33'  
3/22/2024 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403641-01 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C2224	Windo	03/22/2024	03/23/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.57	pH Units	1	B4C2308	EAL	03/23/2024	03/25/2024
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**SAR by 20B Saturated Paste**

SAR	8.01	0.0100	SAR	1	B4C2303	ACC	03/23/2024	03/28/2024
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**Table 915 metals by EPA 6020B**

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-E14@33'  
3/22/2024 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403641-01 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.60	0.251	mg/kg	10	B4C2228	KMC	03/22/2024	03/28/2024
Barium	73.6	8.66	"	"	"	KMC	"	"
Cadmium	ND	0.0866	"	"	"	KMC	"	"
Copper	12.1	8.66	"	"	"	KMC	"	"
Lead	10.3	0.866	"	"	"	KMC	"	"
Nickel	16.5	0.866	"	"	"	KMC	"	"
Selenium	ND	0.225	"	"	"	KMC	"	"

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## 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 B4C2203 - EPA 3550B										
Blank (B4C2203-BLK1)					Prepared: 03/22/2024 Analyzed: 03/22/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.7	50-150			

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Wheat Ridge CO 80033

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Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2203 - EPA 3550B										
LCS (B4C2203-BS1)					Prepared: 03/22/2024 Analyzed: 03/22/2024					
Diesel (C10-C28)	919	50.0	mg/kg	1000		91.9	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	58		"	49.8		118	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2203 - EPA 3550B

Matrix Spike (B4C2203-MS1)		Source: Y403495-01			Prepared: 03/22/2024 Analyzed: 03/22/2024					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	1190	200	"	1000	ND	119	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Project Number: [none]  
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## 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 B4C2203 - EPA 3550B

Matrix Spike Dup (B4C2203-MSD1)		Source: Y403495-01			Prepared: 03/22/2024 Analyzed: 03/22/2024					
Diesel (C10-C28)	969	50.0	mg/kg	1000	ND	96.9	70-130	10.9	35	
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130	7.85	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Project: KMG - Megan H 16-33 O SA

## 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 B4C2234 - EPA 5030 (soil)										
Blank (B4C2234-BLK1)					Prepared: 03/22/2024 Analyzed: 03/22/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.099		"	0.125		79.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.4	70-130			

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Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C2234 - EPA 5030 (soil)</b>										
<b>LCS (B4C2234-BS1)</b>					Prepared: 03/22/2024 Analyzed: 03/22/2024					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.0963	0.00200	"	0.100		96.3	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.096		"	0.125		76.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2234 - EPA 5030 (soil)										
Matrix Spike (B4C2234-MS1)		Source: Y403641-01			Prepared: 03/22/2024 Analyzed: 03/22/2024					
1,2,4-Trimethylbenzene	0.0753	0.00200	mg/kg	0.100	ND	75.3	70-130			
1,3,5-Trimethylbenzene	0.0751	0.00200	"	0.100	ND	75.1	70-130			
Benzene	0.0754	0.00200	"	0.100	0.00186	73.6	70-130			
Ethylbenzene	0.0729	0.00200	"	0.100	ND	72.9	70-130			
Naphthalene	0.0830	0.00380	"	0.100	0.000840	82.2	70-130			
Toluene	0.0684	0.00200	"	0.100	ND	68.4	70-130			QM-07
o-Xylene	0.0694	0.00200	"	0.100	ND	69.4	70-130			QM-07
m,p-Xylene	0.148	0.00400	"	0.200	ND	74.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2234 - EPA 5030 (soil)										
Matrix Spike Dup (B4C2234-MSD1)		Source: Y403641-01			Prepared: 03/22/2024 Analyzed: 03/22/2024					
1,2,4-Trimethylbenzene	0.0768	0.00200	mg/kg	0.100	ND	76.8	70-130	1.89	20	
1,3,5-Trimethylbenzene	0.0782	0.00200	"	0.100	ND	78.2	70-130	4.10	20	
Benzene	0.0772	0.00200	"	0.100	0.00186	75.4	70-130	2.36	20	
Ethylbenzene	0.0749	0.00200	"	0.100	ND	74.9	70-130	2.71	20	
Naphthalene	0.0835	0.00380	"	0.100	0.000840	82.6	70-130	0.553	20	
Toluene	0.0702	0.00200	"	0.100	ND	70.2	70-130	2.68	20	
o-Xylene	0.0712	0.00200	"	0.100	ND	71.2	70-130	2.50	20	
m,p-Xylene	0.151	0.00400	"	0.200	ND	75.3	70-130	1.43	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2228 - EPA 3050B

#### Blank (B4C2228-BLK1)

Prepared: 03/22/2024 Analyzed: 03/28/2024

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 (B4C2228-BS1)

Prepared: 03/22/2024 Analyzed: 03/28/2024

Arsenic	4.45	0.290	mg/kg	5.00	89.0	80-120
Barium	482	10.0	"	500	96.3	80-120
Cadmium	4.62	0.100	"	5.00	92.4	80-120
Copper	47.8	10.0	"	50.0	95.5	80-120
Lead	4.29	1.00	"	5.00	85.9	80-120
Nickel	4.14	1.00	"	5.00	82.9	80-120
Selenium	10.2	0.260	"	9.50	108	80-120
Silver	4.49	0.100	"	5.00	89.8	80-120
Zinc	48.2	37.0	"	50.0	96.5	80-120

#### Matrix Spike (B4C2228-MS1)

Source: Y403642-15

Prepared: 03/22/2024 Analyzed: 03/28/2024

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Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B4C2228 - EPA 3050B

Matrix Spike (B4C2228-MS1)		Source: Y403642-15			Prepared: 03/22/2024 Analyzed: 03/28/2024					
Arsenic	8.78	0.251	mg/kg	4.33	4.44	100	75-125			
Barium	532	8.67	"	433	119	95.3	75-125			
Cadmium	4.19	0.0867	"	4.33	ND	96.7	75-125			
Copper	53.9	8.67	"	43.3	12.8	95.0	75-125			
Lead	16.2	0.867	"	4.33	11.6	108	75-125			
Nickel	16.2	0.867	"	4.33	12.1	94.4	75-125			
Selenium	9.45	0.225	"	8.23	ND	115	75-125			
Silver	3.84	0.0867	"	4.33	ND	88.5	75-125			
Zinc	91.0	32.1	"	43.3	48.6	98.0	75-125			
Matrix Spike Dup (B4C2228-MSD1)		Source: Y403642-15			Prepared: 03/22/2024 Analyzed: 03/28/2024					
Arsenic	8.65	0.269	mg/kg	4.64	4.44	90.8	75-125	1.54	20	
Barium	569	9.27	"	464	119	97.1	75-125	6.73	20	
Cadmium	4.54	0.0927	"	4.64	ND	97.9	75-125	7.93	20	
Copper	56.3	9.27	"	46.4	12.8	93.8	75-125	4.23	20	
Lead	16.1	0.927	"	4.64	11.6	98.1	75-125	0.854	20	
Nickel	16.6	0.927	"	4.64	12.1	96.8	75-125	2.44	20	
Selenium	10.3	0.241	"	8.81	ND	117	75-125	8.81	20	
Silver	4.13	0.0927	"	4.64	ND	89.1	75-125	7.43	20	
Zinc	92.8	34.3	"	46.4	48.6	95.3	75-125	1.89	20	

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C2224 - EPA 3580**

**Blank (B4C2224-BLK1)**

Prepared: 03/22/2024 Analyzed: 03/23/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	190		"	200		94.5	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

**LCS (B4C2224-BS1)**

Prepared: 03/22/2024 Analyzed: 03/23/2024

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200		92.7	70-130			
2-Methylnaphthalene	0.185	0.002	"	0.200		92.5	70-130			
Acenaphthene	0.190	0.020	"	0.200		94.9	70-130			
Anthracene	0.185	0.020	"	0.200		92.3	70-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C2224 - EPA 3580**

**LCS (B4C2224-BS1)**

Prepared: 03/22/2024 Analyzed: 03/23/2024

Benzo (a) anthracene	0.169	0.005	mg/kg	0.200		84.7	70-130
Benzo (a) pyrene	0.178	0.020	"	0.200		89.0	70-130
Benzo (b) fluoranthene	0.200	0.020	"	0.200		100	70-130
Benzo (g,h,i) perylene	0.181	0.020	"	0.200		90.5	70-130
Benzo (k) fluoranthene	0.188	0.020	"	0.200		94.1	70-130
Chrysene	0.175	0.020	"	0.200		87.3	70-130
Dibenz (a,h) anthracene	0.182	0.020	"	0.200		91.0	70-130
Fluoranthene	0.172	0.020	"	0.200		86.1	70-130
Fluorene	0.192	0.020	"	0.200		96.1	70-130
Indeno (1,2,3-cd) pyrene	0.171	0.020	"	0.200		85.4	70-130
Naphthalene	0.192	0.002	"	0.200		95.8	70-130
Phenanthrene	0.180	0.020	"	0.200		89.8	70-130
Pyrene	0.192	0.020	"	0.200		96.0	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130
Surrogate: Anthracene-d10	190		"	200		94.3	60-130
Surrogate: Pyrene-d10	200		"	200		101	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.9	60-130

**Matrix Spike (B4C2224-MS1)**

**Source: Y403628-01**

Prepared: 03/22/2024 Analyzed: 03/23/2024

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	0.017	90.8	70-130
2-Methylnaphthalene	0.197	0.002	"	0.200	0.017	90.3	70-130
Acenaphthene	0.202	0.020	"	0.200	0.009	96.2	70-130
Anthracene	0.193	0.020	"	0.200	0.001	95.7	70-130
Benzo (a) anthracene	0.199	0.005	"	0.200	0.0005	99.4	70-130
Benzo (a) pyrene	0.200	0.020	"	0.200	0.003	98.6	70-130
Benzo (b) fluoranthene	0.225	0.020	"	0.200	ND	112	70-130
Benzo (g,h,i) perylene	0.181	0.020	"	0.200	ND	90.6	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 - Megan H 16-33 O SA

**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 B4C2224 - EPA 3580**

Matrix Spike (B4C2224-MS1)		Source: Y403628-01			Prepared: 03/22/2024 Analyzed: 03/23/2024					
Benzo (k) fluoranthene	0.213	0.020	mg/kg	0.200	0.002	106	70-130			
Chrysene	0.194	0.020	"	0.200	0.004	94.7	70-130			
Dibenz (a,h) anthracene	0.183	0.020	"	0.200	ND	91.7	70-130			
Fluoranthene	0.189	0.020	"	0.200	0.0007	94.3	70-130			
Fluorene	0.205	0.020	"	0.200	0.012	96.4	70-130			
Indeno (1,2,3-cd) pyrene	0.175	0.020	"	0.200	ND	87.4	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	99.9	70-130			
Phenanthrene	0.198	0.020	"	0.200	0.016	91.2	70-130			
Pyrene	0.188	0.020	"	0.200	0.0004	93.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.1	60-130			
Surrogate: Pyrene-d10	190		"	200		92.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B4C2224-MSD1)		Source: Y403628-01			Prepared: 03/22/2024 Analyzed: 03/23/2024					
1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	0.017	91.5	70-130	0.696	20	
2-Methylnaphthalene	0.201	0.002	"	0.200	0.017	92.0	70-130	1.73	20	
Acenaphthene	0.205	0.020	"	0.200	0.009	98.0	70-130	1.77	20	
Anthracene	0.198	0.020	"	0.200	0.001	98.5	70-130	2.93	20	
Benzo (a) anthracene	0.188	0.005	"	0.200	0.0005	93.8	70-130	5.80	20	
Benzo (a) pyrene	0.180	0.020	"	0.200	0.003	88.8	70-130	10.4	20	
Benzo (b) fluoranthene	0.173	0.020	"	0.200	ND	86.5	70-130	26.0	20	QR-02
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	ND	91.9	70-130	1.42	20	
Benzo (k) fluoranthene	0.159	0.020	"	0.200	0.002	78.7	70-130	29.0	20	QR-02
Chrysene	0.208	0.020	"	0.200	0.004	102	70-130	7.36	20	
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	ND	102	70-130	10.3	20	
Fluoranthene	0.193	0.020	"	0.200	0.0007	96.0	70-130	1.72	20	

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C2224 - EPA 3580**

Matrix Spike Dup (B4C2224-MSD1)		Source: Y403628-01			Prepared: 03/22/2024 Analyzed: 03/23/2024					
Fluorene	0.207	0.020	mg/kg	0.200	0.012	97.4	70-130	0.954	20	
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	94.9	70-130	8.24	20	
Naphthalene	0.196	0.002	"	0.200	ND	98.2	70-130	1.73	20	
Phenanthrene	0.204	0.020	"	0.200	0.016	94.3	70-130	3.07	20	
Pyrene	0.189	0.020	"	0.200	0.0004	94.5	70-130	0.926	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	190		"	200		93.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.7	60-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C2303 - Saturated Paste Metals</b>										
<b>Blank (B4C2303-BLK1)</b>					Prepared: 03/23/2024 Analyzed: 03/28/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B4C2303-DUP1)</b>					<b>Source: Y403626-01</b>		Prepared: 03/23/2024 Analyzed: 03/28/2024			
Calcium PPM	364	10.0	mg/L		161			77.5	50	QR-DUP
SAR	ND	0.0100	SAR		1.34				200	
Magnesium PPM	220	10.0	mg/L		94.7			79.7	50	QR-DUP
Sodium PPM	169	10.0	"		86.5			64.7	50	QR-DUP

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B4C2308 - Saturated Paste pH/EC**

<b>Duplicate (B4C2308-DUP1)</b>		<b>Source: Y403626-01</b>			Prepared: 03/23/2024 Analyzed: 03/25/2024					
pH	7.92		pH Units		8.04			1.50	25	

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

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

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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May 03, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. April 18, 2023. This project is associated with Origins project number Y304404-01.

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 - Megan H16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B01@3"	Y304404-01	Soil	April 18, 2023 10:33	04/18/2023 16:00
AST-B03@3"	Y304404-02	Soil	April 18, 2023 10:36	04/18/2023 16:00
AST-B05@3"	Y304404-03	Soil	April 18, 2023 10:38	04/18/2023 16:00

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

Initial Y304404 page 1 of 1

Client: Eagle Environmental (094)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia  
Project Name: Megan H16-33 O SA  
Project Number: LL/CB  
Samples Collected By: LL/CB

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Canister #	Other	TPH	EC/PH		SAR
AST-B01@3"	4/18/23	10:33	3	X					X				X	X	X	Remainina Table 715 added to AST-B01@3" per Alies email on 4/18/23
AST-B03@3"	4/18/23	10:36	3	X					X				X	X	X	
AST-B05@3"	4/18/23	10:38	3	X					X				X	X	X	
																5
																6
																7
																8
																9
																10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>Dan Coloccia</u>	4/18/23	1600	<u>Y304404</u>	4/18/23	1600	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Temp Received: 6.0 Date Results Needed

Origins Laboratory, Inc.

*J. Bynon*

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 - Megan H16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4304404

Client: Eagle

Client Project ID: Megan H16-33 O SA

Checklist Completed by: EHS/TSK

Shipped Via: HD

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

Date/time completed: 4/18/23

Airbill #: NA

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

Cooler Number/Temperature: 110 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) CS

Date/Time Reviewed 4/18/23

Origins Laboratory, Inc.

*Byron*

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 - Megan H16-33 O SA

AST-B01@3"

4/18/2023 10:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304404-01 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.0989	mg/L	1	B3D1911	04/19/2023	04/20/2023	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D1834	04/18/2023	04/19/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.2 %	50-150	"	"	"	"	"	
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D1832	04/18/2023	04/18/2023	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

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 - Megan H16-33 O SA

## AST-B01@3"

4/18/2023 10:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304404-01 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			B3D1 32	04/1 /2023	04/18/2023	
Surrogate: Toluene-d8	96.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %		70-130			"	"	"	

### Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	04/19/2023	04/21/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	7.98		0.435	"	"	"	"	"	

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L678953	04/28/2023	04/30/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## AST-B01@3"

4/18/2023 10:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC. Y304404-01 (Soil)

### PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L678953	04/28/2023	04/30/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	49.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.6 %	33-122	"	"	"
Surrogate: itrobenzene-d5	52 %	29-110	"	"	"

### pH in Soil by 9045D

pH	9.61	pH Units	1	B3D1917	04/19/2023	04/20/2023
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### SAR by 20B Saturated Paste

SAR	23.9	SAR	1	B3D1909	04/19/2023	04/21/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.774	0.00500	mmhos/cm	1	B3D1917	04/19/2023	04/20/2023
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### Table 915 metals by EPA 6020B

Arsenic	2.77	0.0905	mg/kg	10	B3D2609	04/26/2023	04/27/2023
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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 - Megan H16-33 O SA

AST-B01@3"

4/18/2023 10:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304404-01 (Soil)

## Table 915 metals by EPA 6020B

Barium	61.9	9.05	mg/kg	10	B3D2609	04/26/2023	04/27/2023
Cadmium	ND	0.0905	"	"	"	"	"
Copper	ND	9.05	"	"	"	"	"
Lead	ND	9.05	"	"	"	"	"
Nickel	ND	9.05	"	"	"	"	"
Selenium	0.212	0.0905	"	"	"	"	"
Silver	ND	0.0905	"	"	"	"	"
Zinc	ND	90.5	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L679241	04/18/2023	05/01/2023
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## AST-B03@3"

4/18/2023 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304404-02 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.103	0.0994	mg/L	1	B3D1911	04/19/2023	04/20/2023	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D1834	04/18/2023	04/19/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.4 %	50-150			"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D1832	04/18/2023	04/18/2023	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

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 - Megan H16-33 O SA

## AST-B03@3"

4/18/2023 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304404-02 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	B3D1 32	04/1 /2023	04/18/2023
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.3 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	2.13	0.499	meq/L	10	[CALC]	04/19/2023	04/21/2023
Magnesium	1.80	0.823	"	"	"	"	"
Sodium	0.785	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	8.28	pH Units	1	B3D1917	04/19/2023	04/20/2023
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### SAR by 20B Saturated Paste

SAR	0.559	SAR	1	B3D1909	04/19/2023	04/21/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.514	0.00500	mmhos/cm	1	B3D1917	04/19/2023	04/20/2023
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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 - Megan H16-33 O SA

## AST-B05@3"

4/18/2023 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304404-03 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.348	0.0991	mg/L	1	B3D1911	04/19/2023	04/20/2023	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D1834	04/18/2023	04/19/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.0 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D1832	04/18/2023	04/19/2023	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

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## AST-B05@3"

4/18/2023 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304404-03 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	B3D132	04/1 /2023	04/19/2023
Surrogate: Toluene-d8	97.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.6 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	5.21	0.499	meq/L	10	[CALC]	04/19/2023	04/21/2023
Magnesium	4.43	0.823	"	"	"	"	"
Sodium	0.454	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	8.30	pH Units	1	B3D1917	04/19/2023	04/20/2023
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### SAR by 20B Saturated Paste

SAR	0.207	SAR	1	B3D1909	04/19/2023	04/21/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.46	0.00500	mmhos/cm	1	B3D1917	04/19/2023	04/20/2023
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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1832 - EPA 5030 (soil)</b>										
<b>Blank (B3D1832-BLK1)</b>					Prepared: 04/18/2023 Analyzed: 04/18/2023					
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	101		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	90.8		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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1832 - EPA 5030 (soil)</b>										
<b>LCS (B3D1832-BS1)</b>					Prepared: 04/18/2023 Analyzed: 04/18/2023					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1832 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3D1832-MS1)</b>		<b>Source: Y304395-01</b>			Prepared: 04/18/2023 Analyzed: 04/18/2023					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.0978	0.00200	"	0.100	ND	97.8	70-130			
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130			
Toluene	0.0993	0.00200	"	0.100	ND	99.3	70-130			
o-Xylene	0.0998	0.00200	"	0.100	ND	99.8	70-130			
m,p-Xylene	0.200	0.00400	"	0.200	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1832 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3D1832-MSD1)</b>	<b>Source: Y304395-01</b>				Prepared: 04/18/2023 Analyzed: 04/18/2023					
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130	2.38	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	3.70	20	
Benzene	0.0969	0.00200	"	0.100	ND	96.9	70-130	4.40	20	
Ethylbenzene	0.0924	0.00200	"	0.100	ND	92.4	70-130	5.72	20	
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130	0.293	20	
Toluene	0.0978	0.00200	"	0.100	ND	97.8	70-130	1.56	20	
o-Xylene	0.0947	0.00200	"	0.100	ND	94.7	70-130	5.18	20	
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.4	70-130	5.94	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**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 B3D1834 - EPA 3550B										
Blank (B3D1834-BLK1)					Prepared: 04/18/2023 Analyzed: 04/18/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.3	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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 B3D1834 - EPA 3550B										
LCS (B3D1834-BS1)					Prepared: 04/18/2023 Analyzed: 04/18/2023					
Diesel (C10-C28)	928	50.0	mg/kg	1000		92.8	70-130			
Residual Range Organics (C28-C40)	955	200	"	1000		95.5	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.8	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 - Megan H16-33 O SA

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 B3D1834 - EPA 3550B

Matrix Spike (B3D1834-MS1)		Source: Y304395-01			Prepared: 04/18/2023 Analyzed: 04/18/2023					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.6	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 - Megan H16-33 O SA

## 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 B3D1834 - EPA 3550B										
Matrix Spike Dup (B3D1834-MSD1)		Source: Y304395-01			Prepared: 04/18/2023 Analyzed: 04/18/2023					
Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	70-130	8.58	35	
Residual Range Organics (C28-C40)	987	200	"	1000	ND	98.7	70-130	8.59	35	
Surrogate: o-Terphenyl	49		"	49.8		98.7	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B3D2609 - EPA 3050B

#### Blank (B3D2609-BLK1)

Prepared: 04/26/2023 Analyzed: 04/27/2023

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

#### LCS (B3D2609-BS1)

Prepared: 04/26/2023 Analyzed: 04/27/2023

Arsenic	0.0510	0.000100	mg/kg	0.0500	102	80-120
Barium	5.29	0.0100	"	5.00	106	80-120
Cadmium	0.0515	0.000100	"	0.0500	103	80-120
Copper	0.538	0.0100	"	0.500	108	80-120
Lead	0.0518	0.0100	"	0.0500	104	80-120
Nickel	0.0540	0.0100	"	0.0500	108	80-120
Selenium	0.0469	0.000100	"	0.0500	93.7	80-120
Silver	0.0526	0.000100	"	0.0500	105	80-120
Zinc	0.513	0.100	"	0.500	103	80-120

#### Matrix Spike (B3D2609-MS1)

Source: Y304519-02

Prepared: 04/26/2023 Analyzed: 04/27/2023

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2609 - EPA 3050B</b>										
<b>Matrix Spike (B3D2609-MS1)</b>			<b>Source: Y304519-02</b>		Prepared: 04/26/2023 Analyzed: 04/27/2023					
Arsenic	5.69	0.0951	mg/kg	4.76	1.42	89.7	75-125			
Barium	526	9.51	"	476	276	52.6	75-125			QM-07
Cadmium	4.80	0.0951	"	4.76	0.0600	99.7	75-125			
Copper	50.9	9.51	"	47.6	3.18	100	75-125			
Lead	7.52	9.51	"	4.76	9.43	NR	75-125			QM-07
Nickel	7.88	9.51	"	4.76	3.44	93.4	75-125			
Selenium	4.44	0.0951	"	4.76	ND	93.3	75-125			
Silver	4.96	0.0951	"	4.76	0.0173	104	75-125			
Zinc	59.9	95.1	"	47.6	14.9	94.5	75-125			
<b>Matrix Spike Dup (B3D2609-MSD1)</b>			<b>Source: Y304519-02</b>		Prepared: 04/26/2023 Analyzed: 04/27/2023					
Arsenic	5.59	0.0913	mg/kg	4.57	1.42	91.2	75-125	1.83	20	
Barium	514	9.13	"	457	276	52.1	75-125	2.42	20	QM-07
Cadmium	4.68	0.0913	"	4.57	0.0600	101	75-125	2.53	20	
Copper	49.8	9.13	"	45.7	3.18	102	75-125	2.22	20	
Lead	7.44	9.13	"	4.57	9.43	NR	75-125	1.12	20	QM-07
Nickel	8.01	9.13	"	4.57	3.44	100	75-125	1.54	20	
Selenium	4.07	0.0913	"	4.57	ND	89.1	75-125	8.62	20	
Silver	4.87	0.0913	"	4.57	0.0173	106	75-125	1.75	20	
Zinc	58.5	91.3	"	45.7	14.9	95.4	75-125	2.32	20	

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 - Megan H16-33 O SA

## 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 B3D1909 - Saturated Paste Metals

##### Blank (B3D1909-BLK1)

Prepared: 04/19/2023 Analyzed: 04/21/2023

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

##### Duplicate (B3D1909-DUP1)

Source: Y304400-04

Prepared: 04/19/2023 Analyzed: 04/21/2023

Calcium PPM	6.55	10.0	mg/L	5.96	9.41	50
SAR	0.00		SAR	0.163	200	200
Magnesium PPM	2.52	10.0	mg/L	2.18	14.4	50
Sodium PPM	1.72	10.0	"	1.83	6.43	50

#### Batch B3D1911 - DTPA Sorbitol Preparation

##### Blank (B3D1911-BLK1)

Prepared: 04/19/2023 Analyzed: 04/20/2023

Boron	ND	0.100	mg/L
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##### Duplicate (B3D1911-DUP1)

Source: Y304395-01

Prepared: 04/19/2023 Analyzed: 04/20/2023

Boron	11.9	0.0986	mg/L	11.9	0.568	50
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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1917 - Saturated Paste pH/EC</b>										
<b>Blank (B3D1917-BLK1)</b>					Prepared: 04/19/2023 Analyzed: 04/20/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3D1917-DUP1)</b>					<b>Source: Y304400-04</b> Prepared: 04/19/2023 Analyzed: 04/20/2023					
pH	7.37		pH Units		7.41			0.541	25	
Specific Conductance (EC)	0.0666	0.00500	mmhos/cm		0.0621			6.99	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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L678953 - 3550B**

MSD (L 83365-MSD-L678953)		Source: 83365			Prepared: 04/28/2023 Analyzed: 04/30/2023					
Fluorene	0.0973	0.00067	mg/Kg	0.163	<0.000286	59.6	30-130	9.4	30	
Pyrene	0.1	0.00067	"	0.163	<0.000643	61.3	30-130	13.9	30	
1-Methylnaphthalene	0.0972	0.00201	"	0.163	<0.00109	59.6	30-130	5.7	30	
2-Methylnaphthalene	0.0941	0.00201	"	0.163	<0.00194	57.7	30-130	6	30	
Indeno(1,2,3-cd)pyrene	0.0687	0.00067	"	0.163	<0.000627	42.1	30-130	44.4	30	
Acenaphthene	0.0947	0.00067	"	0.163	<0.000304	58	30-130	11.2	30	
Anthracene	0.0965	0.00067	"	0.163	<0.000334	59.2	30-130	17.4	30	
Benzo(a)anthracene	0.102	0.00067	"	0.163	<0.000493	62.5	30-130	11.1	30	
Benzo(b)fluoranthene	0.0939	0.00067	"	0.163	<0.000585	57.6	30-130	15.7	30	
Benzo(k)fluoranthene	0.0854	0.00067	"	0.163	<0.000437	52.3	30-130	15.5	30	
Chrysene	0.0995	0.00067	"	0.163	<0.000624	61	30-130	14.4	30	
Dibenz(a,h)anthracene	0.0717	0.00067	"	0.163	<0.000614	43.9	30-130	41.2	30	
Fluoranthene	0.0998	0.00067	"	0.163	<0.000394	61.2	30-130	13.2	30	
Benzo(a)pyrene	0.0993	0.00067	"	0.163	<0.000468	60.9	30-130	15.5	30	
Surrogate: 4-Terphenyl-d14	60.4		"	0.326	234	60.4	33-122			
Surrogate: itrobenzene-d5	53.9		"	0.326	198	53.9	29-110			
Surrogate: 2- luorobiphenyl	58.8		"	0.326	208	58.8	33-115			

MS (L 83365-MS-L678953)		Source: 83365			Prepared: 04/28/2023 Analyzed: 04/30/2023					
Benzo(k)fluoranthene	0.0998	0.00067	mg/Kg	0.166	<0.000437	60.1	30-130			
Pyrene	0.115	0.00067	"	0.166	<0.000643	69.2	30-130			
Chrysene	0.115	0.00067	"	0.166	<0.000624	69.2	30-130			
Dibenz(a,h)anthracene	0.109	0.00067	"	0.166	<0.000614	65.6	30-130			
Fluoranthene	0.114	0.00067	"	0.166	<0.000394	68.6	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.00067	"	0.166	<0.000627	65	30-130			
Benzo(a)anthracene	0.114	0.00067	"	0.166	<0.000493	68.6	30-130			
Fluorene	0.107	0.00067	"	0.166	<0.000286	64.4	30-130			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L678953 - 3550B**

MS (L 83365-MS-L678953)		Source: 83365			Prepared: 04/28/2023 Analyzed: 04/30/2023					
Anthracene	0.115	0.00067	mg/Kg	0.166	<0.000334	69.2	30-130			
Acenaphthene	0.106	0.00067	"	0.166	<0.000304	63.8	30-130			
2-Methylnaphthalene	0.1	0.00201	"	0.166	<0.00194	60.2	30-130			
1-Methylnaphthalene	0.103	0.00201	"	0.166	<0.00109	62	30-130			
Benzo(b)fluoranthene	0.11	0.00067	"	0.166	<0.000585	66.2	30-130			
Benzo(a)pyrene	0.116	0.00067	"	0.166	<0.000468	69.8	30-130			
Surrogate: itrobenzene-d5	63.1		"	0.331	198	63.1	29-110			
Surrogate: 4-Terphenyl-d14	68.5		"	0.331	234	68.5	33-122			
Surrogate: 2- luorobiphenyl	61.3		"	0.331	208	61.3	33-115			

LCS (LCS-L678953)		Prepared: 04/28/2023 Analyzed: 04/30/2023								
Pyrene	0.113	0.00067	mg/Kg	0.167		67.6	30-130			
Benzo(b)fluoranthene	0.109	0.00067	"	0.167		65.2	30-130			
Benzo(k)fluoranthene	0.103	0.00067	"	0.167		61.6	30-130			
Chrysene	0.116	0.00067	"	0.167		69.4	30-130			
Fluoranthene	0.113	0.00067	"	0.167		67.6	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.167		70	30-130			
Dibenz(a,h)anthracene	0.102	0.00067	"	0.167		61	30-130			
Indeno(1,2,3-cd)pyrene	0.0979	0.00067	"	0.167		58.6	30-130			
Anthracene	0.107	0.00067	"	0.167		64	30-130			
Acenaphthene	0.103	0.00067	"	0.167		61.6	30-130			
2-Methylnaphthalene	0.0973	0.00201	"	0.167		58.2	30-130			
1-Methylnaphthalene	0.0996	0.00201	"	0.167		59.6	30-130			
Fluorene	0.107	0.00067	"	0.167		64	30-130			
Benzo(a)anthracene	0.112	0.00067	"	0.167		67	30-130			
Surrogate: itrobenzene-d5	63		"	0.333		63	29-110			
Surrogate: 4-Terphenyl-d14	72.3		"	0.333		72.3	33-122			

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L678953 - 3550B</b>										
<b>LCS (LCS-L678953)</b>					Prepared: 04/28/2023 Analyzed: 04/30/2023					
Surrogate: 2- luorobiphenyl	66		mg/ g	0.333		66	33-115			
<b>LRB (LRB-L678953)</b>					Prepared: 04/28/2023 Analyzed: 04/30/2023					
Indeno(1,2,3-cd)pyrene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 2- luorobiphenyl	64.5		"	0.333		64.5	33-115			
Surrogate: itrobenzene-d5	63		"	0.333		63	29-110			
Surrogate: 4-Terphenyl-d14	67.8		"	0.333		67.8	33-122			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L679241 -										
<b>DUP (L 84501-DUP)</b>	<b>Source: Y304404-01</b>				Prepared: Analyzed: 05/01/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
<b>MS (L 84501-MS)</b>	<b>Source: Y304404-01</b>				Prepared: Analyzed: 05/01/2023					
Chromium, Hexavalent	34.6	2.5	mg/Kg	39.6	<1.22	87	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 05/01/2023					
Chromium, Hexavalent	7.15	0.5	mg/Kg	8		89	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 05/01/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - Megan H16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

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

QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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May 05, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. April 25, 2023. This project is associated with Origins project number Y304567-01.

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 - Megan H16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B01@5'	Y304567-01	Soil	April 25, 2023 15:00	04/25/2023 17:30
PW-N01@2.5'	Y304567-02	Soil	April 25, 2023 15:02	04/25/2023 17:30
PW-S01@2.5'	Y304567-03	Soil	April 25, 2023 15:04	04/25/2023 17:30
PW-E01@2.5'	Y304567-04	Soil	April 25, 2023 15:06	04/25/2023 17:30
PW-W01@2.5'	Y304567-05	Soil	April 25, 2023 15:08	04/25/2023 17:30

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 - Megan H16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4304507

Client: Eagle

Client Project ID: Megan H16-33 O SA

Checklist Completed by: JH

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

Date/time completed: 4/25/23

Airbill #: NA

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

Cooler Number/Temperature: 1 / 4 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) JH

Date/Time Reviewed 4/25/23

Origins Laboratory, Inc.

*J. Bynon*

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 - Megan H16-33 O SA

PW-B01@5'  
4/25/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-01 (Soil)

## Boron (DTPA Sorbitol)

Boron	1.67	0.100	mg/L	1	B3D2614	04/26/2023	04/27/2023	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D2535	04/25/2023	04/26/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.6 %	50-150			"	"	"	
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	9.51	0.0500	mg/kg	25	B3D2533	04/25/2023	04/26/2023	
1,3,5-Trimethylbenzene	2.30	0.0500	"	"	"	"	"	
Benzene	1.62	0.0500	"	"	"	"	"	
Ethylbenzene	6.06	0.0500	"	"	"	"	"	
Toluene	ND	0.0500	"	"	"	"	"	R-05, U
Xylenes, total	11.2	0.0500	"	"	"	"	"	
Gasoline Range Hydrocarbons	2350	50.0	"	250	"	"	04/26/2023	

Surrogate: 1,2-Dichloroethane-d4	84.9 %	70-130			"	"	04/26/2023	
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	290 %	70-130			"	"	"	S-

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 - Megan H16-33 O SA

PW-B01@5'

4/25/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.732	0.499	meq/L	10	[CALC]	04/26/2023	04/28/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	12.9	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.969	0.0109	0.0201	mg/Kg	10	L679124	04/29/2023	04/30/2023
2-Methylnaphthalene	2.53	0.0194	0.0201	"	"	"	"	"
Acenaphthene	0.111	0.00304	0.0067	"	"	"	"	"
Anthracene	ND	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	0.00998	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"
Fluorene	0.0647	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	1.01	0.0145	0.0201	"	"	"	"	"
Pyrene	0.00795	0.00643	0.0067	"	"	"	"	"
Surrogate: 2- fluorobiphenyl	66.9 %		33-115			"	"	"

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 - Megan H16-33 O SA

PW-B01@5'

4/25/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y304567-01 (Soil)

## PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	69.3 %	33-122	1	04/2 /2023	04/30/2023
Surrogate: itrobenzene-d5	79.3 %	29-110	24	"	"

## pH in Soil by 9045D

pH	8.01	pH Units	1	B3D2623	04/26/2023	04/27/2023
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## SAR by 20B Saturated Paste

SAR	17.0	SAR	1	B3D2619	04/26/2023	04/28/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.971	0.00500	mmhos/cm	1	B3D2623	04/26/2023	04/27/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.09	0.0859	mg/kg	10	B3D2534	04/25/2023	04/25/2023
Barium	111	8.59	"	"	"	"	"
Cadmium	0.114	0.0859	"	"	"	"	"
Copper	ND	8.59	"	"	"	"	"
Lead	ND	8.59	"	"	"	"	"
Nickel	ND	8.59	"	"	"	"	"
Selenium	ND	0.0859	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B01@5'

4/25/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-01 (Soil)

### Table 915 metals by EPA 6020B

Silver	ND		0.0859	mg/kg	10	B3D2534	04/25/2023	04/25/2023
Zinc	ND		85.9	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L679327	04/25/2023	05/01/2023
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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 - Megan H16-33 O SA

PW-N01@2.5'  
4/25/2023 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304567-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.249	0.0984	mg/L	1	B3D2614	04/26/2023	04/27/2023
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	1320	25.0	mg/kg	1	B3D2535	04/25/2023	04/26/2023
Residual Range Organics (C28-C40)	162	100	"	"	"	"	"

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

1,2,4-Trimethylbenzene	0.0298	0.00200	mg/kg	1	B3D2533	04/25/2023	04/26/2023
1,3,5-Trimethylbenzene	0.0218	0.00200	"	"	"	"	"
Benzene	0.00220	0.00200	"	"	"	"	"
Ethylbenzene	ND	0.00200	"	"	"	"	" U
Toluene	ND	0.00200	"	"	"	"	" U
Xylenes, total	0.0211	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	0.899	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	81.2 %	70-130	"	"	"
Surrogate: Toluene-d8	93.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	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 - Megan H16-33 O SA

PW-N01@2.5'

4/25/2023 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-02 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	3.23	0.499	meq/L	10	[CALC]	04/26/2023	04/28/2023
Magnesium	1.54	0.823	"	"	"	"	"
Sodium	1.59	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00924	0.00109	0.00201	mg/Kg	1	L679124	04/29/2023	04/30/2023
2-Methylnaphthalene	0.0124	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.0013	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000457	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0021	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	0.00378	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"
Surrogate: 2- fluorobiphenyl	59.8 %		33-115			"	"	"

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 - Megan H16-33 O SA

## PW-N01@2.5'

4/25/2023 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC. Y304567-02 (Soil)

### PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	66.2 %	33-122				1 24	04/2 /2023	04/30/2023	
Surrogate: itrobenzene-d5	56.2 %	29-110				"	"	"	

### pH in Soil by 9045D

pH	8.16		pH Units	1	B3D2623	04/26/2023	04/27/2023	
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### SAR by 20B Saturated Paste

SAR	1.03		SAR	1	B3D2619	04/26/2023	04/28/2023	
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.676	0.00500	mmhos/cm	1	B3D2623	04/26/2023	04/27/2023	
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### Table 915 metals by EPA 6020B

Arsenic	2.78	0.0879	mg/kg	10	B3D2534	04/25/2023	04/25/2023	
Barium	87.2	8.79	"	"	"	"	"	
Cadmium	0.100	0.0879	"	"	"	"	"	
Copper	ND	8.79	"	"	"	"	"	
Lead	ND	8.79	"	"	"	"	"	
Nickel	ND	8.79	"	"	"	"	"	
Selenium	0.118	0.0879	"	"	"	"	"	
Silver	ND	0.0879	"	"	"	"	"	

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 - Megan H16-33 O SA

PW-N01@2.5'

4/25/2023 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-02 (Soil)

### Table 915 metals by EPA 6020B

Zinc	ND		87.9	mg/kg	10	B3D2534	04/25/2023	04/25/2023
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### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L679327	04/25/2023	05/01/2023
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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 - Megan H16-33 O SA

PW-S01@2.5'  
4/25/2023 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304567-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.875	0.0988	mg/L	1	B3D2614	04/26/2023	04/27/2023
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	198	25.0	mg/kg	1	B3D2535	04/25/2023	04/26/2023
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	89.5 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.242	0.00200	mg/kg	1	B3D2533	04/25/2023	04/26/2023
1,3,5-Trimethylbenzene	0.0651	0.00200	"	"	"	"	"
Benzene	0.00800	0.00200	"	"	"	"	"
Ethylbenzene	ND	0.00200	"	"	"	"	" U
Toluene	ND	0.00200	"	"	"	"	" U
Xylenes, total	0.0221	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	15.8	5.00	"	25	"	"	04/26/2023

Surrogate: 1,2-Dichloroethane-d4	77.2 %	70-130	"	"	04/26/2023
Surrogate: Toluene-d8	91.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	161 %	70-130	"	"	" S-

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 - Megan H16-33 O SA

PW-S01@2.5'

4/25/2023 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-03 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.31	0.499	meq/L	10	[CALC]	04/26/2023	04/28/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.01	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.0596	0.0109	0.0201	mg/Kg	10	L679124	04/29/2023	04/30/2023
2-Methylnaphthalene	0.0677	0.0194	0.0201	"	"	"	"	"
Acenaphthene	0.0112	0.00304	0.0067	"	"	"	"	"
Anthracene	ND	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	ND	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"
Fluorene	0.0137	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	ND	0.0145	0.0201	"	"	"	"	"
Pyrene	ND	0.00643	0.0067	"	"	"	"	"
Surrogate: 2- luorobiphenyl	63.4 %		33-115			"	"	"

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 - Megan H16-33 O SA

## PW-S01@2.5'

4/25/2023 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, LLC. Y304567-03 (Soil)

### PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	70.7 %	33-122				1 24	04/2 /2023	04/30/2023	
Surrogate: itrobenzene-d5	54.6 %	29-110				"	"	"	

### pH in Soil by 9045D

pH	7.93		pH Units	1	B3D2623	04/26/2023	04/27/2023	
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### SAR by 20B Saturated Paste

SAR	6.65		SAR	1	B3D2619	04/26/2023	04/28/2023	
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.747	0.00500	mmhos/cm	1	B3D2623	04/26/2023	04/27/2023	
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### Table 915 metals by EPA 6020B

Arsenic	2.17	0.0856	mg/kg	10	B3D2534	04/25/2023	04/25/2023	
Barium	121	8.56	"	"	"	"	"	
Cadmium	ND	0.0856	"	"	"	"	"	
Copper	ND	8.56	"	"	"	"	"	
Lead	ND	8.56	"	"	"	"	"	
Nickel	ND	8.56	"	"	"	"	"	
Selenium	0.222	0.0856	"	"	"	"	"	

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 - Megan H16-33 O SA

PW-S01@2.5'

4/25/2023 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-03 (Soil)

### Table 915 metals by EPA 6020B

Silver	ND	0.0856	mg/kg	10	B3D2534	04/25/2023	04/25/2023
Zinc	ND	85.6	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L679327	04/25/2023	05/01/2023
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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 - Megan H16-33 O SA

**PW-E01@2.5'**  
**4/25/2023 3:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304567-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.251	0.0993	mg/L	1	B3D2614	04/26/2023	04/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D2535	04/25/2023	04/26/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.4 %	50-150			"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	7.09	0.0500	mg/kg	25	B3D2533	04/25/2023	04/26/2023
1,3,5-Trimethylbenzene	7.34	0.0500	"	"	"	"	"
Benzene	1.50	0.0500	"	"	"	"	"
Ethylbenzene	2.72	0.0500	"	"	"	"	"
Toluene	0.130	0.0500	"	"	"	"	"
Xylenes, total	15.7	0.0500	"	"	"	"	"
Gasoline Range Hydrocarbons	1570	50.0	"	250	"	"	04/26/2023

Surrogate: 1,2-Dichloroethane-d4	73.5 %	70-130			"	"	04/26/2023
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	153 %	70-130			"	"	" S-

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 - Megan H16-33 O SA

PW-E01@2.5'

4/25/2023 3:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-04 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.61	0.499	meq/L	10	[CALC]	04/26/2023	04/28/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.07	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.595	0.0109	0.0201	mg/Kg	10	L679124	04/29/2023	04/30/2023
2-Methylnaphthalene	1.11	0.0194	0.0201	"	"	"	"	"
Acenaphthene	0.0738	0.00304	0.0067	"	"	"	"	"
Anthracene	ND	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	0.01	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"
Fluorene	0.0633	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	0.429	0.0145	0.0201	"	"	"	"	"
Pyrene	ND	0.00643	0.0067	"	"	"	"	"
Surrogate: 2- fluorobiphenyl	63.6 %		33-115			"	"	"

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 - Megan H16-33 O SA

**PW-E01@2.5'**  
**4/25/2023 3:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y304567-04 (Soil)**

**PAH by 8270D SIM**

Surrogate: 4-Terphenyl-d14	68.4 %	33-122				1 24	04/2 /2023	04/30/2023	
Surrogate: itrobenzene-d5	49.4 %	29-110				"	"	"	

**pH in Soil by 9045D**

pH	7.92			pH Units	1	B3D2623	04/26/2023	04/27/2023	
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**SAR by 20B Saturated Paste**

SAR	5.55			SAR	1	B3D2619	04/26/2023	04/28/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.753	0.00500	mmhos/cm	1	B3D2623	04/26/2023	04/27/2023		
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**Table 915 metals by EPA 6020B**

Arsenic	3.06	0.0937	mg/kg	10	B3D2534	04/25/2023	04/25/2023		
Barium	94.4	9.37	"	"	"	"	"	"	
Cadmium	0.0965	0.0937	"	"	"	"	"	"	
Copper	ND	9.37	"	"	"	"	"	"	
Lead	ND	9.37	"	"	"	"	"	"	
Nickel	ND	9.37	"	"	"	"	"	"	
Selenium	0.116	0.0937	"	"	"	"	"	"	
Silver	ND	0.0937	"	"	"	"	"	"	

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 - Megan H16-33 O SA

PW-E01@2.5'

4/25/2023 3:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-04 (Soil)

### Table 915 metals by EPA 6020B

Zinc	ND		93.7	mg/kg	10	B3D2534	04/25/2023	04/25/2023
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### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L679327	04/25/2023	05/01/2023
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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 - Megan H16-33 O SA

PW-W01@2.5'  
4/25/2023 3:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304567-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.256	0.100	mg/L	1	B3D2614	04/26/2023	04/27/2023
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	950	25.0	mg/kg	1	B3D2535	04/25/2023	04/26/2023
Residual Range Organics (C28-C40)	102	100	"	"	"	"	"

Surrogate: o-Terphenyl	91.4 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D2533	04/25/2023	04/26/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.00334	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00202	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.407	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	76.4 %	70-130	"	"	"
Surrogate: Toluene-d8	94.4 %	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 - Megan H16-33 O SA

PW-W01@2.5'  
4/25/2023 3:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-05 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	101 %	70-130	B3D2 33	04/2 /2023	04/26/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	3.43	0.499	meq/L	10	[CALC]	04/26/2023	04/28/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L679124	04/29/2023	04/30/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W01@2.5'  
4/25/2023 3:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y304567-05 (Soil)

## PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L679124	04/29/2023	04/30/2023
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	48.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	49.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.14	pH Units	1	B3D2623	04/26/2023	04/27/2023
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## SAR by 20B Saturated Paste

SAR	0.152	SAR	1	B3D2619	04/26/2023	04/28/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.459	0.00500	mmhos/cm	1	B3D2623	04/26/2023	04/27/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.94	0.0939	mg/kg	10	B3D2534	04/25/2023	04/25/2023
Barium	112	9.39	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W01@2.5'

4/25/2023 3:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304567-05 (Soil)

### Table 915 metals by EPA 6020B

Cadmium	0.109		0.0939	mg/kg	10	B3D2534	04/25/2023	04/25/2023	
Copper	ND		9.39	"	"	"	"	"	
Lead	ND		9.39	"	"	"	"	"	
Nickel	ND		9.39	"	"	"	"	"	
Selenium	0.117		0.0939	"	"	"	"	"	
Silver	ND		0.0939	"	"	"	"	"	
Zinc	ND		93.9	"	"	"	"	"	

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.518	mg/Kg	1	L679327	04/25/2023	05/01/2023	
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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2533 - EPA 5030 (soil)</b>										
<b>Blank (B3D2533-BLK1)</b>					Prepared: 04/25/2023 Analyzed: 04/25/2023					
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	0.091		"	0.125		72.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2533 - EPA 5030 (soil)</b>										
<b>LCS (B3D2533-BS1)</b>					Prepared: 04/25/2023 Analyzed: 04/25/2023					
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.0898	0.00200	"	0.100		89.8	70-130			
Ethylbenzene	0.0944	0.00200	"	0.100		94.4	70-130			
Naphthalene	0.112	0.00380	"	0.100		112	70-130			
Toluene	0.0899	0.00200	"	0.100		89.9	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.087		"	0.125		69.4	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**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 B3D2533 - EPA 5030 (soil)**

Matrix Spike (B3D2533-MS1)		Source: Y304562-01			Prepared: 04/25/2023 Analyzed: 04/25/2023					
1,2,4-Trimethylbenzene	0.0943	0.00200	mg/kg	0.100	ND	94.3	70-130			
1,3,5-Trimethylbenzene	0.0906	0.00200	"	0.100	ND	90.6	70-130			
Benzene	0.0798	0.00200	"	0.100	ND	79.8	70-130			
Ethylbenzene	0.0880	0.00200	"	0.100	ND	88.0	70-130			
Naphthalene	0.103	0.00380	"	0.100	0.00130	101	70-130			
Toluene	0.0798	0.00200	"	0.100	ND	79.8	70-130			
o-Xylene	0.0954	0.00200	"	0.100	0.000580	94.9	70-130			
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.089		"	0.125		71.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3D2533 - EPA 5030 (soil)										
Matrix Spike Dup (B3D2533-MSD1)			Source: Y304562-01		Prepared: 04/25/2023 Analyzed: 04/25/2023					
1,2,4-Trimethylbenzene	0.0935	0.00200	mg/kg	0.100	ND	93.5	70-130	0.895	20	
1,3,5-Trimethylbenzene	0.0925	0.00200	"	0.100	ND	92.5	70-130	2.16	20	
Benzene	0.0792	0.00200	"	0.100	ND	79.2	70-130	0.704	20	
Ethylbenzene	0.0885	0.00200	"	0.100	ND	88.5	70-130	0.589	20	
Naphthalene	0.108	0.00380	"	0.100	0.00130	106	70-130	4.70	20	
Toluene	0.0799	0.00200	"	0.100	ND	79.9	70-130	0.150	20	
o-Xylene	0.0962	0.00200	"	0.100	0.000580	95.6	70-130	0.814	20	
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.6	70-130	0.137	20	
Surrogate: 1,2-Dichloroethane-d4	0.092		"	0.125		73.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	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 - Megan H16-33 O SA

## 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 B3D2535 - EPA 3550B										
Blank (B3D2535-BLK1)					Prepared: 04/25/2023 Analyzed: 04/26/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		100	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 - Megan H16-33 O SA

## 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 B3D2535 - EPA 3550B

### LCS (B3D2535-BS1)

Prepared: 04/25/2023 Analyzed: 04/26/2023

Diesel (C10-C28)	496	25.0	mg/kg	500		99.2	70-130			
Residual Range Organics (C28-C40)	440	100	"	500		88.0	70-130			
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3D2535 - EPA 3550B										
LCS Dup (B3D2535-BSD1)					Prepared: 04/25/2023 Analyzed: 04/26/2023					
Diesel (C10-C28)	448	25.0	mg/kg	500		89.5	70-130	10.2	35	
Residual Range Organics (C28-C40)	389	100	"	500		77.7	70-130	12.4	35	
Surrogate: o-Terphenyl	26		"	24.9		105	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 - Megan H16-33 O SA

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B3D2534 - EPA 3050B

#### Blank (B3D2534-BLK1)

Prepared: 04/25/2023 Analyzed: 04/25/2023

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

#### LCS (B3D2534-BS1)

Prepared: 04/25/2023 Analyzed: 04/25/2023

Arsenic	0.0499	0.000100	mg/kg	0.0500	99.8	80-120
Barium	5.16	0.0100	"	5.00	103	80-120
Cadmium	0.0499	0.000100	"	0.0500	99.7	80-120
Copper	0.503	0.0100	"	0.500	101	80-120
Lead	0.0485	0.0100	"	0.0500	97.0	80-120
Nickel	0.0495	0.0100	"	0.0500	99.1	80-120
Selenium	0.0483	0.000100	"	0.0500	96.6	80-120
Silver	0.0525	0.000100	"	0.0500	105	80-120
Zinc	0.487	0.100	"	0.500	97.4	80-120

#### Matrix Spike (B3D2534-MS1)

Source: Y304567-01

Prepared: 04/25/2023 Analyzed: 04/25/2023

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3D2534 - EPA 3050B

Matrix Spike (B3D2534-MS1)		Source: Y304567-01			Prepared: 04/25/2023 Analyzed: 04/25/2023					
Arsenic	7.77	0.0975	mg/kg	4.87	3.09	96.0	75-125			
Barium	602	9.75	"	487	111	101	75-125			
Cadmium	4.80	0.0975	"	4.87	0.114	96.2	75-125			
Copper	52.3	9.75	"	48.7	6.33	94.3	75-125			
Lead	11.3	9.75	"	4.87	6.10	106	75-125			
Nickel	13.8	9.75	"	4.87	8.58	108	75-125			
Selenium	4.23	0.0975	"	4.87	0.0747	85.2	75-125			
Silver	5.00	0.0975	"	4.87	0.0361	102	75-125			
Zinc	74.2	97.5	"	48.7	28.1	94.6	75-125			
Matrix Spike Dup (B3D2534-MSD1)		Source: Y304567-01			Prepared: 04/25/2023 Analyzed: 04/25/2023					
Arsenic	7.45	0.0913	mg/kg	4.56	3.09	95.5	75-125	4.21	20	
Barium	567	9.13	"	456	111	99.9	75-125	5.98	20	
Cadmium	4.55	0.0913	"	4.56	0.114	97.2	75-125	5.45	20	
Copper	49.4	9.13	"	45.6	6.33	94.3	75-125	5.79	20	
Lead	10.9	9.13	"	4.56	6.10	106	75-125	2.94	20	
Nickel	12.9	9.13	"	4.56	8.58	95.6	75-125	6.58	20	
Selenium	4.06	0.0913	"	4.56	0.0747	87.4	75-125	3.94	20	
Silver	4.54	0.0913	"	4.56	0.0361	98.8	75-125	9.52	20	
Zinc	70.5	91.3	"	45.6	28.1	92.9	75-125	5.13	20	

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 - Megan H16-33 O SA

## 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 B3D2614 - DTPA Sorbitol Preparation

##### Blank (B3D2614-BLK1)

Prepared: 04/26/2023 Analyzed: 04/27/2023

Boron ND 0.100 mg/L

##### Duplicate (B3D2614-DUP1)

Source: Y304562-12

Prepared: 04/26/2023 Analyzed: 04/27/2023

Boron 5.04 0.101 mg/L 4.98 1.32 50

#### Batch B3D2619 - Saturated Paste Metals

##### Blank (B3D2619-BLK1)

Prepared: 04/26/2023 Analyzed: 04/28/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

##### Duplicate (B3D2619-DUP1)

Source: Y304485-01

Prepared: 04/26/2023 Analyzed: 04/28/2023

Calcium PPM 509 10.0 mg/L 528 3.65 50

SAR 0.00 SAR 1.11 200 200

Magnesium PPM 152 10.0 mg/L 156 2.42 50

Sodium PPM 102 10.0 " 113 10.7 50

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2623 - Saturated Paste pH/EC</b>										
<b>Blank (B3D2623-BLK1)</b>					Prepared: 04/26/2023 Analyzed: 04/27/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3D2623-DUP1)</b>					<b>Source: Y304485-01</b> Prepared: 04/26/2023 Analyzed: 04/27/2023					
pH	7.82		pH Units		7.81			0.128	25	
Specific Conductance (EC)	3.22	0.00500	mmhos/cm		3.26			1.21	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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L679124 - 3550B**

MSD (L 81629-MSD-L679124)		Source: 81629			Prepared: 04/29/2023 Analyzed: 04/30/2023					
Dibenz(a,h)anthracene	0.0928	0.0134	mg/Kg dry	0.165	<0.0123	56.2	30-130	2.4	30	
Pyrene	0.289	0.0134	"	0.165	0.15	84.2	30-130	58.6	30	
Naphthalene	0.166	0.0402	"	0.165	0.0749	55.2	30-130	24.3	30	
Indeno(1,2,3-cd)pyrene	0.0886	0.0134	"	0.165	0.0133	45.6	30-130	14.6	30	
Acenaphthene	0.181	0.0134	"	0.165	0.0568	75.2	30-130	33.5	30	
Anthracene	0.131	0.0134	"	0.165	0.0275	62.7	30-130	3.8	30	
Fluorene	0.209	0.0134	"	0.165	0.0589	90.9	30-130	43.7	30	
Fluoranthene	0.168	0.0134	"	0.165	0.0128	94	30-130	28.5	30	
Chrysene	0.161	0.0134	"	0.165	0.0209	84.9	30-130	15.3	30	
Benzo(k)fluoranthene	0.139	0.0134	"	0.165	<0.00874	84.2	30-130	5.9	30	
Benzo(b)fluoranthene	0.15	0.0134	"	0.165	0.0233	76.7	30-130	38	30	
Benzo(a)anthracene	0.155	0.0134	"	0.165	<0.00986	93.9	30-130	19.8	30	
2-Methylnaphthalene	0.202	0.0402	"	0.165	0.139	38.1	30-130	58.9	30	
1-Methylnaphthalene	0.203	0.0402	"	0.165	0.155	29	30-130	35.3	30	
Benzo(a)pyrene	0.155	0.0134	"	0.165	0.0186	82.6	30-130	20.6	30	
Surrogate: itrobenzene-d5	60.3		"	0.33	27	60.3	29-110			
Surrogate: 4-Terphenyl-d14	78.7		"	0.33	270	78.7	33-122			
Surrogate: 2- luorobiphenyl	68.4		"	0.33	237	68.4	33-115			

MS (L 81629-MS-L679124)		Source: 81629			Prepared: 04/29/2023 Analyzed: 04/30/2023					
Pyrene	0.158	0.0134	mg/Kg dry	0.165	0.15	4.8	30-130			
Naphthalene	0.13	0.0402	"	0.165	0.0749	33.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0765	0.0134	"	0.165	0.0133	38.3	30-130			
2-Methylnaphthalene	0.11	0.0402	"	0.165	0.139	0	30-130			
Chrysene	0.138	0.0134	"	0.165	0.0209	70.9	30-130			
Benzo(a)pyrene	0.126	0.0134	"	0.165	0.0186	65	30-130			
Fluorene	0.134	0.0134	"	0.165	0.0589	45.5	30-130			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L679124 - 3550B**

MS (L 81629-MS-L679124)		Source: 81629			Prepared: 04/29/2023 Analyzed: 04/30/2023					
Benzo(k)fluoranthene	0.131	0.0134	mg/Kg dry	0.165	<0.00874	79.3	30-130			
Benzo(a)anthracene	0.127	0.0134	"	0.165	<0.00986	76.9	30-130			
Anthracene	0.126	0.0134	"	0.165	0.0275	59.6	30-130			
Dibenz(a,h)anthracene	0.0951	0.0134	"	0.165	<0.0123	57.6	30-130			
Fluoranthene	0.126	0.0134	"	0.165	0.0128	68.6	30-130			
Acenaphthene	0.129	0.0134	"	0.165	0.0568	43.7	30-130			
1-Methylnaphthalene	0.142	0.0402	"	0.165	0.155	0	30-130			
Benzo(b)fluoranthene	0.102	0.0134	"	0.165	0.0233	47.6	30-130			
Surrogate: itrobenzene-d5	57.5		"	0.33	21	57.5	29-110			
Surrogate: 4-Terphenyl-d14	74.5		"	0.33	270	74.5	33-122			
Surrogate: 2- luorobiphenyl	67.2		"	0.33	237	67.2	33-115			

LCS (LCS-L679124)		Prepared: 04/29/2023 Analyzed: 04/30/2023								
Chrysene	0.126	0.00067	mg/Kg	0.167		75.4	30-130			
Dibenz(a,h)anthracene	0.092	0.00067	"	0.167		55	30-130			
Naphthalene	0.11	0.00201	"	0.167		65.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0838	0.00067	"	0.167		50.1	30-130			
Fluorene	0.112	0.00067	"	0.167		67	30-130			
1-Methylnaphthalene	0.108	0.00201	"	0.167		64.6	30-130			
Fluoranthene	0.123	0.00067	"	0.167		73.6	30-130			
2-Methylnaphthalene	0.109	0.00201	"	0.167		65.2	30-130			
Pyrene	0.126	0.00067	"	0.167		75.4	30-130			
Acenaphthene	0.11	0.00067	"	0.167		65.8	30-130			
Anthracene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.125	0.00067	"	0.167		74.8	30-130			
Benzo(a)pyrene	0.127	0.00067	"	0.167		76	30-130			
Benzo(b)fluoranthene	0.117	0.00067	"	0.167		70	30-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L679124 - 3550B

#### LCS (LCS-L679124)

Prepared: 04/29/2023 Analyzed: 04/30/2023

Benzo(k)fluoranthene	0.107	0.00067	mg/Kg	0.167		64	30-130			
Surrogate: itrobenzene-d5	69		"	0.333		69	29-110			
Surrogate: 4-Terphenyl-d14	79.8		"	0.333		79.8	33-122			
Surrogate: 2- luorobiphenyl	70.2		"	0.333		70.2	33-115			

#### LRB (LRB-L679124)

Prepared: 04/29/2023 Analyzed: 04/30/2023

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: itrobenzene-d5	67.5		"	0.333		67.5	29-110			
Surrogate: 4-Terphenyl-d14	74.1		"	0.333		74.1	33-122			
Surrogate: 2- luorobiphenyl	69.6		"	0.333		69.6	33-115			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L679327 -</b>										
<b>DUP (L 84535-DUP)</b>		<b>Source: 84535</b>			Prepared: Analyzed: 05/01/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
<b>MS (L 84535-MS)</b>		<b>Source: 84535</b>			Prepared: Analyzed: 05/01/2023					
Chromium, Hexavalent	32.2	2.57	mg/Kg	41	<1.25	79	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 05/01/2023					
Chromium, Hexavalent	6.6	0.5	mg/Kg	8		83	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 05/01/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - Megan H16-33 O SA

## Notes and Definitions

U Sample is Non-Detect.

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

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

J Estimated value. Analyte below reported quantitation limit.

QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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 05, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. April 26, 2023. This project is associated with Origins project number Y304610-01.

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 - Megan H16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B01@4'	Y304610-01	Soil	April 26, 2023 14:53	04/26/2023 16:50
SEP-B02@4'	Y304610-02	Soil	April 26, 2023 14:55	04/26/2023 16:50

Naphthalene rerun per the email from Brandon on 04/27/2023. JEP

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 - Megan H16-33 O SA

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

**Sample Receipt Checklist**

Origins Work Order: 4304610 Client: Eagle  
Client Project ID: Megan H16-33 OSA

Checklist Completed by: EHS HST Shipped Via: HO  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 4/26/23 Airbill #: NA

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

Cooler Number/Temperature: 1 / 10 °C        /        °C        /        °C (Describe)       

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		/		SD
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JS Date/Time Reviewed 4/26/23

Origins Laboratory, Inc.

*J. Bynon*

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 - Megan H16-33 O SA

SEP-B01@4'  
4/26/2023 2:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304610-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0982	mg/L	1	B3D2714	KAP	04/27/2023	04/28/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D2639	ZZZ	04/26/2023	04/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	90.3 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D2635	ZZZ	04/26/2023	04/26/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	79.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	93.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	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 - Megan H16-33 O SA

SEP-B01@4'

4/26/2023 2:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304610-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.71	0.499	meq/L	10	[CALC]	KAP	04/27/2023	04/28/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.12		pH Units	1	B3D2718	HJD	04/27/2023	04/28/2023
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**SAR by 20B Saturated Paste**

SAR	0.0601		SAR	1	B3D2710	KAP	04/27/2023	04/28/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.318	0.00500	mmhos/cm	1	B3D2718	HJD	04/27/2023	04/28/2023
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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 - Megan H16-33 O SA

SEP-B02@4'  
4/26/2023 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304610-02 (Soil)

### Boron (DTPA Sorbitol)

Boron	ND	0.0987	mg/L	1	B3D2714	KAP	04/27/2023	04/28/2023	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D2639	ZZZ	04/26/2023	04/27/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	90.3 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00372	0.00200	mg/kg	1	B3D2635	ZZZ	04/26/2023	04/26/2023	
1,3,5-Trimethylbenzene	0.00268	0.00200	"	"	"	ZZZ	"	"	
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	0.00412	0.00380	"	"	"	ZZZ	"	"	
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	0.210	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	80.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	92.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	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 - Megan H16-33 O SA

SEP-B02@4'  
4/26/2023 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y304610-02 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	1.17	0.499	meq/L	10	[CALC]	KAP	04/27/2023	04/28/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.20		pH Units	1	B3D2718	HJD	04/27/2023	04/28/2023
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**SAR by 20B Saturated Paste**

SAR	0.0885		SAR	1	B3D2710	KAP	04/27/2023	04/28/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.214	0.00500	mmhos/cm	1	B3D2718	HJD	04/27/2023	04/28/2023
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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 - Megan H16-33 O SA

SEP-B02@4'  
4/26/2023 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304610-02RE1 (Soil)**

**GBTEX+TMBs by 8260D**

Naphthalene	ND	0.00380	mg/kg	1	B3D2635	ZZZ	04/26/2023	04/28/2023	U
Surrogate: 1,2-Dichloroethane-d4	73.6 %	70-130			"	"	"		
Surrogate: Toluene-d8	93.0 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	98.9 %	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 - Megan H16-33 O SA

SEP-B02@4'

4/26/2023 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304610-02RE2 (Soil)

## GBTEX+TMBs by 8260D

Naphthalene	ND	0.00380	mg/kg	1	B3D2635	ZZZ	04/26/2023	04/28/2023	U
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Surrogate: 1,2-Dichloroethane-d4  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

73.7 %	70-130	"	"	"
92.9 %	70-130	"	"	"
97.1 %	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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2635 - EPA 5030 (soil)</b>										
<b>Blank (B3D2635-BLK1)</b>					Prepared: 04/26/2023 Analyzed: 04/26/2023					
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	0.087		"	0.125	69.9	70-130				S-GC
Surrogate: Toluene-d8	0.12		"	0.125	94.8	70-130				
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.0	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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2635 - EPA 5030 (soil)</b>										
<b>LCS (B3D2635-BS1)</b>					Prepared: 04/26/2023 Analyzed: 04/26/2023					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.0942	0.00200	"	0.100		94.2	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.087		"	0.125		69.9	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2635 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3D2635-MS1)</b>		<b>Source: Y304608-01</b>			Prepared: 04/26/2023 Analyzed: 04/26/2023					
1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100	ND	97.9	70-130			
1,3,5-Trimethylbenzene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
Benzene	0.0806	0.00200	"	0.100	ND	80.6	70-130			
Ethylbenzene	0.0923	0.00200	"	0.100	ND	92.3	70-130			
Naphthalene	0.109	0.00380	"	0.100	0.00106	108	70-130			
Toluene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.092		"	0.125		73.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2635 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3D2635-MSD1)</b>		<b>Source: Y304608-01</b>			Prepared: 04/26/2023 Analyzed: 04/26/2023					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	7.76	20	
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	7.55	20	
Benzene	0.0913	0.00200	"	0.100	ND	91.3	70-130	12.5	20	
Ethylbenzene	0.0993	0.00200	"	0.100	ND	99.3	70-130	7.39	20	
Naphthalene	0.120	0.00380	"	0.100	0.00106	118	70-130	9.17	20	
Toluene	0.0913	0.00200	"	0.100	ND	91.3	70-130	8.02	20	
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130	6.83	20	
m,p-Xylene	0.213	0.00400	"	0.200	ND	107	70-130	7.45	20	
Surrogate: 1,2-Dichloroethane-d4	0.092		"	0.125		73.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	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 - Megan H16-33 O SA

**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 B3D2639 - EPA 3550B										
Blank (B3D2639-BLK1)					Prepared: 04/26/2023 Analyzed: 04/27/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.2	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 - Megan H16-33 O SA

## 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 B3D2639 - EPA 3550B										
LCS (B3D2639-BS1)					Prepared: 04/26/2023 Analyzed: 04/27/2023					
Diesel (C10-C28)	953	50.0	mg/kg	1000		95.3	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	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 - Megan H16-33 O SA

## 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 B3D2639 - EPA 3550B

Matrix Spike (B3D2639-MS1)		Source: Y304608-01			Prepared: 04/26/2023 Analyzed: 04/27/2023					
Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.8	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3D2639 - EPA 3550B

Matrix Spike Dup (B3D2639-MSD1)		Source: Y304608-01			Prepared: 04/26/2023 Analyzed: 04/27/2023					
Diesel (C10-C28)	973	50.0	mg/kg	1000	ND	97.3	70-130	3.12	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	1.42	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3D2710 - Saturated Paste Metals

##### Blank (B3D2710-BLK1)

Prepared: 04/27/2023 Analyzed: 04/28/2023

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

##### Duplicate (B3D2710-DUP1)

Source: Y304605-01

Prepared: 04/27/2023 Analyzed: 04/28/2023

Calcium PPM	426	10.0	mg/L	396	7.41	50
SAR	0.00		SAR	2.48	200	200
Magnesium PPM	283	10.0	mg/L	272	3.83	50
Sodium PPM	266	10.0	"	262	1.47	50

#### Batch B3D2714 - DTPA Sorbitol Preparation

##### Blank (B3D2714-BLK1)

Prepared: 04/27/2023 Analyzed: 04/28/2023

Boron	ND	0.100	mg/L
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##### Duplicate (B3D2714-DUP1)

Source: Y304608-01

Prepared: 04/27/2023 Analyzed: 04/28/2023

Boron	1.36	0.0985	mg/L	1.38	1.22	50
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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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2718 - Saturated Paste pH/EC</b>										
<b>Blank (B3D2718-BLK1)</b>					Prepared: 04/27/2023 Analyzed: 04/28/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3D2718-DUP1)</b>					<b>Source: Y304605-01</b> Prepared: 04/27/2023 Analyzed: 04/28/2023					
Specific Conductance (EC)	4.05	0.00500	mmhos/cm		3.94			2.80	25	
pH	7.98		pH Units		7.95			0.377	25	

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 - Megan H16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

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

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.*



May 09, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. May 02, 2023. This project is associated with Origins project number Y305064-01.

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 - Megan H16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-BG01@3'	Y305064-01	Soil	May 2, 2023 14:39	05/02/2023 17:00
PW-BG01@6'	Y305064-02	Soil	May 2, 2023 14:41	05/02/2023 17:00
PW-BG02@3'	Y305064-03	Soil	May 2, 2023 14:43	05/02/2023 17:00
PW-BG02@6'	Y305064-04	Soil	May 2, 2023 14:45	05/02/2023 17:00
PW-BG03@3'	Y305064-05	Soil	May 2, 2023 14:47	05/02/2023 17:00
PW-BG03@6'	Y305064-06	Soil	May 2, 2023 14:49	05/02/2023 17:00
PW-BG04@3'	Y305064-07	Soil	May 2, 2023 14:51	05/02/2023 17:00
PW-BG04@6'	Y305064-08	Soil	May 2, 2023 14:53	05/02/2023 17:00

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 - Megan H16-33 O SA

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis					Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	pH	EC	Boron		SAR	metals
PW-BG01@3'	5/2/23	14:39	2	X					X				X	X	X	X	
PW-BG01@6'		14:41															
PW-BG02@3'		14:43															
PW-BG02@6'		14:45															
PW-BG03@3'		14:47															
PW-BG03@6'		14:49															
PW-BG04@3'		14:51															
PW-BG04@6'		14:53															

Client: Eagle Environmental (Oxy)  
Address: 8000 W 44th Ave.  
Wheat Ridge, CO 80033  
Telephone Number: 303-937-0779  
Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia  
Project Name: Megan H16-33 OSA  
Project Number: J  
Samples Collected By: CC

ORIGINS  
LABORATORY, INC

1305064  
Impacted  
www.originslaboratory.com  
page 1 of 1

Temp Received-

S

Date Results Needed

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

Origins Laboratory, Inc.

*Bynon*

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 - Megan H16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4305064

Client: Eagle

Client Project ID: Megan H16-33 OSA

Checklist Completed by: EHS

Shipped Via: HD

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

Date/time completed: 5/2/23

Airbill #: NA

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

Cooler Number/Temperature: 115 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

EHS  
Reviewed by (Project Manager)

5/2/23  
Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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 - Megan H16-33 O SA

PW-BG01@3'

5/2/2023 2:39:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-01 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.0985	mg/L	1	B3E0307	05/03/2023	05/04/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	0.680	0.499	meq/L	10	[CALC]	05/03/2023	05/05/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.03	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.08		pH Units	1	B3E0310	05/03/2023	05/04/2023
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## SAR by 20B Saturated Paste

SAR	1.52		SAR	1	B3E0304	05/03/2023	05/05/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.205	0.00500	mmhos/cm	1	B3E0310	05/03/2023	05/04/2023
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## Table 915 metals by EPA 6020B

Arsenic	1.56	0.0870	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Barium	43.7	8.70	"	"	"	"	"
Cadmium	ND	0.0870	"	"	"	"	"

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 - Megan H16-33 O SA

PW-BG01@3'

5/2/2023 2:39:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-01 (Soil)

### Table 915 metals by EPA 6020B

Copper	ND		8.70	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Lead	ND		8.70	"	"	"	"	"
Nickel	ND		8.70	"	"	"	"	"
Selenium	0.0930		0.0870	"	"	"	"	"
Silver	ND		0.0870	"	"	"	"	"
Zinc	ND		87.0	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L680407	05/02/2023	05/05/2023
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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 - Megan H16-33 O SA

PW-BG01@6'

5/2/2023 2:41:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-02 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.138	0.102	mg/L	1	B3E0307	05/03/2023	05/04/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	1.81	0.499	meq/L	10	[CALC]	05/03/2023	05/05/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.920	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.85	pH Units	1	B3E0310	05/03/2023	05/04/2023
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## SAR by 20B Saturated Paste

SAR	0.840	SAR	1	B3E0304	05/03/2023	05/05/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.384	0.00500	mmhos/cm	1	B3E0310	05/03/2023	05/04/2023
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## Table 915 metals by EPA 6020B

Arsenic	1.15	0.0854	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Barium	42.9	8.54	"	"	"	"	"
Cadmium	ND	0.0854	"	"	"	"	"
Copper	ND	8.54	"	"	"	"	"

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-BG01@6'

5/2/2023 2:41:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-02 (Soil)

### Table 915 metals by EPA 6020B

Lead	ND	8.54	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Nickel	ND	8.54	"	"	"	"	"
Selenium	ND	0.0854	"	"	"	"	"
Silver	ND	0.0854	"	"	"	"	"
Zinc	ND	85.4	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L680407	05/02/2023	05/05/2023
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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 - Megan H16-33 O SA

PW-BG02@3'

5/2/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-03 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.422	0.102	mg/L	1	B3E0307	05/03/2023	05/04/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	1.77	0.499	meq/L	10	[CALC]	05/03/2023	05/05/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.02		pH Units	1	B3E0310	05/03/2023	05/04/2023
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## SAR by 20B Saturated Paste

SAR	0.0542		SAR	1	B3E0304	05/03/2023	05/05/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.273	0.00500	mmhos/cm	1	B3E0310	05/03/2023	05/04/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.64	0.0852	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Barium	158	8.52	"	"	"	"	"
Cadmium	0.171	0.0852	"	"	"	"	"
Copper	11.0	8.52	"	"	"	"	"

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 - Megan H16-33 O SA

PW-BG02@3'

5/2/2023 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-03 (Soil)

## Table 915 metals by EPA 6020B

Lead	8.86		8.52	mg/kg	10	B3E0314	05/03/2023	05/08/2023	
Nickel	13.0		8.52	"	"	"	"	"	
Selenium	0.256		0.0852	"	"	"	"	"	
Silver	ND		0.0852	"	"	"	"	"	
Zinc	ND		85.2	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L680407	05/02/2023	05/05/2023	
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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 - Megan H16-33 O SA

PW-BG02@6'

5/2/2023 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-04 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.532	0.0996	mg/L	1	B3E0307	05/03/2023	05/04/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	1.04	0.499	meq/L	10	[CALC]	05/03/2023	05/05/2023
Magnesium	1.53	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.18		pH Units	1	B3E0310	05/03/2023	05/04/2023
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## SAR by 20B Saturated Paste

SAR	0.217		SAR	1	B3E0304	05/03/2023	05/05/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.313	0.00500	mmhos/cm	1	B3E0310	05/03/2023	05/04/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.12	0.0908	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Barium	129	9.08	"	"	"	"	"
Cadmium	0.142	0.0908	"	"	"	"	"
Copper	9.48	9.08	"	"	"	"	"

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 - Megan H16-33 O SA

PW-BG02@6'

5/2/2023 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-04 (Soil)

## Table 915 metals by EPA 6020B

Lead	ND	9.08	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Nickel	11.5	9.08	"	"	"	"	"
Selenium	0.151	0.0908	"	"	"	"	"
Silver	ND	0.0908	"	"	"	"	"
Zinc	ND	90.8	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L680407	05/02/2023	05/05/2023
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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 - Megan H16-33 O SA

PW-BG03@3'

5/2/2023 2:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-05 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.243	0.0996	mg/L	1	B3E0307	05/03/2023	05/04/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	9.78	0.499	meq/L	10	[CALC]	05/03/2023	05/05/2023
Magnesium	9.68	0.823	"	"	"	"	"
Sodium	1.44	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.92		pH Units	1	B3E0310	05/03/2023	05/04/2023
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## SAR by 20B Saturated Paste

SAR	0.462		SAR	1	B3E0304	05/03/2023	05/05/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.19	0.00500	mmhos/cm	1	B3E0310	05/03/2023	05/04/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.05	0.0978	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Barium	121	9.78	"	"	"	"	"
Cadmium	0.245	0.0978	"	"	"	"	"
Copper	ND	9.78	"	"	"	"	"

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 - Megan H16-33 O SA

PW-BG03@3'

5/2/2023 2:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-05 (Soil)


### Table 915 metals by EPA 6020B

Lead	ND		9.78	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Nickel	10.7		9.78	"	"	"	"	"
Selenium	0.129		0.0978	"	"	"	"	"
Silver	ND		0.0978	"	"	"	"	"
Zinc	ND		97.8	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L680407	05/02/2023	05/05/2023
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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 - Megan H16-33 O SA

PW-BG03@6'

5/2/2023 2:49:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-06 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.289	0.102	mg/L	1	B3E0307	05/03/2023	05/04/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	11.1	0.499	meq/L	10	[CALC]	05/03/2023	05/05/2023
Magnesium	18.0	0.823	"	"	"	"	"
Sodium	3.28	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.91		pH Units	1	B3E0310	05/03/2023	05/04/2023
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## SAR by 20B Saturated Paste

SAR	0.861		SAR	1	B3E0304	05/03/2023	05/05/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.28	0.00500	mmhos/cm	1	B3E0310	05/03/2023	05/04/2023
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## Table 915 metals by EPA 6020B

Arsenic	9.60	0.0882	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Barium	137	8.82	"	"	"	"	"
Cadmium	0.193	0.0882	"	"	"	"	"
Copper	8.92	8.82	"	"	"	"	"

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 - Megan H16-33 O SA

PW-BG03@6'

5/2/2023 2:49:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-06 (Soil)

## Table 915 metals by EPA 6020B

Lead	9.49		8.82	mg/kg	10	B3E0314	05/03/2023	05/08/2023	
Nickel	11.1		8.82	"	"	"	"	"	
Selenium	0.127		0.0882	"	"	"	"	"	
Silver	ND		0.0882	"	"	"	"	"	
Zinc	ND		88.2	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L680407	05/02/2023	05/05/2023	
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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 - Megan H16-33 O SA

PW-BG04@3'

5/2/2023 2:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-07 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.121	0.0988	mg/L	1	B3E0307	05/03/2023	05/04/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	1.24	0.499	meq/L	10	[CALC]	05/03/2023	05/05/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.29		pH Units	1	B3E0310	05/03/2023	05/04/2023
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## SAR by 20B Saturated Paste

SAR	0.0712		SAR	1	B3E0304	05/03/2023	05/05/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.226	0.00500	mmhos/cm	1	B3E0310	05/03/2023	05/04/2023
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## Table 915 metals by EPA 6020B

Arsenic	1.93	0.0867	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Barium	85.8	8.67	"	"	"	"	"
Cadmium	0.0867	0.0867	"	"	"	"	"
Copper	ND	8.67	"	"	"	"	"

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 - Megan H16-33 O SA

PW-BG04@3'

5/2/2023 2:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-07 (Soil)

### Table 915 metals by EPA 6020B

Lead	ND		8.67	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Nickel	ND		8.67	"	"	"	"	"
Selenium	0.108		0.0867	"	"	"	"	"
Silver	ND		0.0867	"	"	"	"	"
Zinc	ND		86.7	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L680407	05/02/2023	05/05/2023
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-BG04@6'

5/2/2023 2:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-08 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.153	0.0991	mg/L	1	B3E0307	05/03/2023	05/04/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	0.844	0.499	meq/L	10	[CALC]	05/03/2023	05/05/2023
Magnesium	1.67	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.35		pH Units	1	B3E0310	05/03/2023	05/04/2023
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## SAR by 20B Saturated Paste

SAR	0.148		SAR	1	B3E0304	05/03/2023	05/05/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.270	0.00500	mmhos/cm	1	B3E0310	05/03/2023	05/04/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.41	0.0930	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Barium	92.5	9.30	"	"	"	"	"
Cadmium	0.129	0.0930	"	"	"	"	"
Copper	ND	9.30	"	"	"	"	"

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 - Megan H16-33 O SA

PW-BG04@6'

5/2/2023 2:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305064-08 (Soil)

### Table 915 metals by EPA 6020B

Lead	ND		9.30	mg/kg	10	B3E0314	05/03/2023	05/08/2023
Nickel	10.7		9.30	"	"	"	"	"
Selenium	ND		0.0930	"	"	"	"	"
Silver	ND		0.0930	"	"	"	"	"
Zinc	ND		93.0	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L680407	05/02/2023	05/05/2023
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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 - Megan H16-33 O SA

## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch B3E0314 - EPA 3050B

#### Blank (B3E0314-BLK1)

Prepared: 05/03/2023 Analyzed: 05/08/2023

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

#### LCS (B3E0314-BS1)

Prepared: 05/03/2023 Analyzed: 05/08/2023

Arsenic	0.0515	0.000100	mg/kg	0.0500	103	80-120
Barium	5.21	0.0100	"	5.00	104	80-120
Cadmium	0.0515	0.000100	"	0.0500	103	80-120
Copper	0.536	0.0100	"	0.500	107	80-120
Lead	0.0499	0.0100	"	0.0500	99.9	80-120
Nickel	0.0532	0.0100	"	0.0500	106	80-120
Selenium	0.0500	0.000100	"	0.0500	99.9	80-120
Silver	0.0553	0.000100	"	0.0500	111	80-120
Zinc	0.504	0.100	"	0.500	101	80-120

#### Matrix Spike (B3E0314-MS1)

Source: Y305064-01

Prepared: 05/03/2023 Analyzed: 05/08/2023

Arsenic	6.09	0.0911	mg/kg	4.55	1.56	99.6	75-125
Barium	520	9.11	"	455	43.7	105	75-125
Cadmium	4.71	0.0911	"	4.55	0.0687	102	75-125
Copper	50.5	9.11	"	45.5	3.60	103	75-125
Lead	8.62	9.11	"	4.55	4.32	94.4	75-125

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 - Megan H16-33 O SA

## 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 B3E0314 - EPA 3050B

#### Matrix Spike (B3E0314-MS1)

Source: Y305064-01

Prepared: 05/03/2023 Analyzed: 05/08/2023

Nickel	8.81	9.11	mg/kg	4.55	4.23	101	75-125			
Selenium	4.67	0.0911	"	4.55	0.0930	101	75-125			
Silver	5.06	0.0911	"	4.55	0.0200	111	75-125			
Zinc	61.4	91.1	"	45.5	17.0	97.5	75-125			

#### Matrix Spike Dup (B3E0314-MSD1)

Source: Y305064-01

Prepared: 05/03/2023 Analyzed: 05/08/2023

Arsenic	6.08	0.0933	mg/kg	4.66	1.56	97.0	75-125	0.209	20	
Barium	534	9.33	"	466	43.7	105	75-125	2.67	20	
Cadmium	4.74	0.0933	"	4.66	0.0687	100	75-125	0.582	20	
Copper	50.1	9.33	"	46.6	3.60	99.7	75-125	0.711	20	
Lead	9.43	9.33	"	4.66	4.32	109	75-125	8.96	20	
Nickel	8.71	9.33	"	4.66	4.23	96.2	75-125	1.18	20	
Selenium	4.66	0.0933	"	4.66	0.0930	98.0	75-125	0.190	20	
Silver	5.07	0.0933	"	4.66	0.0200	108	75-125	0.103	20	
Zinc	60.9	93.3	"	46.6	17.0	94.1	75-125	0.890	20	

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 - Megan H16-33 O SA

## 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 B3E0304 - Saturated Paste Metals

##### Blank (B3E0304-BLK1)

Prepared: 05/03/2023 Analyzed: 05/05/2023

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

##### Duplicate (B3E0304-DUP1)

Source: Y305062-11

Prepared: 05/03/2023 Analyzed: 05/05/2023

SAR	0.00		SAR	0.542	200	200
Calcium PPM	32.7	10.0	mg/L	32.0	2.10	50
Magnesium PPM	11.2	10.0	"	11.3	0.978	50
Sodium PPM	12.7	10.0	"	14.0	9.74	50

#### Batch B3E0307 - DTPA Sorbitol Preparation

##### Blank (B3E0307-BLK1)

Prepared: 05/03/2023 Analyzed: 05/04/2023

Boron	ND	0.100	mg/L
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##### Duplicate (B3E0307-DUP1)

Source: Y305017-05

Prepared: 05/03/2023 Analyzed: 05/04/2023

Boron	0.113	0.101	mg/L	0.120	5.97	50
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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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E0310 - Saturated Paste pH/EC</b>										
<b>Blank (B3E0310-BLK1)</b>					Prepared: 05/03/2023 Analyzed: 05/04/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3E0310-DUP1)</b>					<b>Source: Y305062-11</b> Prepared: 05/03/2023 Analyzed: 05/04/2023					
Specific Conductance (EC)	0.345	0.00500	mmhos/cm		0.337			2.32	25	
pH	7.81		pH Units		7.79			0.256	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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L680407 -</b>										
<b>DUP (L 89738-DUP)</b>	<b>Source: Y305064-06</b>				Prepared: Analyzed: 05/05/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
<b>MS (L 89738-MS)</b>	<b>Source: Y305064-06</b>				Prepared: Analyzed: 05/05/2023					
Chromium, Hexavalent	31.2	2.5	mg/Kg	39.5	<1.22	79	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 05/05/2023					
Chromium, Hexavalent	7.36	0.5	mg/Kg	8		92	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 05/05/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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 26, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. May 18, 2023. This project is associated with Origins project number Y305475-01.

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 - Megan H16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B02@8'	Y305475-01	Soil	May 17, 2023 14:50	05/18/2023 08:10
PW-B03@8'	Y305475-02	Soil	May 17, 2023 14:52	05/18/2023 08:10
PW-B04@8'	Y305475-03	Soil	May 17, 2023 14:56	05/18/2023 08:10
PW-B05@8'	Y305475-04	Soil	May 17, 2023 14:58	05/18/2023 08:10
PW-N02@2.5'	Y305475-05	Soil	May 17, 2023 15:00	05/18/2023 08:10
PW-N02@5'	Y305475-06	Soil	May 17, 2023 15:02	05/18/2023 08:10
PW-N03@2.5'	Y305475-07	Soil	May 17, 2023 15:04	05/18/2023 08:10
PW-N03@5'	Y305475-08	Soil	May 17, 2023 15:06	05/18/2023 08:10
PW-N04@2.5'	Y305475-09	Soil	May 17, 2023 15:08	05/18/2023 08:10
PW-N04@5'	Y305475-10	Soil	May 17, 2023 15:10	05/18/2023 08:10
PW-N05@2.5'	Y305475-11	Soil	May 17, 2023 15:12	05/18/2023 08:10
PW-N05@5'	Y305475-12	Soil	May 17, 2023 15:14	05/18/2023 08:10
PW-S02@2.5'	Y305475-13	Soil	May 17, 2023 15:16	05/18/2023 08:10
PW-S02@5'	Y305475-14	Soil	May 17, 2023 15:18	05/18/2023 08:10

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 - Megan H16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-S03@2.5'	Y305475-15	Soil	May 17, 2023 15:20	05/18/2023 08:10
PW-S03@5'	Y305475-16	Soil	May 17, 2023 15:22	05/18/2023 08:10
PW-S04@2.5'	Y305475-17	Soil	May 17, 2023 15:24	05/18/2023 08:10
PW-S04@5'	Y305475-18	Soil	May 17, 2023 15:26	05/18/2023 08:10
PW-S05@2.5'	Y305475-19	Soil	May 17, 2023 15:28	05/18/2023 08:10
PW-S05@5'	Y305475-20	Soil	May 17, 2023 15:30	05/18/2023 08:10
PW-E02@2.5'	Y305475-21	Soil	May 17, 2023 15:32	05/18/2023 08:10
PW-E02@5'	Y305475-22	Soil	May 17, 2023 15:34	05/18/2023 08:10
PW-E03@2.5'	Y305475-23	Soil	May 17, 2023 15:36	05/18/2023 08:10
PW-E03@5'	Y305475-24	Soil	May 17, 2023 15:28	05/18/2023 08:10
PW-W02@2.5'	Y305475-25	Soil	May 17, 2023 15:40	05/18/2023 08:10
PW-W02@5'	Y305475-26	Soil	May 17, 2023 15:42	05/18/2023 08:10
PW-W03@2.5'	Y305475-27	Soil	May 17, 2023 15:44	05/18/2023 08:10
PW-W03@5'	Y305475-28	Soil	May 17, 2023 15:46	05/18/2023 08:10

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.*



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Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H16-33 O SA

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Origins Laboratory, Inc.



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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 - Megan H16-33 O SA

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

**ORIGINS**  
LABORATORY, INC

*Impacted*  
**4805475**

www.originslaboratory.com

page 1 of 3

Client: Eagle Environmental (CH)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: dcoloccia@eagle-enviro.com  
Project Manager: D. Coloccia  
Project Name: Megan H 16-33 O SA  
Project Number: -  
Samples Collected By: CC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix	Analysis			Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>		Groundwater	Soil	Alt Summa Canister #	
PW-B02 @ 8'	5/17/23	14:50	3	X				X			For metals just run 1
PW-B03 @ 8'		14:52									For arsenic, barium, 2
PW-B04 @ 8'		14:56									Cadmium, and selenium 3
PW-B05 @ 8'		14:58									XX PAH just 1, 2-methyl 4
PW-N02 @ 2.5'		15:00									Acenaphthene, chrysene, 5
PW-N02 @ 5'		15:02									fluorene, and pyrene, 6
PW-N03 @ 2.5'		15:04									and fluorene here 7
PW-N03 @ 5'		15:06									
PW-N04 @ 2.5'		15:08									
PW-N04 @ 5'		15:10									
Relinquished By: <u>Lawrence Luster</u>	Date: <u>5/18/23</u>	Time: <u>810</u>	Received By: <u>U8</u>	Date: <u>5/18/23</u>	Time: <u>0810</u>	Turnaround Time:					
						Same Day <input checked="" type="checkbox"/>		24 Hr <input type="checkbox"/>		72 Hr <input type="checkbox"/>	
						48 Hr <input type="checkbox"/>		Standard <input type="checkbox"/>			

Temp Received - 10

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 - Megan H16-33 O SA

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

**ORIGINS**  
LABORATORY, INC

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*Imported*  
**4305475**

page 2 of 3

Client: Eagle Environmental (Orig)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-937-0979  
Email Address: d.coloccia@eagle-envire.com  
Project Manager: D. Coloccia  
Project Name: Megan H 16-33 O SA  
Project Number: -  
Samples Collected By: CC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions				
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX, N		TPH	PAH's	PH	SAR
PLW-N05 @ 2.5'	5/17/23	15:12	3	X					X			X	X	X	X	X	Metals just run for 1
PLW-N05 @ 5'		15:14										X	X	X	X	X	Asenic, barium, selenium, 2
PLW-S02 @ 2.5'		15:16										X	X	X	X	X	and selenium
PLW-S02 @ 5'		15:18										X	X	X	X	X	for PAH just run for 4
PLW-S03 @ 2.5'		15:20										X	X	X	X	X	1,2-methyl, acenaphthenes, 5
PLW-S03 @ 5'		15:22										X	X	X	X	X	Chrysene, fluorene, 6
PLW-S04 @ 2.5'		15:24										X	X	X	X	X	and pyrene, and 7
PLW-S04 @ 5'		15:26										X	X	X	X	X	fluoranthene 8
PLW-S05 @ 2.5'		15:28										X	X	X	X	X	9
PLW-S05 @ 5'		15:30										X	X	X	X	X	10
Relinquished By: <u>Dan Coloccia</u>	Date: <u>5/19/23</u>	Time: <u>0810</u>	Received By: <u>CC</u>	Date: <u>5/19/23</u>	Time: <u>0810</u>	Turnaround Time:							Some Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/>				
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>				
													Standard <input type="checkbox"/>				

Temp Received: 4

Date Results Needed

Origins Laboratory, Inc.

*Jen Pellegrini*

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 - Megan H16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: YB05475

Client: Eagle Environmental

Client Project ID: Megan H16-33 OSA

Checklist Completed by: WH

Shipped Via: Hand Delivered

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

Date/time completed: 5/18/23

Airbill #: N/A

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

Cooler Number/Temperature: 1, 10 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) WH

Date/Time Reviewed 5/18/23

Origins Laboratory, Inc.

*Jen 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 - Megan H16-33 O SA

PW-B02@8'

5/17/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	1310	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023
Residual Range Organics (C28-C40)	163	100	"	"	"	"	"

Surrogate: o-Terphenyl	138 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	56.2	0.500	mg/kg	250	B3E1819	05/18/2023	05/18/2023
1,3,5-Trimethylbenzene	45.6	0.500	"	"	"	"	"
Benzene	17.8	0.500	"	"	"	"	"
Ethylbenzene	12.4	5.00	"	2500	"	"	05/19/2023 R-05
Toluene	ND	0.500	"	250	"	"	05/18/2023 R-05, U
Xylenes, total	220	0.500	"	"	"	"	"
Gasoline Range Hydrocarbons	4150	50.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130	"	"	"
Surrogate: Toluene-d8	135 %	70-130	"	"	" S-
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
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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.

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 - Megan H16-33 O SA

PW-B02@8'

5/17/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Magnesium	ND	0.823	meq/L	10	[CALC]	05/19/2023	05/22/2023
Sodium	9.70	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	1.97	0.00549	0.0101	mg/Kg	5	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	1.63	0.00972	0.0101	"	"	"	"	"
Acenaphthene	0.303	0.00152	0.00335	"	"	"	"	"
Chrysene	0.0292	0.00312	0.00335	"	"	"	"	"
Fluoranthene	0.00534	0.00197	0.00335	"	"	"	"	"
Fluorene	0.311	0.00143	0.00335	"	"	"	"	"
Naphthalene	1.29	0.0073	0.0101	"	"	"	"	"
Pyrene	0.0221	0.00322	0.00335	"	"	"	"	"

Surrogate: 2- luorobiphenyl	49.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	51.7 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.44	pH Units	1	B3E1910	05/19/2023	05/20/2023
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## SAR by 20B Saturated Paste

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 - Megan H16-33 O SA

PW-B02@8'

5/17/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-01 (Soil)

## SAR by 20B Saturated Paste

SAR	13.7			SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.74	0.0923	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	176	9.23	"	"	"	"	"
Cadmium	0.137	0.0923	"	"	"	"	"
Selenium	0.149	0.0923	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B03@8'

5/17/2023 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-02 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.3 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.334	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 86.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B03@8'

5/17/2023 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-02 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	1.20	0.823	"	"	"	"	"
Sodium	11.4	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	0.00166	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023	J
2-Methylnaphthalene	0.00214	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000974	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2- fluorobiphenyl	44.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	38 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.64	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-B03@8'

5/17/2023 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-02 (Soil)

## SAR by 20B Saturated Paste

SAR	13.6			SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.13	0.0914	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	199	9.14	"	"	"	"	"
Cadmium	0.173	0.0914	"	"	"	"	"
Selenium	0.122	0.0914	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B04@8'

5/17/2023 2:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-03 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.7 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.933	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	87.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B04@8'

5/17/2023 2:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-03 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.513	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	4.04	0.823	"	"	"	"	"
Sodium	2.62	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	0.00238	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	0.0042	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.000872	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00216	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	45.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	53.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	37.8 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.46	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-B04@8'

5/17/2023 2:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-03 (Soil)

## SAR by 20B Saturated Paste

SAR	1.73		SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.36	0.0954	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	121	9.54	"	"	"	"	"
Cadmium	0.164	0.0954	"	"	"	"	"
Selenium	0.104	0.0954	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B05@8'

5/17/2023 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-04 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.4 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.00572	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130	"	"	"
Surrogate: Toluene-d8	87.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B05@8'

5/17/2023 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-04 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.575	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	4.88	0.823	"	"	"	"	"
Sodium	2.08	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.000722	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	44.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.8 %	33-122	"	"	"
Surrogate: itrobenzene-d5	38.7 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.50	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-B05@8'

5/17/2023 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-04 (Soil)

## SAR by 20B Saturated Paste

SAR	1.26		SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.35	0.0943	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	174	9.43	"	"	"	"	"
Cadmium	0.212	0.0943	"	"	"	"	"
Selenium	0.111	0.0943	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N02@2.5'

5/17/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-05 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.1 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130	"	"	"
Surrogate: Toluene-d8	87.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

## PW-N02@2.5'

5/17/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y305475-05 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	1.53	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	0.941	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

### PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	0.0026	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.00541	0.000394	0.00067	"	"	"	"	"
Fluorene	0.000399	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	0.0045	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	63.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	76.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	50 %	29-110	"	"	"

### pH in Soil by 9045D

pH	8.31	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-N02@2.5'

5/17/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-05 (Soil)

## SAR by 20B Saturated Paste

SAR	0.209		SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.36	0.0924	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	74.4	9.24	"	"	"	"	"
Cadmium	0.0988	0.0924	"	"	"	"	"
Selenium	0.0924	0.0924	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N02@5'

5/17/2023 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305475-06 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "  
Surrogate: Toluene-d8 87.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-N02@5'  
5/17/2023 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305475-06 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.06	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	1.40	0.823	"	"	"	"	"
Sodium	0.457	0.435	"	"	"	"	"

**PAH by 8270D-SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.00103	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00037	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	0.000774	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	50.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65 %	33-122	"	"	"
Surrogate: itrobenzene-d5	41.3 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.31	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-N02@5'

5/17/2023 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-06 (Soil)

## SAR by 20B Saturated Paste

SAR	0.412			SAR	1	B3E1906	05/19/2023	05/22/2023	
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## Table 915 metals by EPA 6020B

Arsenic	3.19	0.0946	mg/kg	10	B3E1822	05/18/2023	05/18/2023	
Barium	94.1	9.46	"	"	"	"	"	
Cadmium	0.0956	0.0946	"	"	"	"	"	
Selenium	ND	0.0946	"	"	"	"	"	U

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 - Megan H16-33 O SA

PW-N03@2.5'

5/17/2023 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-07 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.2 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130	"	"	"
Surrogate: Toluene-d8	86.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N03@2.5'

5/17/2023 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-07 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.13	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	1.08	0.823	"	"	"	"	"
Sodium	0.666	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	0.0018	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023	J
2-Methylnaphthalene	0.00362	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	0.00166	0.00145	0.00201	"	"	"	"	"	J
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2- luorobiphenyl	56.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	46.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.46	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-N03@2.5'

5/17/2023 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-07 (Soil)

## SAR by 20B Saturated Paste

SAR	0.635			SAR	1	B3E1906	05/19/2023	05/22/2023	
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## Table 915 metals by EPA 6020B

Arsenic	3.43	0.0960	mg/kg	10	B3E1822	05/18/2023	05/18/2023	
Barium	87.7	9.60	"	"	"	"	"	
Cadmium	0.117	0.0960	"	"	"	"	"	
Selenium	ND	0.0960	"	"	"	"	"	U

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 - Megan H16-33 O SA

PW-N03@5'

5/17/2023 3:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-08 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	495		25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	63.9 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	17.0	0.500	mg/kg	250	B3E1819	05/18/2023	05/19/2023
1,3,5-Trimethylbenzene	12.3	0.500	"	"	"	"	"
Benzene	0.915	0.0500	"	25	"	"	05/18/2023
Ethylbenzene	2.51	0.0500	"	"	"	"	"
Toluene	0.301	0.0500	"	"	"	"	"
Xylenes, total	19.4	0.500	"	250	"	"	05/19/2023
Gasoline Range Hydrocarbons	619	50.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	05/18/2023
Surrogate: Toluene-d8	467 %	70-130	"	"	" S-
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	1.71	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
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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 - Megan H16-33 O SA

PW-N03@5'

5/17/2023 3:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-08 (Soil)

## Metals by Saturated Paste by EPA 6010

Magnesium	2.66	0.823	meq/L	10	[CALC]	05/19/2023	05/22/2023
Sodium	0.996	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	0.347	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	0.275	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.0884	0.000304	0.00067	"	"	"	"	"
Chrysene	0.00982	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.00169	0.000394	0.00067	"	"	"	"	"
Fluorene	0.073	0.000286	0.00067	"	"	"	"	"
Naphthalene	0.213	0.00145	0.00201	"	"	"	"	"
Pyrene	0.00534	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	38.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.1 %	33-122	"	"	"
Surrogate: itrobenzene-d5	32.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.81	pH Units	1	B3E1910	05/19/2023	05/20/2023
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## SAR by 20B Saturated Paste

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 - Megan H16-33 O SA

PW-N03@5'

5/17/2023 3:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-08 (Soil)

## SAR by 20B Saturated Paste

SAR	0.674		SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.59	0.0892	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	80.3	8.92	"	"	"	"	"
Cadmium	0.119	0.0892	"	"	"	"	"
Selenium	0.0892	0.0892	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N04@2.5'

5/17/2023 3:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-09 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.4 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 86.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N04@2.5'

5/17/2023 3:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-09 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.76	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	1.14	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	0.00114	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023	J
2-Methylnaphthalene	0.00237	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000359	0.000304	0.00067	"	"	"	"	"	J
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000897	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2- luorobiphenyl	54.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.7 %	33-122	"	"	"
Surrogate: itrobenzene-d5	45.9 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.24	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-N04@2.5'

5/17/2023 3:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-09 (Soil)

## SAR by 20B Saturated Paste

SAR	0.339			SAR	1	B3E1906	05/19/2023	05/22/2023	
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## Table 915 metals by EPA 6020B

Arsenic	2.68	0.0945	mg/kg	10	B3E1822	05/18/2023	05/18/2023	
Barium	76.2	9.45	"	"	"	"	"	
Cadmium	ND	0.0945	"	"	"	"	"	U
Selenium	ND	0.0945	"	"	"	"	"	U

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 - Megan H16-33 O SA

PW-N04@5'

5/17/2023 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-10 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.0 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130	"	"	"
Surrogate: Toluene-d8	86.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N04@5'  
5/17/2023 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305475-10 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.876	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	2.87	0.823	"	"	"	"	"
Sodium	0.662	0.435	"	"	"	"	"

**PAH by 8270D-SIM**

1-Methylnaphthalene	0.00109	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023	J
2-Methylnaphthalene	0.00213	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000615	0.000286	0.00067	"	"	"	"	"	J
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2- luorobiphenyl	53.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.6 %	33-122	"	"	"
Surrogate: itrobenzene-d5	45.9 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.43	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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.

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 - Megan H16-33 O SA

PW-N04@5'

5/17/2023 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-10 (Soil)

## SAR by 20B Saturated Paste

SAR	0.484		SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	11.6	0.0950	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	123	9.50	"	"	"	"	"
Cadmium	0.173	0.0950	"	"	"	"	"
Selenium	0.106	0.0950	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N05@2.5'

5/17/2023 3:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-11 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.7 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00966	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130	"	"	"
Surrogate: Toluene-d8	87.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N05@2.5'

5/17/2023 3:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-11 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.13	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	1.01	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	67.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	54.4 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.45	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-N05@2.5'

5/17/2023 3:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-11 (Soil)

## SAR by 20B Saturated Paste

SAR	0.280		SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.48	0.0877	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	73.6	8.77	"	"	"	"	"
Cadmium	0.0939	0.0877	"	"	"	"	"
Selenium	0.147	0.0877	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N05@5'

5/17/2023 3:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-12 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.7 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00996	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.209	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130	"	"	"
Surrogate: Toluene-d8	86.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N05@5'

5/17/2023 3:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-12 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.63	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	0.896	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	0.000645	0.000624	0.00067	"	"	"	"	J
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.000338	0.000286	0.00067	"	"	"	"	J
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	55.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	41.9 %	33-122	"	"	"
Surrogate: itrobenzene-d5	43.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.22	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-N05@5'

5/17/2023 3:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-12 (Soil)

## SAR by 20B Saturated Paste

SAR	0.274		SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.94	0.0894	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	88.8	8.94	"	"	"	"	"
Cadmium	0.112	0.0894	"	"	"	"	"
Selenium	0.157	0.0894	"	"	"	"	"

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 - Megan H16-33 O SA

**PW-S02@2.5'**

**5/17/2023 3:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305475-13 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.4 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.0 % 70-130 " " "  
Surrogate: Toluene-d8 88.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

## PW-S02@2.5'

5/17/2023 3:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y305475-13 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	1.41	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.45	0.435	"	"	"	"	"

### PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	60.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.8 %	33-122	"	"	"
Surrogate: itrobenzene-d5	48.9 %	29-110	"	"	"

### pH in Soil by 9045D

pH	8.26	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-S02@2.5'

5/17/2023 3:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-13 (Soil)

## SAR by 20B Saturated Paste

SAR	1.38			SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.73	0.0947	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	89.8	9.47	"	"	"	"	"
Cadmium	0.117	0.0947	"	"	"	"	"
Selenium	0.100	0.0947	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S02@5'

5/17/2023 3:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-14 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130	"	"	"
Surrogate: Toluene-d8	89.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S02@5'

5/17/2023 3:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-14 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.40	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	2.14	0.823	"	"	"	"	"
Sodium	0.861	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	45.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	39.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.30	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-S02@5'

5/17/2023 3:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-14 (Soil)

## SAR by 20B Saturated Paste

SAR	0.571			SAR	1	B3E1906	05/19/2023	05/22/2023	
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## Table 915 metals by EPA 6020B

Arsenic	2.58	0.0891	mg/kg	10	B3E1822	05/18/2023	05/18/2023	
Barium	110	8.91	"	"	"	"	"	
Cadmium	0.123	0.0891	"	"	"	"	"	
Selenium	ND	0.0891	"	"	"	"	"	U

Origins Laboratory, Inc.



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

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 - Megan H16-33 O SA

## PW-S03@2.5'

5/17/2023 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y305475-15 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.4 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0216	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.919	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "  
Surrogate: Toluene-d8 91.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S03@2.5'

5/17/2023 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-15 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.33	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	0.961	0.823	"	"	"	"	"
Sodium	4.12	0.435	"	"	"	"	"

## PAH by 8270D-SIM

1-Methylnaphthalene	0.00223	0.00109	0.00201	mg/Kg	1	L683573	05/23/2023	05/24/2023
2-Methylnaphthalene	0.00346	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.000356	0.000286	0.00067	"	"	"	"	"
Naphthalene	0.00241	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	56.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.1 %	33-122	"	"	"
Surrogate: itrobenzene-d5	45.3 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.50	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

**PW-S03@2.5'**

**5/17/2023 3:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305475-15 (Soil)**

## SAR by 20B Saturated Paste

SAR	3.84		SAR	1	B3E1906	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.10	0.0965	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	83.0	9.65	"	"	"	"	"
Cadmium	0.105	0.0965	"	"	"	"	"
Selenium	0.457	0.0965	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S03@5'

5/17/2023 3:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-16 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.4 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	3.64	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S03@5'

5/17/2023 3:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305475-16 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.25	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	7.83	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00281	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	0.00277	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.000424	0.000304	0.00067	"	"	"	"	J
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0026	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	50.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62 %	33-122	"	"	"
Surrogate: itrobenzene-d5	42.3 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.52	pH Units	1	B3E1910	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-S03@5'

5/17/2023 3:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-16 (Soil)

## SAR by 20B Saturated Paste

SAR	7.74			SAR	1	B3E1906	05/19/2023	05/22/2023	
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## Table 915 metals by EPA 6020B

Arsenic	3.17	0.0849	mg/kg	10	B3E1822	05/18/2023	05/18/2023	
Barium	127	8.49	"	"	"	"	"	
Cadmium	0.121	0.0849	"	"	"	"	"	
Selenium	ND	0.0849	"	"	"	"	"	U

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 - Megan H16-33 O SA

PW-S04@2.5'

5/17/2023 3:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-17 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.3 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130	"	"	"
Surrogate: Toluene-d8	88.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S04@2.5'

5/17/2023 3:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-17 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.06	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	0.832	0.823	"	"	"	"	"
Sodium	0.822	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	47.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.3 %	33-122	"	"	"
Surrogate: itrobenzene-d5	41.4 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.51	pH Units	1	B3E2316	05/23/2023	05/24/2023
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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 - Megan H16-33 O SA

PW-S04@2.5'

5/17/2023 3:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-17 (Soil)

## SAR by 20B Saturated Paste

SAR	0.684			SAR	1	B3E1907	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.12	0.0937	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	119	9.37	"	"	"	"	"
Cadmium	0.128	0.0937	"	"	"	"	"
Selenium	ND	0.0937	"	"	"	"	" U

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 - Megan H16-33 O SA

PW-S04@5'

5/17/2023 3:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-18 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.5 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130	"	"	"
Surrogate: Toluene-d8	86.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S04@5'

5/17/2023 3:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-18 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.35	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	2.34	0.823	"	"	"	"	"
Sodium	0.628	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	46.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	40.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.37	pH Units	1	B3E2316	05/23/2023	05/24/2023
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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 - Megan H16-33 O SA

PW-S04@5'

5/17/2023 3:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-18 (Soil)

## SAR by 20B Saturated Paste

SAR	0.462		SAR	1	B3E1907	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.05	0.0918	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	125	9.18	"	"	"	"	"
Cadmium	0.142	0.0918	"	"	"	"	"
Selenium	0.111	0.0918	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S05@2.5'

5/17/2023 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-19 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.1 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130	"	"	"
Surrogate: Toluene-d8	85.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S05@2.5'

5/17/2023 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-19 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.38	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	0.910	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	42.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	53.7 %	33-122	"	"	"
Surrogate: itrobenzene-d5	36.8 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.40	pH Units	1	B3E2316	05/23/2023	05/24/2023
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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 - Megan H16-33 O SA

PW-S05@2.5'

5/17/2023 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-19 (Soil)

## SAR by 20B Saturated Paste

SAR	0.303		SAR	1	B3E1907	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.86	0.0868	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	128	8.68	"	"	"	"	"
Cadmium	0.156	0.0868	"	"	"	"	"
Selenium	0.104	0.0868	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S05@5'

5/17/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-20 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1824	05/18/2023	05/19/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.5 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1819	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	85.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S05@5'

5/17/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-20 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.892	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	3.93	0.823	"	"	"	"	"
Sodium	0.834	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	45.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.8 %	33-122	"	"	"
Surrogate: itrobenzene-d5	40.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.53	pH Units	1	B3E1911	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-S05@5'

5/17/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-20 (Soil)

## SAR by 20B Saturated Paste

SAR	0.537		SAR	1	B3E1907	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.48	0.0952	mg/kg	10	B3E1822	05/18/2023	05/18/2023
Barium	149	9.52	"	"	"	"	"
Cadmium	0.206	0.0952	"	"	"	"	"
Selenium	0.102	0.0952	"	"	"	"	"

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 - Megan H16-33 O SA

**PW-E02@2.5'**

**5/17/2023 3:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305475-21 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1814	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1820	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "  
Surrogate: Toluene-d8 97.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-E02@2.5'

5/17/2023 3:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305475-21 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.57	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	48.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.9 %	33-122	"	"	"
Surrogate: itrobenzene-d5	40.7 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	7.75	pH Units	1	B3E1911	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-E02@2.5'

5/17/2023 3:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-21 (Soil)

## SAR by 20B Saturated Paste

SAR	0.262			SAR	1	B3E1907	05/19/2023	05/22/2023	
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## Table 915 metals by EPA 6020B

Arsenic	0.427	0.0883	mg/kg	10	B3E1823	05/18/2023	05/18/2023	
Barium	12.7	8.83	"	"	"	"	"	
Cadmium	ND	0.0883	"	"	"	"	"	U
Selenium	ND	0.0883	"	"	"	"	"	U

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 - Megan H16-33 O SA

PW-E02@5'

5/17/2023 3:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305475-22 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1814	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1820	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "  
Surrogate: Toluene-d8 97.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-E02@5'

5/17/2023 3:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-22 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.15		0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	0.000396	0.000394	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.000667	0.000643	0.00067	"	"	"	"	"	J

Surrogate: 2- luorobiphenyl	51.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63 %	33-122	"	"	"
Surrogate: itrobenzene-d5	44.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.26	pH Units	1	B3E1911	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-E02@5'

5/17/2023 3:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-22 (Soil)

## SAR by 20B Saturated Paste

SAR	0.0713		SAR	1	B3E1907	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.71	0.0849	mg/kg	10	B3E1823	05/18/2023	05/18/2023	
Barium	83.1	8.49	"	"	"	"	"	
Cadmium	ND	0.0849	"	"	"	"	"	U
Selenium	ND	0.0849	"	"	"	"	"	U

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 - Megan H16-33 O SA

## PW-E03@2.5'

5/17/2023 3:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y305475-23 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1814	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.9 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1820	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "  
Surrogate: Toluene-d8 97.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-E03@2.5'

5/17/2023 3:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-23 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.31	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	1.08	0.823	"	"	"	"	"
Sodium	0.436	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	48.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	43 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.31	pH Units	1	B3E1911	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-E03@2.5'

5/17/2023 3:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-23 (Soil)

## SAR by 20B Saturated Paste

SAR	0.335		SAR	1	B3E1907	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.71	0.0908	mg/kg	10	B3E1823	05/18/2023	05/18/2023
Barium	181	9.08	"	"	"	"	"
Cadmium	0.147	0.0908	"	"	"	"	"
Selenium	0.110	0.0908	"	"	"	"	"

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 - Megan H16-33 O SA

PW-E03@5'

5/17/2023 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305475-24 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1814	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 71.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1820	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "  
Surrogate: Toluene-d8 97.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-E03@5'

5/17/2023 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-24 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.672	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	1.96	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	37.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	50.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	33.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.46	pH Units	1	B3E1911	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-E03@5'

5/17/2023 3:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-24 (Soil)

## SAR by 20B Saturated Paste

SAR	0.329		SAR	1	B3E1907	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.71	0.0964	mg/kg	10	B3E1823	05/18/2023	05/18/2023
Barium	103	9.64	"	"	"	"	"
Cadmium	0.105	0.0964	"	"	"	"	"
Selenium	ND	0.0964	"	"	"	"	" U

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 - Megan H16-33 O SA

PW-W02@2.5'

5/17/2023 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-25 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1814	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.8 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1820	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-W02@2.5'

5/17/2023 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-25 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	4.46	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	2.03	0.823	"	"	"	"	"
Sodium	0.941	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	47.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.8 %	33-122	"	"	"
Surrogate: itrobenzene-d5	41.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.26	pH Units	1	B3E1911	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-W02@2.5'

5/17/2023 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-25 (Soil)

## SAR by 20B Saturated Paste

SAR	0.522		SAR	1	B3E1907	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.54	0.0978	mg/kg	10	B3E1823	05/18/2023	05/18/2023
Barium	117	9.78	"	"	"	"	"
Cadmium	0.126	0.0978	"	"	"	"	"
Selenium	0.105	0.0978	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W02@5'  
5/17/2023 3:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-26 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1814	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	63.1 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1820	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	97.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-W02@5'  
5/17/2023 3:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-26 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.67	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	3.10	0.823	"	"	"	"	"
Sodium	1.13	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	48.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60 %	33-122	"	"	"
Surrogate: itrobenzene-d5	43.7 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.37	pH Units	1	B3E1911	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-W02@5'  
5/17/2023 3:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-26 (Soil)

## SAR by 20B Saturated Paste

SAR	0.730		SAR	1	B3E1907	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.50	0.0906	mg/kg	10	B3E1823	05/18/2023	05/18/2023
Barium	188	9.06	"	"	"	"	"
Cadmium	0.154	0.0906	"	"	"	"	"
Selenium	0.106	0.0906	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W03@2.5'

5/17/2023 3:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-27 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1814	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.5 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1820	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130	"	"	"
Surrogate: Toluene-d8	96.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-W03@2.5'

5/17/2023 3:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-27 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	3.74	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	1.41	0.823	"	"	"	"	"
Sodium	0.735	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	47.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	40.9 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.28	pH Units	1	B3E1911	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-W03@2.5'

5/17/2023 3:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-27 (Soil)

## SAR by 20B Saturated Paste

SAR	0.458			SAR	1	B3E1907	05/19/2023	05/22/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.57	0.0896	mg/kg	10	B3E1823	05/18/2023	05/18/2023
Barium	131	8.96	"	"	"	"	"
Cadmium	0.136	0.0896	"	"	"	"	"
Selenium	0.190	0.0896	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W03@5'  
5/17/2023 3:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-28 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E1814	05/18/2023	05/18/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E1820	05/18/2023	05/18/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	97.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-W03@5'  
5/17/2023 3:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-28 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	4.24	0.499	meq/L	10	[CALC]	05/19/2023	05/22/2023
Magnesium	3.01	0.823	"	"	"	"	"
Sodium	1.29	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683505	05/23/2023	05/23/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	49.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.7 %	33-122	"	"	"
Surrogate: itrobenzene-d5	44 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.25	pH Units	1	B3E1911	05/19/2023	05/20/2023
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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 - Megan H16-33 O SA

PW-W03@5'  
5/17/2023 3:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305475-28 (Soil)

## SAR by 20B Saturated Paste

SAR	0.675			SAR	1	B3E1907	05/19/2023	05/22/2023	
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## Table 915 metals by EPA 6020B

Arsenic	2.27	0.0947	mg/kg	10	B3E1823	05/18/2023	05/18/2023	
Barium	93.7	9.47	"	"	"	"	"	
Cadmium	ND	0.0947	"	"	"	"	"	U
Selenium	ND	0.0947	"	"	"	"	"	U

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 - Megan H16-33 O SA

## 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 B3E1814 - EPA 3550B										
Blank (B3E1814-BLK1)					Prepared: 05/18/2023 Analyzed: 05/18/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		79.5	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 - Megan H16-33 O SA

**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 B3E1814 - EPA 3550B										
LCS (B3E1814-BS1)					Prepared: 05/18/2023 Analyzed: 05/18/2023					
Diesel (C10-C28)	808	50.0	mg/kg	1000		80.8	70-130			
Residual Range Organics (C28-C40)	856	200	"	1000		85.6	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.9	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 - Megan H16-33 O SA

## 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 B3E1814 - EPA 3550B

Matrix Spike (B3E1814-MS1)		Source: Y305456-01			Prepared: 05/18/2023 Analyzed: 05/18/2023					
Diesel (C10-C28)	999	50.0	mg/kg	1000	106	89.3	70-130			
Residual Range Organics (C28-C40)	800	200	"	1000	ND	80.0	70-130			
Surrogate: o-Terphenyl	39		"	49.8		78.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E1814 - EPA 3550B										
Matrix Spike Dup (B3E1814-MSD1)		Source: Y305456-01			Prepared: 05/18/2023 Analyzed: 05/18/2023					
Diesel (C10-C28)	903	50.0	mg/kg	1000	106	79.7	70-130	10.1	35	
Residual Range Organics (C28-C40)	816	200	"	1000	ND	81.6	70-130	1.98	35	
Surrogate: o-Terphenyl	35		"	49.8		70.7	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E1819 - EPA 5030 (soil)										
Blank (B3E1819-BLK1)					Prepared: 05/18/2023 Analyzed: 05/18/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.8	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 - Megan H16-33 O SA

## 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 B3E1819 - EPA 5030 (soil)

#### LCS (B3E1819-BS1)

Prepared: 05/18/2023 Analyzed: 05/18/2023

1,2,4-Trimethylbenzene	0.0963	0.00200	mg/kg	0.100		96.3	70-130			
1,3,5-Trimethylbenzene	0.0992	0.00200	"	0.100		99.2	70-130			
Benzene	0.0953	0.00200	"	0.100		95.3	70-130			
Ethylbenzene	0.0951	0.00200	"	0.100		95.1	70-130			
Naphthalene	0.0914	0.00380	"	0.100		91.4	70-130			
Toluene	0.0800	0.00200	"	0.100		80.0	70-130			
o-Xylene	0.0928	0.00200	"	0.100		92.8	70-130			
m,p-Xylene	0.191	0.00400	"	0.200		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		87.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
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## 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 B3E1819 - EPA 5030 (soil)										
Matrix Spike (B3E1819-MS1)		Source: Y305475-02			Prepared: 05/18/2023 Analyzed: 05/18/2023					
1,2,4-Trimethylbenzene	0.0869	0.00200	mg/kg	0.100	ND	86.9	70-130			
1,3,5-Trimethylbenzene	0.0895	0.00200	"	0.100	ND	89.5	70-130			
Benzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Ethylbenzene	0.0847	0.00200	"	0.100	ND	84.7	70-130			
Naphthalene	0.0967	0.00380	"	0.100	ND	96.7	70-130			
Toluene	0.0751	0.00200	"	0.100	ND	75.1	70-130			
o-Xylene	0.0844	0.00200	"	0.100	ND	84.4	70-130			
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		87.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E1819 - EPA 5030 (soil)										
Matrix Spike Dup (B3E1819-MSD1)			Source: Y305475-02		Prepared: 05/18/2023 Analyzed: 05/18/2023					
1,2,4-Trimethylbenzene	0.0844	0.00200	mg/kg	0.100	ND	84.4	70-130	2.85	20	
1,3,5-Trimethylbenzene	0.0867	0.00200	"	0.100	ND	86.7	70-130	3.22	20	
Benzene	0.0867	0.00200	"	0.100	ND	86.7	70-130	4.27	20	
Ethylbenzene	0.0824	0.00200	"	0.100	ND	82.4	70-130	2.83	20	
Naphthalene	0.0952	0.00380	"	0.100	ND	95.2	70-130	1.56	20	
Toluene	0.0720	0.00200	"	0.100	ND	72.0	70-130	4.21	20	
o-Xylene	0.0820	0.00200	"	0.100	ND	82.0	70-130	2.93	20	
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.5	70-130	2.94	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		85.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E1820 - EPA 5030 (soil)</b>										
<b>Blank (B3E1820-BLK1)</b>					Prepared: 05/18/2023 Analyzed: 05/18/2023					
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	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E1820 - EPA 5030 (soil)</b>										
<b>LCS (B3E1820-BS1)</b>					Prepared: 05/18/2023 Analyzed: 05/18/2023					
1,2,4-Trimethylbenzene	0.0992	0.00200	mg/kg	0.100		99.2	70-130			
1,3,5-Trimethylbenzene	0.0976	0.00200	"	0.100		97.6	70-130			
Benzene	0.0884	0.00200	"	0.100		88.4	70-130			
Ethylbenzene	0.0918	0.00200	"	0.100		91.8	70-130			
Naphthalene	0.0972	0.00380	"	0.100		97.2	70-130			
Toluene	0.0907	0.00200	"	0.100		90.7	70-130			
o-Xylene	0.0926	0.00200	"	0.100		92.6	70-130			
m,p-Xylene	0.191	0.00400	"	0.200		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E1820 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3E1820-MS1)</b>		<b>Source: Y305475-21</b>			Prepared: 05/18/2023 Analyzed: 05/18/2023					
1,2,4-Trimethylbenzene	0.0769	0.00200	mg/kg	0.100	ND	76.9	70-130			
1,3,5-Trimethylbenzene	0.0770	0.00200	"	0.100	ND	77.0	70-130			
Benzene	0.0750	0.00200	"	0.100	ND	75.0	70-130			
Ethylbenzene	0.0754	0.00200	"	0.100	ND	75.4	70-130			
Naphthalene	0.0698	0.00380	"	0.100	ND	69.8	70-130			QM-07
Toluene	0.0749	0.00200	"	0.100	ND	74.9	70-130			
o-Xylene	0.0761	0.00200	"	0.100	ND	76.1	70-130			
m,p-Xylene	0.157	0.00400	"	0.200	ND	78.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

Origins Laboratory, Inc.



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Dan Coloccia  
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Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E1820 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3E1820-MSD1)</b>			<b>Source: Y305475-21</b>		Prepared: 05/18/2023 Analyzed: 05/18/2023					
1,2,4-Trimethylbenzene	0.0764	0.00200	mg/kg	0.100	ND	76.4	70-130	0.600	20	
1,3,5-Trimethylbenzene	0.0769	0.00200	"	0.100	ND	76.9	70-130	0.0780	20	
Benzene	0.0743	0.00200	"	0.100	ND	74.3	70-130	0.937	20	
Ethylbenzene	0.0753	0.00200	"	0.100	ND	75.3	70-130	0.212	20	
Naphthalene	0.0693	0.00380	"	0.100	ND	69.3	70-130	0.690	20	QM-07
Toluene	0.0735	0.00200	"	0.100	ND	73.5	70-130	1.94	20	
o-Xylene	0.0751	0.00200	"	0.100	ND	75.1	70-130	1.32	20	
m,p-Xylene	0.156	0.00400	"	0.200	ND	77.9	70-130	0.959	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
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Project: KMG - Megan H16-33 O SA

## 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 B3E1824 - EPA 3550B										
Blank (B3E1824-BLK1)					Prepared: 05/18/2023 Analyzed: 05/18/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		78.3	50-150			

Origins Laboratory, Inc.



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Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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 B3E1824 - EPA 3550B										
LCS (B3E1824-BS1)					Prepared: 05/18/2023 Analyzed: 05/18/2023					
Diesel (C10-C28)	768	50.0	mg/kg	1000		76.8	70-130			
Residual Range Organics (C28-C40)	813	200	"	1000		81.3	70-130			
Surrogate: o-Terphenyl	40		"	49.8		81.1	50-150			

Origins Laboratory, Inc.



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## 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 B3E1824 - EPA 3550B

Matrix Spike (B3E1824-MS1)		Source: Y305475-02			Prepared: 05/18/2023 Analyzed: 05/18/2023					
Diesel (C10-C28)	802	50.0	mg/kg	1000	ND	80.2	70-130			
Residual Range Organics (C28-C40)	860	200	"	1000	ND	86.0	70-130			
Surrogate: o-Terphenyl	39		"	49.8		78.7	50-150			

Origins Laboratory, Inc.



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## 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 B3E1824 - EPA 3550B										
Matrix Spike Dup (B3E1824-MSD1)		Source: Y305475-02			Prepared: 05/18/2023 Analyzed: 05/18/2023					
Diesel (C10-C28)	796	50.0	mg/kg	1000	ND	79.6	70-130	0.788	35	
Residual Range Organics (C28-C40)	850	200	"	1000	ND	85.0	70-130	1.15	35	
Surrogate: o-Terphenyl	37		"	49.8		73.8	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project: KMG - Megan H16-33 O SA

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B3E1822 - EPA 3050B

#### Blank (B3E1822-BLK1)

Prepared: 05/18/2023 Analyzed: 05/18/2023

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

#### LCS (B3E1822-BS1)

Prepared: 05/18/2023 Analyzed: 05/18/2023

Arsenic	0.0453	0.000100	mg/kg	0.0500		90.6	80-120
Barium	5.06	0.0100	"	5.00		101	80-120
Cadmium	0.0487	0.000100	"	0.0500		97.3	80-120
Copper	0.468	0.0100	"	0.500		93.6	80-120
Lead	0.0495	0.0100	"	0.0500		98.9	80-120
Nickel	0.0478	0.0100	"	0.0500		95.6	80-120
Selenium	0.0476	0.000100	"	0.0500		95.2	80-120
Silver	0.0473	0.000100	"	0.0500		94.6	80-120
Zinc	0.440	0.100	"	0.500		87.9	80-120

#### Matrix Spike (B3E1822-MS1)

Source: Y305475-01

Prepared: 05/18/2023 Analyzed: 05/18/2023

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E1822 - EPA 3050B

Matrix Spike (B3E1822-MS1)		Source: Y305475-01			Prepared: 05/18/2023 Analyzed: 05/18/2023					
Arsenic	8.96	0.0876	mg/kg	4.38	4.74	96.3	75-125			
Barium	633	8.76	"	438	176	105	75-125			
Cadmium	4.35	0.0876	"	4.38	0.137	96.2	75-125			
Copper	49.8	8.76	"	43.8	10.2	90.3	75-125			
Lead	14.3	8.76	"	4.38	9.11	119	75-125			
Nickel	18.0	8.76	"	4.38	12.6	125	75-125			
Selenium	3.83	0.0876	"	4.38	0.149	84.2	75-125			
Silver	4.14	0.0876	"	4.38	0.0470	93.4	75-125			
Zinc	77.5	87.6	"	43.8	38.4	89.4	75-125			U

Matrix Spike Dup (B3E1822-MSD1)		Source: Y305475-01			Prepared: 05/18/2023 Analyzed: 05/18/2023					
Arsenic	8.65	0.0947	mg/kg	4.73	4.74	82.4	75-125	3.58	20	
Barium	658	9.47	"	473	176	102	75-125	3.79	20	
Cadmium	4.63	0.0947	"	4.73	0.137	94.9	75-125	6.23	20	
Copper	52.1	9.47	"	47.3	10.2	88.5	75-125	4.63	20	
Lead	13.7	9.47	"	4.73	9.11	97.3	75-125	4.45	20	
Nickel	17.2	9.47	"	4.73	12.6	98.0	75-125	4.67	20	
Selenium	4.40	0.0947	"	4.73	0.149	89.7	75-125	13.6	20	
Silver	4.42	0.0947	"	4.73	0.0470	92.3	75-125	6.55	20	
Zinc	78.4	94.7	"	47.3	38.4	84.5	75-125	1.12	20	U

#### Batch B3E1823 - EPA 3050B

Blank (B3E1823-BLK1)		Prepared: 05/18/2023 Analyzed: 05/18/2023								
Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U

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 - Megan H16-33 O SA

## Metals by EPA 6000/7000 Series Methods - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E1823 - EPA 3050B</b>										
<b>Blank (B3E1823-BLK1)</b>					Prepared: 05/18/2023 Analyzed: 05/18/2023					
Copper	ND	0.0100	mg/kg							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U
<b>LCS (B3E1823-BS1)</b>					Prepared: 05/18/2023 Analyzed: 05/18/2023					
Arsenic	0.0514	0.000100	mg/kg	0.0500		103	80-120			
Barium	4.95	0.0100	"	5.00		99.0	80-120			
Cadmium	0.0478	0.000100	"	0.0500		95.5	80-120			
Copper	0.467	0.0100	"	0.500		93.3	80-120			
Lead	0.0483	0.0100	"	0.0500		96.7	80-120			
Nickel	0.0474	0.0100	"	0.0500		94.8	80-120			
Selenium	0.0475	0.000100	"	0.0500		95.0	80-120			
Silver	0.0460	0.000100	"	0.0500		92.0	80-120			
Zinc	0.454	0.100	"	0.500		90.8	80-120			
<b>Matrix Spike (B3E1823-MS1)</b>					Source: Y305475-21 Prepared: 05/18/2023 Analyzed: 05/18/2023					
Arsenic	10.3	0.0955	mg/kg	4.78	0.427	206	75-125			QM-07
Barium	646	9.55	"	478	12.7	133	75-125			QM-07
Cadmium	4.60	0.0955	"	4.78	0.0159	96.1	75-125			
Copper	50.5	9.55	"	47.8	ND	106	75-125			
Lead	15.9	9.55	"	4.78	0.832	316	75-125			
Nickel	16.3	9.55	"	4.78	0.958	322	75-125			
Selenium	4.18	0.0955	"	4.78	ND	87.5	75-125			
Silver	4.43	0.0955	"	4.78	0.0124	92.5	75-125			

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 - Megan H16-33 O SA

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E1823 - EPA 3050B</b>										
<b>Matrix Spike (B3E1823-MS1)</b>		<b>Source: Y305475-21</b>			Prepared: 05/18/2023 Analyzed: 05/18/2023					
Zinc	85.1	95.5	mg/kg	47.8	ND	178	75-125			QM-07, U
<b>Matrix Spike Dup (B3E1823-MSD1)</b>		<b>Source: Y305475-21</b>			Prepared: 05/18/2023 Analyzed: 05/18/2023					
Arsenic	6.44	0.0908	mg/kg	4.54	0.427	132	75-125	45.9	20	QM-07, QR-DUP
Barium	491	9.08	"	454	12.7	105	75-125	27.4	20	QR-DUP
Cadmium	3.87	0.0908	"	4.54	0.0159	84.8	75-125	17.4	20	
Copper	41.0	9.08	"	45.4	ND	90.3	75-125	20.6	20	
Lead	9.20	9.08	"	4.54	0.832	184	75-125	53.5	20	
Nickel	9.41	9.08	"	4.54	0.958	186	75-125	53.7	20	
Selenium	3.86	0.0908	"	4.54	ND	85.1	75-125	7.81	20	
Silver	3.77	0.0908	"	4.54	0.0124	82.7	75-125	16.2	20	
Zinc	58.1	90.8	"	45.4	ND	128	75-125	37.7	20	QM-07, QR-DUP

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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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 B3E1906 - Saturated Paste Metals

##### Blank (B3E1906-BLK1)

Prepared: 05/19/2023 Analyzed: 05/22/2023

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

##### Duplicate (B3E1906-DUP1)

Source: Y305465-01

Prepared: 05/19/2023 Analyzed: 05/22/2023

SAR	0.00		SAR	2.12				200	200	U
Calcium PPM	68.3	10.0	mg/L	56.6				18.8	50	
Magnesium PPM	ND	10.0	"	3.24					50	U
Sodium PPM	56.6	10.0	"	60.5				6.52	50	

#### Batch B3E1907 - Saturated Paste Metals

##### Blank (B3E1907-BLK1)

Prepared: 05/19/2023 Analyzed: 05/22/2023

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

##### Duplicate (B3E1907-DUP1)

Source: Y305475-20

Prepared: 05/19/2023 Analyzed: 05/22/2023

SAR	0.00		SAR	0.537				200	200	U
Calcium PPM	12.5	10.0	mg/L	17.9				35.3	50	
Magnesium PPM	36.9	10.0	"	47.8				25.7	50	
Sodium PPM	14.9	10.0	"	19.2				25.2	50	

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Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E1910 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3E1910-DUP1)</b>		<b>Source: Y305465-01</b>			Prepared: 05/19/2023 Analyzed: 05/20/2023					
pH	10.7		pH Units		9.71			9.89	25	
<b>Batch B3E1911 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3E1911-DUP1)</b>		<b>Source: Y305475-20</b>			Prepared: 05/19/2023 Analyzed: 05/20/2023					
pH	8.49		pH Units		8.53			0.470	25	
<b>Batch B3E2316 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3E2316-DUP1)</b>		<b>Source: Y305108-01</b>			Prepared: 05/23/2023 Analyzed: 05/25/2023					
pH	7.82		pH Units		8.14			4.01	25	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L683505 - 3550B</b>										
<b>MSD (L 96339-MSD-L683505)</b>			<b>Source: Y305475-17</b>		Prepared: 05/23/2023 Analyzed: 05/23/2023					
Pyrene	0.098	0.00067	mg/Kg	0.166	<0.000643	59	30-130	14.2	30	
Naphthalene	0.0821	0.00201	"	0.166	<0.00145	49.4	30-130	5.9	30	
Fluorene	0.0808	0.00067	"	0.166	<0.000286	48.6	30-130	13.8	30	
Fluoranthene	0.102	0.00067	"	0.166	<0.000394	61.4	30-130	11.1	30	
Acenaphthene	0.0885	0.00067	"	0.166	<0.000304	53.3	30-130	9.9	30	
2-Methylnaphthalene	0.0764	0.00201	"	0.166	<0.00194	46	30-130	9.1	30	
Chrysene	0.104	0.00067	"	0.166	<0.000624	62.6	30-130	15.1	30	
1-Methylnaphthalene	0.079	0.00201	"	0.166	<0.00109	47.5	30-130	8.7	30	
Surrogate: 4-Terphenyl-d14	54.8		"	0.332	203	54.8	33-122			
Surrogate: itrobenzene-d5	39.7		"	0.332	137	39.7	29-110			
Surrogate: 2- luorobiphenyl	44.8		"	0.332	18	44.8	33-115			
<b>MS (L 96339-MS-L683505)</b>			<b>Source: Y305475-17</b>		Prepared: 05/23/2023 Analyzed: 05/23/2023					
Fluorene	0.0928	0.00067	mg/Kg	0.167	<0.000286	55.5	30-130			
1-Methylnaphthalene	0.0862	0.00201	"	0.167	<0.00109	51.6	30-130			
2-Methylnaphthalene	0.0837	0.00201	"	0.167	<0.00194	50.1	30-130			
Acenaphthene	0.0978	0.00067	"	0.167	<0.000304	58.5	30-130			
Fluoranthene	0.114	0.00067	"	0.167	<0.000394	68.2	30-130			
Naphthalene	0.0871	0.00201	"	0.167	<0.00145	52.1	30-130			
Pyrene	0.113	0.00067	"	0.167	<0.000643	67.6	30-130			
Chrysene	0.121	0.00067	"	0.167	<0.000624	72.4	30-130			
Surrogate: 2- luorobiphenyl	48.9		"	0.333	18	48.9	33-115			
Surrogate: 4-Terphenyl-d14	61.5		"	0.333	203	61.5	33-122			
Surrogate: itrobenzene-d5	42.6		"	0.333	137	42.6	29-110			
<b>LCS (LCS-L683505)</b>			Prepared: 05/23/2023 Analyzed: 05/23/2023							
1-Methylnaphthalene	0.0829	0.00201	mg/Kg	0.167		49.6	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L683505 - 3550B**

**LCS (LCS-L683505)**

Prepared: 05/23/2023 Analyzed: 05/23/2023

2-Methylnaphthalene	0.0843	0.00201	mg/Kg	0.167		50.4	30-130
Naphthalene	0.0853	0.00201	"	0.167		51	30-130
Fluorene	0.092	0.00067	"	0.167		55	30-130
Fluoranthene	0.116	0.00067	"	0.167		69.4	30-130
Pyrene	0.112	0.00067	"	0.167		67	30-130
Chrysene	0.126	0.00067	"	0.167		75.4	30-130
Acenaphthene	0.0924	0.00067	"	0.167		55.3	30-130

Surrogate: itrobenzene-d5	46.5		"	0.333		46.5	29-110
Surrogate: 2- luorobiphenyl	53.7		"	0.333		53.7	33-115
Surrogate: 4-Terphenyl-d14	67.8		"	0.333		67.8	33-122

**LRB (LRB-L683505)**

Prepared: 05/23/2023 Analyzed: 05/23/2023

Pyrene	ND	0.00067	mg/Kg			-	
Fluoranthene	ND	0.00067	"			-	
Chrysene	ND	0.00067	"			-	
Acenaphthene	ND	0.00067	"			-	
2-Methylnaphthalene	ND	0.00201	"			-	
1-Methylnaphthalene	ND	0.00201	"			-	
Naphthalene	ND	0.00201	"			-	
Fluorene	ND	0.00067	"			-	
Surrogate: 4-Terphenyl-d14	71.4		"	0.333		71.4	33-122
Surrogate: itrobenzene-d5	44.7		"	0.333		44.7	29-110
Surrogate: 2- luorobiphenyl	52.5		"	0.333		52.5	33-115

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L683573 - 3550B**

MSD (L 95918-MSD-L683573)		Source: 95918			Prepared: 05/23/2023 Analyzed: 05/24/2023					
Acenaphthene	0.121	0.00067	mg/Kg	0.164	0.0291	56	30-130	9.4	30	
Pyrene	0.119	0.00067	"	0.164	0.00185	71.4	30-130	1.6	30	
Naphthalene	0.289	0.00201	"	0.164	0.109	110	30-130	5.6	30	
Fluorene	0.115	0.00067	"	0.164	0.0272	53.5	30-130	6.7	30	
Chrysene	0.119	0.00067	"	0.164	0.000874	72	30-130	2.4	30	
2-Methylnaphthalene	0.257	0.00201	"	0.164	0.132	76.2	30-130	7.2	30	
1-Methylnaphthalene	0.459	0.00201	"	0.164	0.221	145	30-130	3.3	30	
Fluoranthene	0.121	0.00067	"	0.164	<0.000394	73.7	30-130	0.8	30	
Surrogate: itrobenzene-d5	32.5		"	0.329	139	32.5	29-110			
Surrogate: 4-Terphenyl-d14	71.1		"	0.329	249	71.1	33-122			
Surrogate: 2- luorobiphenyl	55.9		"	0.329	177	55.9	33-115			

MS (L 95918-MS-L683573)		Source: 95918			Prepared: 05/23/2023 Analyzed: 05/24/2023					
Chrysene	0.122	0.00067	mg/Kg	0.166	0.000874	72.9	30-130			
1-Methylnaphthalene	0.444	0.00201	"	0.166	0.221	134	30-130			
2-Methylnaphthalene	0.239	0.00201	"	0.166	0.132	64.4	30-130			
Pyrene	0.121	0.00067	"	0.166	0.00185	71.7	30-130			
Acenaphthene	0.133	0.00067	"	0.166	0.0291	62.5	30-130			
Fluoranthene	0.122	0.00067	"	0.166	<0.000394	73.4	30-130			
Fluorene	0.123	0.00067	"	0.166	0.0272	57.7	30-130			
Naphthalene	0.273	0.00201	"	0.166	0.109	98.7	30-130			
Surrogate: 2- luorobiphenyl	53.6		"	0.332	177	53.6	33-115			
Surrogate: itrobenzene-d5	37		"	0.332	139	37	29-110			
Surrogate: 4-Terphenyl-d14	70.7		"	0.332	249	70.7	33-122			

LCS (LCS-L683573)		Prepared: 05/23/2023 Analyzed: 05/24/2023								
Naphthalene	0.0988	0.00201	mg/Kg	0.167		59.1	30-130			

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Dan Coloccia  
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Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L683573 - 3550B**

**LCS (LCS-L683573)**

Prepared: 05/23/2023 Analyzed: 05/24/2023

1-Methylnaphthalene	0.11	0.00201	mg/Kg	0.167		65.8	30-130			
Fluorene	0.1	0.00067	"	0.167		59.8	30-130			
Chrysene	0.124	0.00067	"	0.167		74.2	30-130			
Acenaphthene	0.107	0.00067	"	0.167		64	30-130			
Pyrene	0.116	0.00067	"	0.167		69.4	30-130			
2-Methylnaphthalene	0.0959	0.00201	"	0.167		57.4	30-130			
Fluoranthene	0.118	0.00067	"	0.167		70.6	30-130			

Surrogate: itrobenzene-d5	54.9		"	0.333		54.9	29-110			
Surrogate: 4-Terphenyl-d14	74.1		"	0.333		74.1	33-122			
Surrogate: 2- luorobiphenyl	66.9		"	0.333		66.9	33-115			

**LRB (LRB-L683573)**

Prepared: 05/23/2023 Analyzed: 05/24/2023

Chrysene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: itrobenzene-d5	50.4		"	0.333		50.4	29-110			
Surrogate: 4-Terphenyl-d14	74.4		"	0.333		74.4	33-122			
Surrogate: 2- luorobiphenyl	58.2		"	0.333		58.2	33-115			

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Dan Coloccia  
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Project: KMG - Megan H16-33 O SA

## Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated value. Analyte below reported quantitation limit.
- QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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une 06, 2023

Eagle Environmental Consulting, LLC

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8000 W 44th Ave

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Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. May 24, 2023. This project is associated with Origins project number Y305635-01.

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 - Megan H16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-N02@8'	Y305635-01	Soil	May 24, 2023 12:50	05/24/2023 16:20
PW-N06@5'	Y305635-02	Soil	May 24, 2023 13:09	05/24/2023 16:20
PW-N03@8'	Y305635-03	Soil	May 24, 2023 13:11	05/24/2023 16:20
PW-N04@8'	Y305635-04	Soil	May 24, 2023 13:12	05/24/2023 16:20
PW-N05@8'	Y305635-05	Soil	May 24, 2023 13:15	05/24/2023 16:20
PW-S02@8'	Y305635-06	Soil	May 24, 2023 13:14	05/24/2023 16:20
PW-S06@2.5'	Y305635-07	Soil	May 24, 2023 13:13	05/24/2023 16:20
PW-S03@8'	Y305635-08	Soil	May 24, 2023 13:17	05/24/2023 16:20
PW-S04@8'	Y305635-09	Soil	May 24, 2023 13:18	05/24/2023 16:20
PW-S05@8'	Y305635-10	Soil	May 24, 2023 13:19	05/24/2023 16:20
PW-B06@10'	Y305635-11	Soil	May 24, 2023 13:20	05/24/2023 16:20
PW-B07@10'	Y305635-12	Soil	May 24, 2023 13:21	05/24/2023 16:20
PW-B08@10'	Y305635-13	Soil	May 24, 2023 13:22	05/24/2023 16:20
PW-E02@8'	Y305635-14	Soil	May 24, 2023 13:23	05/24/2023 16:20

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 - Megan H16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-E03@8'	Y305635-15	Soil	May 24, 2023 13:24	05/24/2023 16:20
PW-W02@8'	Y305635-16	Soil	May 24, 2023 13:25	05/24/2023 16:20
PW-W03@8'	Y305635-17	Soil	May 24, 2023 13:26	05/24/2023 16:20

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

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LABORATORY, INC

Impacted  
**4305635** page 1 of 2

www.originslaboratory.com

Client: Eagle Environmental (KMG)  
Address: 8000 W 44th Ave.  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0419  
Email Address: dcoloccia@eagle-envm.com  
Project Manager: D. Coloccia  
Project Name: Megan H16-33 O SA  
Project Number: -  
Samples Collected By: HA

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater		
PM-N0208	5/24/13	12:50	2	X					X	1
PM-N06051		13:09							X	2
PM-N03008		13:11							X	3
PM-N04008		13:12							X	4
PM-N05008		13:15							X	5
PM-S02008		13:14							X	6
PM-S06025		13:13							X	7
PM-S03008		13:17							X	8
PM-S04008		13:18							X	9
PM-S05008		13:19							X	10
Relinquished By: <u>HA</u>	Date: 5/24/13	Time: 10:20								
Received By: <u>HA</u>	Date: 5/24/13	Time: 10:20								

Temp Received-

5

Date Results Needed

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

Standard ☐

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
PN-ED06010	5/24/23	1320	2	X							X	1,2-methy, 1
PN-ED07010	5/24/23	1321	1								X	1,2-methy, 2
PN-ED08010	5/24/23	1322	1								X	1,2-methy, 3
PN-ED02008	5/24/23	1323	1								X	1,2-methy, 4
PN-ED03008	5/24/23	1324	3								X	1,2-methy, 5
PN-ED02008	5/24/23	1325	3								X	1,2-methy, 6
PN-ED03008	5/24/23	1326	3								X	1,2-methy, 7
Relinquished By: <i>[Signature]</i>	Date: 5/24/23	Time: 1420	Received By: <i>[Signature]</i>	Date: 5/24/23	Time: 1420	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- 5

Date Results Needed

Client: Eagle Environmental Consulting, LLC  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0419  
Email Address: dcoloccia@eagle-enviro.com  
Project Manager: D. Coloccia  
Project Name: KMG H16-33 O SA  
Project Number: 4305635  
Samples Collected By: HA

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4305635  
page 2 of 2

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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 - Megan H16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4305635

Client: Eagle

Client Project ID: Megan H 16-33 O SA

Checklist Completed by: EH5/TSH

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

Date/time completed: 5/24/23

Airbill #: NA

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

Cooler Number/Temperature: 115 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T003

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

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

[Signature]  
Reviewed by (Project Manager)

5/24/23  
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 - Megan H16-33 O SA

PW-N02@8'

5/24/2023 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.4 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130	"	"	"
Surrogate: Toluene-d8	99.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N02@8'

5/24/2023 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	1.67	0.823	"	"	"	"	"
Sodium	8.35	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.000405	0.000304	0.00067	"	"	"	"	J
Chrysene	0.00173	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.0032	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00119	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	0.00249	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	57.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.1 %	33-122	"	"	"
Surrogate: itrobenzene-d5	49.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.45	pH Units	1	B3E2516	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-N02@8'

5/24/2023 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-01 (Soil)

## SAR by 20B Saturated Paste

SAR	8.10			SAR	1	B3E2511	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.90	0.0910	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	184	9.10	"	"	"	"	"
Cadmium	0.184	0.0910	"	"	"	"	"
Selenium	0.100	0.0910	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N06@5'

5/24/2023 1:09:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-02 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.0 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.4 % 70-130 " " "  
Surrogate: Toluene-d8 99.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 93.8 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N06@5'  
5/24/2023 1:09:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-02 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.69	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	1.53	0.823	"	"	"	"	"
Sodium	0.876	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	60.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	50 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.36	pH Units	1	B3E2516	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-N06@5'

5/24/2023 1:09:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-02 (Soil)

## SAR by 20B Saturated Paste

SAR	0.691			SAR	1	B3E2511	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.01	0.0975	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	50.1	9.75	"	"	"	"	"
Cadmium	ND	0.0975	"	"	"	"	"
Selenium	ND	0.0975	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N03@8'

5/24/2023 1:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-03 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	30.7		25.0	mg/kg	1	B3E2427	05/24/2023	05/24/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.4 %		50-150			"	"	"	
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.269		0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	
1,3,5-Trimethylbenzene	0.280		0.00200	"	"	"	"	"	
Benzene	0.00286		0.00200	"	"	"	"	"	
Ethylbenzene	0.412		0.0500	"	25	"	"	05/25/2023	
Toluene	ND		0.00200	"	1	"	"	05/24/2023	U
Xylenes, total	0.633		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	15.8		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	144 %		70-130			"	"	"	S-
Surrogate: 4-Bromofluorobenzene	90.3 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	1.08		0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023	
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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 - Megan H16-33 O SA

PW-N03@8'

5/24/2023 1:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-03 (Soil)

## Metals by Saturated Paste by EPA 6010

Magnesium	2.27	0.823	meq/L	10	[CALC]	05/25/2023	05/26/2023
Sodium	4.93	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.0226	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	0.033	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00659	0.000304	0.00067	"	"	"	"	"
Chrysene	0.00109	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0136	0.000286	0.00067	"	"	"	"	"
Naphthalene	0.00626	0.00145	0.00201	"	"	"	"	"
Pyrene	0.0009	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	60.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.8 %	33-122	"	"	"
Surrogate: itrobenzene-d5	48.9 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.20	pH Units	1	B3E2516	05/25/2023	05/26/2023
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## SAR by 20B Saturated Paste

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 - Megan H16-33 O SA

PW-N03@8'

5/24/2023 1:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-03 (Soil)

## SAR by 20B Saturated Paste

SAR	3.81			SAR	1	B3E2511	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.32	0.0852	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	126	8.52	"	"	"	"	"
Cadmium	0.154	0.0852	"	"	"	"	"
Selenium	1.51	0.0852	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N04@8'

5/24/2023 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-04 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130	"	"	"
Surrogate: Toluene-d8	95.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.2 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N04@8'

5/24/2023 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-04 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.552	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	3.29	0.823	"	"	"	"	"
Sodium	1.15	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.000429	0.000394	0.00067	"	"	"	"	" J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	52.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55 %	33-122	"	"	"
Surrogate: itrobenzene-d5	45 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.42	pH Units	1	B3E2516	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-N04@8'

5/24/2023 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-04 (Soil)

## SAR by 20B Saturated Paste

SAR	0.832			SAR	1	B3E2511	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.76	0.0957	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	177	9.57	"	"	"	"	"
Cadmium	0.137	0.0957	"	"	"	"	"
Selenium	0.112	0.0957	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N05@8'

5/24/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-05 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.6 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N05@8'

5/24/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-05 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.825		0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	3.00		0.823	"	"	"	"	"
Sodium	1.02		0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00442	0.000304	0.00067	"	"	"	"	"
Chrysene	0.0203	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.0397	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00396	0.000286	0.00067	"	"	"	"	"
Naphthalene	0.00313	0.00145	0.00201	"	"	"	"	"
Pyrene	0.0275	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	53 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	45.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.36		pH Units	1	B3E2516	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-N05@8'

5/24/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-05 (Soil)

## SAR by 20B Saturated Paste

SAR	0.738			SAR	1	B3E2511	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	6.66	0.0951	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	220	9.51	"	"	"	"	"
Cadmium	0.170	0.0951	"	"	"	"	"
Selenium	0.0961	0.0951	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S02@8'

5/24/2023 1:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-06 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130	"	"	"
Surrogate: Toluene-d8	97.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.9 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S02@8'

5/24/2023 1:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-06 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.31	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	3.51	0.823	"	"	"	"	"
Sodium	0.679	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	60 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.1 %	33-122	"	"	"
Surrogate: itrobenzene-d5	51.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.31	pH Units	1	B3E2517	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-S02@8'

5/24/2023 1:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-06 (Soil)

## SAR by 20B Saturated Paste

SAR	0.437			SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.98	0.0894	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	95.0	8.94	"	"	"	"	"
Cadmium	0.137	0.0894	"	"	"	"	"
Selenium	ND	0.0894	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S06@2.5'

5/24/2023 1:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-07 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130	"	"	"
Surrogate: Toluene-d8	93.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

## PW-S06@2.5'

5/24/2023 1:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y305635-07 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	2.28	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	0.879	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

### PAH by 8270D SIM

1-Methylnaphthalene	0.0023	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	0.00451	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00109	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.00051	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00252	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	64.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	51.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	50.8 %	29-110	"	"	"

### pH in Soil by 9045D

pH	8.51	pH Units	1	B3E2517	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-S06@2.5'

5/24/2023 1:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-07 (Soil)

## SAR by 20B Saturated Paste

SAR	0.308			SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.40	0.0932	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	95.1	9.32	"	"	"	"	"
Cadmium	0.117	0.0932	"	"	"	"	"
Selenium	ND	0.0932	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S03@8'

5/24/2023 1:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-08 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.5 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00246	0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.8 % 70-130 " " "  
Surrogate: Toluene-d8 96.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.7 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S03@8'

5/24/2023 1:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-08 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.06	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	1.20	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00384	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	0.00811	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.000594	0.000304	0.00067	"	"	"	"	J
Chrysene	0.000955	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.000586	0.000394	0.00067	"	"	"	"	J
Fluorene	0.000735	0.000286	0.00067	"	"	"	"	"
Naphthalene	0.00153	0.00145	0.00201	"	"	"	"	J
Pyrene	0.000679	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	53.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.1 %	33-122	"	"	"
Surrogate: itrobenzene-d5	44.3 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.24	pH Units	1	B3E2517	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-S03@8'

5/24/2023 1:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-08 (Soil)

## SAR by 20B Saturated Paste

SAR	0.228		SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.04	0.0898	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	112	8.98	"	"	"	"	"
Cadmium	0.119	0.0898	"	"	"	"	"
Selenium	ND	0.0898	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S04@8'

5/24/2023 1:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-09 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.2 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130	"	"	"
Surrogate: Toluene-d8	95.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.1 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S04@8'

5/24/2023 1:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-09 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.04		0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	0.000571	0.000394	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2- fluorobiphenyl	64.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65 %	33-122	"	"	"
Surrogate: itrobenzene-d5	52.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.18		pH Units	1	B3E2517	05/25/2023	05/26/2023
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-S04@8'

5/24/2023 1:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-09 (Soil)

## SAR by 20B Saturated Paste

SAR	0.0916			SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.71	0.0903	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	67.5	9.03	"	"	"	"	"
Cadmium	0.101	0.0903	"	"	"	"	"
Selenium	0.116	0.0903	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S05@8'

5/24/2023 1:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-10 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.1 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.2 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-S05@8'

5/24/2023 1:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-10 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.873	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	4.11	0.823	"	"	"	"	"
Sodium	0.772	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	59.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	49.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.29	pH Units	1	B3E2517	05/25/2023	05/26/2023
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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-S05@8'

5/24/2023 1:19:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-10 (Soil)

## SAR by 20B Saturated Paste

SAR	0.489			SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.56	0.0960	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	99.9	9.60	"	"	"	"	"
Cadmium	0.137	0.0960	"	"	"	"	"
Selenium	0.110	0.0960	"	"	"	"	"

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B06@10'

5/24/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-11 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.3 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0127	0.00200	mg/kg	1	B3E2429	05/24/2023	05/24/2023	
1,3,5-Trimethylbenzene	0.0108	0.00200	"	"	"	"	"	
Benzene	0.196	0.00200	"	"	"	"	"	
Ethylbenzene	0.0134	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.0357	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.656	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 98.9 % 70-130 " " "  
Surrogate: Toluene-d8 106 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.1 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

Calcium	0.695	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023	
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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 - Megan H16-33 O SA

PW-B06@10'

5/24/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-11 (Soil)

## Metals by Saturated Paste by EPA 6010

Magnesium	3.25	0.823	meq/L	10	[CALC]	05/25/2023	05/26/2023
Sodium	3.95	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.0432	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	0.046	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.0173	0.000304	0.00067	"	"	"	"	"
Chrysene	0.00411	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.00815	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0434	0.000286	0.00067	"	"	"	"	"
Naphthalene	0.0407	0.00145	0.00201	"	"	"	"	"
Pyrene	0.0175	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	57.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	48.9 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.39	pH Units	1	B3E2517	05/25/2023	05/26/2023
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## SAR by 20B Saturated Paste

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B06@10'

5/24/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-11 (Soil)

## SAR by 20B Saturated Paste

SAR	2.81		SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.70	0.0878	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	226	8.78	"	"	"	"	"
Cadmium	0.165	0.0878	"	"	"	"	"
Selenium	0.0992	0.0878	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B07@10'

5/24/2023 1:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305635-12 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	1890	25.0	mg/kg	1	B3E2427	05/24/2023	05/25/2023
Residual Range Organics (C28-C40)	117	100	"	"	"	"	"

Surrogate: o-Terphenyl	98.8 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	52.2	0.500	mg/kg	250	B3E2429	05/24/2023	05/25/2023
1,3,5-Trimethylbenzene	37.5	0.500	"	"	"	"	"
Benzene	7.87	0.0500	"	25	"	"	05/25/2023
Ethylbenzene	8.92	0.0500	"	"	"	"	"
Toluene	ND	0.0500	"	"	"	"	" R-05, U
Xylenes, total	206	0.500	"	250	"	"	05/25/2023
Gasoline Range Hydrocarbons	3340	50.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	86.8 %	70-130	"	"	05/25/2023
Surrogate: Toluene-d8	233 %	70-130	"	"	" S-
Surrogate: 4-Bromofluorobenzene	95.4 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	1.12	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B07@10'

5/24/2023 1:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-12 (Soil)

## Metals by Saturated Paste by EPA 6010

Magnesium	4.39	0.823	meq/L	10	[CALC]	05/25/2023	05/26/2023
Sodium	11.0	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	2.46	0.0218	0.0402	mg/Kg	20	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	4.66	0.0387	0.0402	"	"	"	"	"
Acenaphthene	0.314	0.00608	0.0134	"	"	"	"	"
Chrysene	0.0153	0.0125	0.0134	"	"	"	"	"
Fluoranthene	ND	0.00788	0.0134	"	"	"	"	"
Fluorene	0.426	0.00572	0.0134	"	"	"	"	"
Naphthalene	1.4	0.029	0.0402	"	"	"	"	"
Pyrene	0.0135	0.0129	0.0134	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	65.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.9 %	33-122	"	"	"
Surrogate: itrobenzene-d5	31.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.87	pH Units	1	B3E2517	05/25/2023	05/26/2023
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## SAR by 20B Saturated Paste

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B07@10'

5/24/2023 1:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-12 (Soil)

## SAR by 20B Saturated Paste

SAR	6.65		SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.06	0.0871	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	158	8.71	"	"	"	"	"
Cadmium	0.179	0.0871	"	"	"	"	"
Selenium	0.112	0.0871	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B08@10'

5/24/2023 1:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-13 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	67.3 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	0.00242	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.00430	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00644	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130	"	"	"
Surrogate: Toluene-d8	98.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B08@10'

5/24/2023 1:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305635-13 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.36	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	0.865	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00153	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023	J
2-Methylnaphthalene	0.00327	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2- fluorobiphenyl	56.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	47.7 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.34	pH Units	1	B3E2517	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-B08@10'

5/24/2023 1:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-13 (Soil)

## SAR by 20B Saturated Paste

SAR	0.343			SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.93	0.0953	mg/kg	10	B3E2504	05/25/2023	05/25/2023
Barium	87.6	9.53	"	"	"	"	"
Cadmium	0.118	0.0953	"	"	"	"	"
Selenium	0.0953	0.0953	"	"	"	"	"

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 - Megan H16-33 O SA

PW-E02@8'

5/24/2023 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-14 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	0.205	0.00200	mg/kg	1	B3E2429	05/24/2023	05/25/2023	
1,3,5-Trimethylbenzene	0.154	0.00200	"	"	"	"	"	
Benzene	0.109	0.00200	"	"	"	"	"	
Ethylbenzene	0.0287	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.769	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	7.04	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130	"	"	"
Surrogate: Toluene-d8	118 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.7 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	0.826	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-E02@8'

5/24/2023 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-14 (Soil)

## Metals by Saturated Paste by EPA 6010

Magnesium	ND	0.823	meq/L	10	[CALC]	05/25/2023	05/26/2023
Sodium	1.88	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.014	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	0.0165	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.004	0.000304	0.00067	"	"	"	"	"
Chrysene	0.00153	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.00142	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0109	0.000286	0.00067	"	"	"	"	"
Naphthalene	0.00229	0.00145	0.00201	"	"	"	"	"
Pyrene	0.00178	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	56.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.1 %	33-122	"	"	"
Surrogate: itrobenzene-d5	46.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.34	pH Units	1	B3E2517	05/25/2023	05/26/2023
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## SAR by 20B Saturated Paste

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 - Megan H16-33 O SA

PW-E02@8'

5/24/2023 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-14 (Soil)

## SAR by 20B Saturated Paste

SAR	2.31		SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.96	0.0873	mg/kg	10	B3E2503	05/25/2023	05/25/2023
Barium	110	8.73	"	"	"	"	"
Cadmium	0.135	0.0873	"	"	"	"	"
Selenium	0.0969	0.0873	"	"	"	"	"

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 - Megan H16-33 O SA

PW-E03@8'

5/24/2023 1:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-15 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.3 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0350	0.00200	mg/kg	1	B3E2429	05/24/2023	05/25/2023	
1,3,5-Trimethylbenzene	0.0259	0.00200	"	"	"	"	"	
Benzene	0.00392	0.00200	"	"	"	"	"	
Ethylbenzene	0.0617	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.0875	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.266	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 97.7 % 70-130 " " "  
Surrogate: Toluene-d8 107 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.5 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

Calcium	0.709	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023	
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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 - Megan H16-33 O SA

PW-E03@8'

5/24/2023 1:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-15 (Soil)

## Metals by Saturated Paste by EPA 6010

Magnesium	2.07	0.823	meq/L	10	[CALC]	05/25/2023	05/26/2023
Sodium	1.68	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00763	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	0.00482	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00206	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00565	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	62.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.7 %	33-122	"	"	"
Surrogate: itrobenzene-d5	53.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.40	pH Units	1	B3E2517	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-E03@8'

5/24/2023 1:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-15 (Soil)

## SAR by 20B Saturated Paste

SAR	1.43			SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.27	0.0873	mg/kg	10	B3E2503	05/25/2023	05/25/2023
Barium	206	8.73	"	"	"	"	"
Cadmium	0.174	0.0873	"	"	"	"	"
Selenium	0.101	0.0873	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W02@8'  
5/24/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-16 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.4 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.0 % 70-130 " " "  
Surrogate: Toluene-d8 98.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.5 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-W02@8'  
5/24/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-16 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.52	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	2.92	0.823	"	"	"	"	"
Sodium	1.64	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684674	05/30/2023	06/01/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.000339	0.000286	0.00067	"	"	"	"	" J
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	59 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.1 %	33-122	"	"	"
Surrogate: itrobenzene-d5	48.9 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.36	pH Units	1	B3E2517	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-W02@8'  
5/24/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-16 (Soil)

## SAR by 20B Saturated Paste

SAR	1.10			SAR	1	B3E2512	05/25/2023	05/26/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.30	0.0965	mg/kg	10	B3E2503	05/25/2023	05/25/2023
Barium	104	9.65	"	"	"	"	"
Cadmium	0.126	0.0965	"	"	"	"	"
Selenium	ND	0.0965	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W03@8'  
5/24/2023 1:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-17 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2427	05/24/2023	05/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.2 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.2 % 70-130 " " "  
Surrogate: Toluene-d8 97.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.4 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-W03@8'  
5/24/2023 1:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-17 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.06	0.499	meq/L	10	[CALC]	05/25/2023	05/26/2023
Magnesium	2.78	0.823	"	"	"	"	"
Sodium	0.604	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684860	05/31/2023	06/01/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	48.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	47.4 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.39	pH Units	1	B3E2517	05/25/2023	05/26/2023
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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 - Megan H16-33 O SA

PW-W03@8'  
5/24/2023 1:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305635-17 (Soil)

### SAR by 20B Saturated Paste

SAR	0.388			SAR	1	B3E2512	05/25/2023	05/26/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.07	0.0916	mg/kg	10	B3E2503	05/25/2023	05/25/2023
Barium	86.8	9.16	"	"	"	"	"
Cadmium	0.117	0.0916	"	"	"	"	"
Selenium	0.123	0.0916	"	"	"	"	"

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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 B3E2427 - EPA 3550B										
Blank (B3E2427-BLK1)					Prepared: 05/24/2023 Analyzed: 05/24/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	17		"	24.9		70.3	50-150			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E2427 - EPA 3550B										
LCS (B3E2427-BS1)					Prepared: 05/24/2023 Analyzed: 05/24/2023					
Diesel (C10-C28)	787	50.0	mg/kg	1000		78.7	70-130			
Residual Range Organics (C28-C40)	839	200	"	1000		83.9	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.5	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E2427 - EPA 3550B										
<b>Matrix Spike (B3E2427-MS1)</b>		<b>Source: Y305635-01</b>			Prepared: 05/24/2023 Analyzed: 05/24/2023					
Diesel (C10-C28)	816	50.0	mg/kg	1000	ND	81.6	70-130			
Residual Range Organics (C28-C40)	854	200	"	1000	ND	85.4	70-130			
Surrogate: o-Terphenyl	41		"	49.8		81.4	50-150			

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Jordan A. Bynon, Project Manager



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E2427 - EPA 3550B										
Matrix Spike Dup (B3E2427-MSD1)		Source: Y305635-01			Prepared: 05/24/2023 Analyzed: 05/24/2023					
Diesel (C10-C28)	860	50.0	mg/kg	1000	ND	86.0	70-130	5.29	35	
Residual Range Organics (C28-C40)	888	200	"	1000	ND	88.8	70-130	3.84	35	
Surrogate: o-Terphenyl	44		"	49.8		88.2	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E2429 - EPA 5030 (soil)										
Blank (B3E2429-BLK1)					Prepared: 05/24/2023 Analyzed: 05/24/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E2429 - EPA 5030 (soil)</b>										
<b>LCS (B3E2429-BS1)</b>					Prepared: 05/24/2023 Analyzed: 05/24/2023					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	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	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.114	0.00200	"	0.100		114	70-130			
m,p-Xylene	0.236	0.00400	"	0.200		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.4	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**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 B3E2429 - EPA 5030 (soil)**

Matrix Spike (B3E2429-MS1)		Source: Y305635-01			Prepared: 05/24/2023 Analyzed: 05/24/2023					
1,2,4-Trimethylbenzene	0.121	0.00200	mg/kg	0.100	ND	121	70-130			
1,3,5-Trimethylbenzene	0.125	0.00200	"	0.100	0.00176	123	70-130			
Benzene	0.117	0.00200	"	0.100	0.000960	116	70-130			
Ethylbenzene	0.114	0.00200	"	0.100	0.000940	113	70-130			
Naphthalene	0.118	0.00380	"	0.100	0.00278	115	70-130			
Toluene	0.112	0.00200	"	0.100	ND	112	70-130			
o-Xylene	0.116	0.00200	"	0.100	ND	116	70-130			
m,p-Xylene	0.239	0.00400	"	0.200	0.00118	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.3	70-130			

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Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E2429 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3E2429-MSD1)</b>			<b>Source: Y305635-01</b>		Prepared: 05/24/2023 Analyzed: 05/24/2023					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130	8.64	20	
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	0.00176	112	70-130	9.01	20	
Benzene	0.110	0.00200	"	0.100	0.000960	109	70-130	6.19	20	
Ethylbenzene	0.107	0.00200	"	0.100	0.000940	106	70-130	5.75	20	
Naphthalene	0.115	0.00380	"	0.100	0.00278	113	70-130	2.31	20	
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	5.40	20	
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130	5.96	20	
m,p-Xylene	0.224	0.00400	"	0.200	0.00118	111	70-130	6.44	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.1	70-130			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E2503 - EPA 3050B

#### Blank (B3E2503-BLK1)

Prepared: 05/25/2023 Analyzed: 05/25/2023

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

#### LCS (B3E2503-BS1)

Prepared: 05/25/2023 Analyzed: 05/25/2023

Arsenic	0.0500	0.000100	mg/kg	0.0500	100	80-120
Barium	5.11	0.0100	"	5.00	102	80-120
Cadmium	0.0513	0.000100	"	0.0500	103	80-120
Copper	0.515	0.0100	"	0.500	103	80-120
Lead	0.0508	0.0100	"	0.0500	102	80-120
Nickel	0.0482	0.0100	"	0.0500	96.3	80-120
Selenium	0.0496	0.000100	"	0.0500	99.2	80-120
Silver	0.0517	0.000100	"	0.0500	103	80-120
Zinc	0.490	0.100	"	0.500	97.9	80-120

#### Matrix Spike (B3E2503-MS1)

Source: Y305412-01

Prepared: 05/25/2023 Analyzed: 05/25/2023

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E2503 - EPA 3050B

Matrix Spike (B3E2503-MS1)		Source: Y305412-01			Prepared: 05/25/2023 Analyzed: 05/25/2023					
Arsenic	8.39	0.0969	mg/kg	4.85	2.27	126	75-125			QM-07
Barium	14800	9.69	"	485	5360	NR	75-125			QM-02
Cadmium	5.63	0.0969	"	4.85	0.204	112	75-125			
Copper	72.7	9.69	"	48.5	15.0	119	75-125			
Lead	13.3	9.69	"	4.85	4.74	177	75-125			
Nickel	14.4	9.69	"	4.85	43.2	NR	75-125			
Selenium	5.53	0.0969	"	4.85	0.267	109	75-125			
Silver	5.41	0.0969	"	4.85	0.0745	110	75-125			
Zinc	115	96.9	"	48.5	421	NR	75-125			

Matrix Spike Dup (B3E2503-MSD1)		Source: Y305412-01			Prepared: 05/25/2023 Analyzed: 05/25/2023					
Arsenic	7.49	0.0867	mg/kg	4.33	2.27	121	75-125	11.3	20	
Barium	12000	8.67	"	433	5360	NR	75-125	20.7	20	QM-02
Cadmium	5.33	0.0867	"	4.33	0.204	118	75-125	5.49	20	
Copper	74.8	8.67	"	43.3	15.0	138	75-125	2.79	20	
Lead	13.4	8.67	"	4.33	4.74	199	75-125	0.557	20	
Nickel	14.1	8.67	"	4.33	43.2	NR	75-125	2.29	20	
Selenium	5.03	0.0867	"	4.33	0.267	110	75-125	9.55	20	
Silver	4.89	0.0867	"	4.33	0.0745	111	75-125	10.2	20	
Zinc	108	86.7	"	43.3	421	NR	75-125	6.64	20	

#### Batch B3E2504 - EPA 3050B

Blank (B3E2504-BLK1)		Prepared: 05/25/2023 Analyzed: 05/25/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E2504 - EPA 3050B

##### Blank (B3E2504-BLK1)

Prepared: 05/25/2023 Analyzed: 05/25/2023

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

##### LCS (B3E2504-BS1)

Prepared: 05/25/2023 Analyzed: 05/25/2023

Arsenic	0.0505	0.000100	mg/kg	0.0500	101	80-120
Barium	5.26	0.0100	"	5.00	105	80-120
Cadmium	0.0525	0.000100	"	0.0500	105	80-120
Copper	0.527	0.0100	"	0.500	105	80-120
Lead	0.0515	0.0100	"	0.0500	103	80-120
Nickel	0.0481	0.0100	"	0.0500	96.1	80-120
Selenium	0.0536	0.000100	"	0.0500	107	80-120
Silver	0.0530	0.000100	"	0.0500	106	80-120
Zinc	0.471	0.100	"	0.500	94.2	80-120

##### Matrix Spike (B3E2504-MS1)

Source: Y305631-05

Prepared: 05/25/2023 Analyzed: 05/25/2023

Arsenic	6.16	0.0920	mg/kg	4.60	2.30	83.8	75-125
Barium	552	9.20	"	460	78.6	103	75-125
Cadmium	4.88	0.0920	"	4.60	0.0653	105	75-125
Copper	50.7	9.20	"	46.0	4.81	99.8	75-125
Lead	9.74	9.20	"	4.60	5.05	102	75-125
Nickel	10.3	9.20	"	4.60	5.98	93.7	75-125
Selenium	4.73	0.0920	"	4.60	0.0420	102	75-125
Silver	5.02	0.0920	"	4.60	0.0196	109	75-125

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Project: KMG - Megan H16-33 O SA

## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E2504 - EPA 3050B</b>										
<b>Matrix Spike (B3E2504-MS1)</b>		<b>Source: Y305631-05</b>			Prepared: 05/25/2023 Analyzed: 05/25/2023					
Zinc	65.7	92.0	mg/kg	46.0	22.9	92.9	75-125			
<b>Matrix Spike Dup (B3E2504-MSD1)</b>		<b>Source: Y305631-05</b>			Prepared: 05/25/2023 Analyzed: 05/25/2023					
Arsenic	6.71	0.0934	mg/kg	4.67	2.30	94.5	75-125	8.66	20	
Barium	559	9.34	"	467	78.6	103	75-125	1.27	20	
Cadmium	4.94	0.0934	"	4.67	0.0653	104	75-125	1.18	20	
Copper	51.3	9.34	"	46.7	4.81	99.6	75-125	1.17	20	
Lead	9.91	9.34	"	4.67	5.05	104	75-125	1.72	20	
Nickel	10.7	9.34	"	4.67	5.98	101	75-125	3.99	20	
Selenium	4.76	0.0934	"	4.67	0.0420	101	75-125	0.640	20	
Silver	5.03	0.0934	"	4.67	0.0196	107	75-125	0.175	20	
Zinc	66.6	93.4	"	46.7	22.9	93.6	75-125	1.48	20	

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8000 W 44th Ave  
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E2511 - Saturated Paste Metals

##### Blank (B3E2511-BLK1)

Prepared: 05/25/2023 Analyzed: 05/26/2023

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

##### Duplicate (B3E2511-DUP1)

Source: Y305631-02

Prepared: 05/25/2023 Analyzed: 05/26/2023

SAR	0.00		SAR	0.901	200	200
Calcium PPM	49.4	10.0	mg/L	48.1	2.69	50
Magnesium PPM	10.6	10.0	"	10.3	2.77	50
Sodium PPM	27.0	10.0	"	26.4	2.47	50

#### Batch B3E2512 - Saturated Paste Metals

##### Blank (B3E2512-BLK1)

Prepared: 05/25/2023 Analyzed: 05/26/2023

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

##### Duplicate (B3E2512-DUP1)

Source: Y305635-06

Prepared: 05/25/2023 Analyzed: 05/26/2023

Calcium PPM	29.7	10.0	mg/L	26.3	12.2	50
SAR	0.00		SAR	0.437	200	200
Magnesium PPM	50.7	10.0	mg/L	42.6	17.2	50
Sodium PPM	20.4	10.0	"	15.6	26.6	50

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E2516 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3E2516-DUP1)</b>		<b>Source: Y305631-02</b>			Prepared: 05/25/2023 Analyzed: 05/26/2023					
pH	7.99		pH Units		8.11			1.49	25	
<b>Batch B3E2517 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3E2517-DUP1)</b>		<b>Source: Y305635-06</b>			Prepared: 05/25/2023 Analyzed: 05/26/2023					
pH	8.20		pH Units		8.31			1.33	25	

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L684860 - 3550B</b>										
<b>MSD (L 99326-MSD-L684860)</b>										
<b>Source: 99326</b>				Prepared: 05/31/2023 Analyzed: 06/01/2023						
1-Methylnaphthalene	0.0971	0.00201	mg/Kg	0.165	<0.00109	58.8	30-130	11.4	30	
Naphthalene	0.0919	0.00201	"	0.165	<0.00145	55.6	30-130	10	30	
Fluorene	0.111	0.00067	"	0.165	<0.000286	67.2	30-130	11.9	30	
Fluoranthene	0.122	0.00067	"	0.165	<0.000394	73.9	30-130	10.3	30	
Chrysene	0.113	0.00067	"	0.165	<0.000624	68.4	30-130	11.2	30	
Acenaphthene	0.105	0.00067	"	0.165	<0.000304	63.6	30-130	12.3	30	
2-Methylnaphthalene	0.0975	0.00201	"	0.165	<0.00194	59	30-130	10.9	30	
Pyrene	0.125	0.00067	"	0.165	<0.000643	75.7	30-130	10.9	30	
Surrogate: itrobenzene-d5	53.6		"	0.33	1 8	53.6	29-110			
Surrogate: 4-Terphenyl-d14	70		"	0.33	27	70	33-122			
Surrogate: 2- luorobiphenyl	57.5		"	0.33	1	57.5	33-115			
<b>MS (L 99326-MS-L684860)</b>										
<b>Source: 99326</b>				Prepared: 05/31/2023 Analyzed: 06/01/2023						
1-Methylnaphthalene	0.0866	0.00201	mg/Kg	0.167	<0.00109	51.8	30-130			
Pyrene	0.112	0.00067	"	0.167	<0.000643	67	30-130			
Naphthalene	0.0831	0.00201	"	0.167	<0.00145	49.7	30-130			
Fluorene	0.0985	0.00067	"	0.167	<0.000286	58.9	30-130			
Fluoranthene	0.11	0.00067	"	0.167	<0.000394	65.8	30-130			
Chrysene	0.101	0.00067	"	0.167	<0.000624	60.4	30-130			
Acenaphthene	0.0928	0.00067	"	0.167	<0.000304	55.5	30-130			
2-Methylnaphthalene	0.0874	0.00201	"	0.167	<0.00194	52.3	30-130			
Surrogate: itrobenzene-d5	47.1		"	0.333	1 8	47.1	29-110			
Surrogate: 4-Terphenyl-d14	61.5		"	0.333	27	61.5	33-122			
Surrogate: 2- luorobiphenyl	48.9		"	0.333	1	48.9	33-115			
<b>LCS (LCS-L684860)</b>										
				Prepared: 05/31/2023 Analyzed: 06/01/2023						
Chrysene	0.113	0.00067	mg/Kg	0.167		67.6	30-130			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L684860 - 3550B**

**LCS (LCS-L684860)**

Prepared: 05/31/2023 Analyzed: 06/01/2023

1-Methylnaphthalene	0.106	0.00201	mg/Kg	0.167		63.4	30-130			
2-Methylnaphthalene	0.106	0.00201	"	0.167		63.4	30-130			
Acenaphthene	0.113	0.00067	"	0.167		67.6	30-130			
Fluoranthene	0.126	0.00067	"	0.167		75.4	30-130			
Fluorene	0.118	0.00067	"	0.167		70.6	30-130			
Pyrene	0.129	0.00067	"	0.167		77.2	30-130			
Naphthalene	0.1	0.00201	"	0.167		59.8	30-130			

Surrogate: 2- Iuorobiphenyl	66.9		"	0.333		66.9	33-115			
Surrogate: itrobenzene-d5	62.1		"	0.333		62.1	29-110			
Surrogate: 4-Terphenyl-d14	78.9		"	0.333		78.9	33-122			

**LRB (LRB-L684860)**

Prepared: 05/31/2023 Analyzed: 06/01/2023

2-Methylnaphthalene	ND	0.00201	mg/Kg				-			
Fluorene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Surrogate: 2- Iuorobiphenyl	52.2		"	0.333		52.2	33-115			
Surrogate: 4-Terphenyl-d14	66.9		"	0.333		66.9	33-122			
Surrogate: itrobenzene-d5	48.9		"	0.333		48.9	29-110			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L684674 - 3550B**

MSD (L 99098-MSD-L684674)		Source: 99098			Prepared: 05/30/2023 Analyzed: 06/01/2023					
1-Methylnaphthalene	0.0896	0.00201	mg/Kg	0.162	<0.00109	55.3	30-130	10.9	30	
Pyrene	0.1	0.00067	"	0.162	<0.000643	61.7	30-130	8.6	30	
Naphthalene	0.0835	0.00201	"	0.162	<0.00145	51.5	30-130	10.7	30	
Fluorene	0.101	0.00067	"	0.162	<0.000286	62.3	30-130	12.9	30	
Fluoranthene	0.101	0.00067	"	0.162	<0.000394	62.3	30-130	10.3	30	
Chrysene	0.103	0.00067	"	0.162	<0.000624	63.5	30-130	9.2	30	
Acenaphthene	0.0907	0.00067	"	0.162	<0.000304	55.9	30-130	11.7	30	
2-Methylnaphthalene	0.0914	0.00201	"	0.162	<0.00194	56.4	30-130	11.9	30	
Surrogate: itrobenzene-d5	49.5		"	0.325	170	49.5	29-110			
Surrogate: 4-Terphenyl-d14	62.4		"	0.325	214	62.4	33-122			
Surrogate: 2- luorobiphenyl	59		"	0.325	207	59	33-115			

MS (L 99098-MS-L684674)		Source: 99098			Prepared: 05/30/2023 Analyzed: 06/01/2023					
1-Methylnaphthalene	0.1	0.00201	mg/Kg	0.162	<0.00109	61.7	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.162	<0.00194	63.5	30-130			
Pyrene	0.109	0.00067	"	0.162	<0.000643	67.2	30-130			
Naphthalene	0.093	0.00201	"	0.162	<0.00145	57.4	30-130			
Fluorene	0.115	0.00067	"	0.162	<0.000286	70.9	30-130			
Chrysene	0.113	0.00067	"	0.162	<0.000624	69.7	30-130			
Acenaphthene	0.102	0.00067	"	0.162	<0.000304	62.9	30-130			
Fluoranthene	0.112	0.00067	"	0.162	<0.000394	69.1	30-130			
Surrogate: 4-Terphenyl-d14	71.6		"	0.325	214	71.6	33-122			
Surrogate: itrobenzene-d5	56		"	0.325	170	56	29-110			
Surrogate: 2- luorobiphenyl	68		"	0.325	207	68	33-115			

LCS (LCS-L684674)		Prepared: 05/30/2023 Analyzed: 06/01/2023								
Naphthalene	0.0956	0.00201	mg/Kg	0.167		57.2	30-130			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L684674 - 3550B</b>										
<b>LCS (LCS-L684674)</b>					Prepared: 05/30/2023 Analyzed: 06/01/2023					
1-Methylnaphthalene	0.102	0.00201	mg/Kg	0.167		61	30-130			
2-Methylnaphthalene	0.105	0.00201	"	0.167		62.8	30-130			
Acenaphthene	0.102	0.00067	"	0.167		61	30-130			
Chrysene	0.113	0.00067	"	0.167		67.6	30-130			
Fluoranthene	0.112	0.00067	"	0.167		67	30-130			
Fluorene	0.113	0.00067	"	0.167		67.6	30-130			
Pyrene	0.11	0.00067	"	0.167		65.8	30-130			
Surrogate: itrobenzene-d5	61.8		"	0.333		61.8	29-110			
Surrogate: 2- luorobiphenyl	74.1		"	0.333		74.1	33-115			
Surrogate: 4-Terphenyl-d14	79.2		"	0.333		79.2	33-122			
<b>LRB (LRB-L684674)</b>					Prepared: 05/30/2023 Analyzed: 06/01/2023					
Chrysene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: 2- luorobiphenyl	67.5		"	0.333		67.5	33-115			
Surrogate: 4-Terphenyl-d14	74.4		"	0.333		74.4	33-122			
Surrogate: itrobenzene-d5	55.5		"	0.333		55.5	29-110			

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 - Megan H16-33 O SA

## Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- J Estimated value. Analyte below reported quantitation limit.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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.*





une 06, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. May 31, 2023. This project is associated with Origins project number Y305778-01.

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 - Megan H16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B09@12'	Y305778-01	Soil	May 31, 2023 10:30	05/31/2023 12:33
PW-B10@12'	Y305778-02	Soil	May 31, 2023 10:32	05/31/2023 12:33
PW-B11@12'	Y305778-03	Soil	May 31, 2023 10:34	05/31/2023 12:33
PW-N02@10'	Y305778-04	Soil	May 31, 2023 10:36	05/31/2023 12:33
PW-N03@9'	Y305778-05	Soil	May 31, 2023 10:38	05/31/2023 12:33
PW-S02@10'	Y305778-06	Soil	May 31, 2023 10:40	05/31/2023 12:33
PW-S03@10'	Y305778-07	Soil	May 31, 2023 10:42	05/31/2023 12:33
PW-E04@8'	Y305778-08	Soil	May 31, 2023 10:44	05/31/2023 12:33
PW-E05@8'	Y305778-09	Soil	May 31, 2023 10:46	05/31/2023 12:33
PW-W02@10'	Y305778-10	Soil	May 31, 2023 10:48	05/31/2023 12:33
PW-W03@10'	Y305778-11	Soil	May 31, 2023 10:50	05/31/2023 12:33

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.*

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

[illegible]

Origins Laboratory, Inc.

Byron

*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 - Megan H16-33 O SA

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4305778 Client: Eagle  
Client Project ID: Megan H16-33 O SA

Checklist Completed by: EHS Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 5/31/23 Airbill #: NA

Matrix(s) Received: (Check all that apply): 4 Soil/Solid        Water        Other:       

Cooler Number/Temperature: 1 15.6 °C        °C        °C (Describe)        °C

Thermometer ID: TOO U

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		/		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 5/31/23

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 - Megan H16-33 O SA

PW-B09@12'

5/31/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	84.3		25.0	mg/kg	1	B3E3120	05/31/2023	05/31/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.0 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.243		0.00200	mg/kg	1	B3E3121	05/31/2023	06/01/2023	
1,3,5-Trimethylbenzene	0.354		0.00200	"	"	"	"	"	
Benzene	0.0111		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	7.42		0.0500	"	25	"	"	06/01/2023	
Gasoline Range Hydrocarbons	197		5.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 95.6 % 70-130 " " 06/01/2023  
Surrogate: Toluene-d8 127 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

Calcium	1.50		0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023	
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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 - Megan H16-33 O SA

PW-B09@12'

5/31/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Magnesium	4.24	0.823	meq/L	10	[CALC]	06/01/2023	06/02/2023
Sodium	5.72	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.0292	0.00109	0.00201	mg/Kg	1	L685421	06/02/2023	06/05/2023
2-Methylnaphthalene	0.0554	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00591	0.000304	0.00067	"	"	"	"	"
Chrysene	0.000838	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0113	0.000286	0.00067	"	"	"	"	"
Naphthalene	0.0096	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	53.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	52 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.04	pH Units	1	B3F0109	06/01/2023	06/02/2023
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## SAR by 20B Saturated Paste

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 - Megan H16-33 O SA

PW-B09@12'

5/31/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-01 (Soil)

## SAR by 20B Saturated Paste

SAR	3.38			SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.06	0.0970	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	145	9.70	"	"	"	"	"
Cadmium	0.117	0.0970	"	"	"	"	"
Selenium	ND	0.0970	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B10@12'

5/31/2023 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-02 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3120	05/31/2023	05/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.9 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3121	05/31/2023	06/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.0204	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "  
Surrogate: Toluene-d8 91.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.2 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B10@12'

5/31/2023 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-02 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.23	0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023
Magnesium	8.32	0.823	"	"	"	"	"
Sodium	4.24	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L685421	06/02/2023	06/05/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	51.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	52 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.07	pH Units	1	B3F0109	06/01/2023	06/02/2023
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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 - Megan H16-33 O SA

PW-B10@12'

5/31/2023 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-02 (Soil)

## SAR by 20B Saturated Paste

SAR	1.94			SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.42	0.0943	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	302	9.43	"	"	"	"	"
Cadmium	0.203	0.0943	"	"	"	"	"
Selenium	0.108	0.0943	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B11@12'

5/31/2023 10:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-03 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3120	05/31/2023	05/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.8 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3121	05/31/2023	06/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.135	0.00200	"	"	"	"	"	
Ethylbenzene	0.00830	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.469	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "

Surrogate: Toluene-d8 100 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 93.2 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B11@12'

5/31/2023 10:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-03 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.03	0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023
Magnesium	4.00	0.823	"	"	"	"	"
Sodium	9.97	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00258	0.00109	0.00201	mg/Kg	1	L685421	06/02/2023	06/05/2023
2-Methylnaphthalene	0.00691	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.000801	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00149	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	90.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	120 %	33-122	"	"	"
Surrogate: itrobenzene-d5	82.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.18	pH Units	1	B3F0109	06/01/2023	06/02/2023
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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 - Megan H16-33 O SA

PW-B11@12'

5/31/2023 10:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-03 (Soil)

## SAR by 20B Saturated Paste

SAR	6.29			SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.23	0.0912	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	355	9.12	"	"	"	"	"
Cadmium	0.183	0.0912	"	"	"	"	"
Selenium	0.142	0.0912	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N02@10'

5/31/2023 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-04 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3120	05/31/2023	05/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.3 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3121	05/31/2023	06/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.24	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 98.8 % 70-130 " " "  
Surrogate: Toluene-d8 108 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N02@10'

5/31/2023 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-04 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023
Magnesium	1.56	0.823	"	"	"	"	"
Sodium	7.18	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00159	0.00109	0.00201	mg/Kg	1	L685421	06/02/2023	06/05/2023	J
2-Methylnaphthalene	0.00194	0.00194	0.00201	"	"	"	"	"	J
Acenaphthene	0.00056	0.000304	0.00067	"	"	"	"	"	J
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00164	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2- luorobiphenyl	54.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68 %	33-122	"	"	"
Surrogate: itrobenzene-d5	53.8 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.35	pH Units	1	B3F0109	06/01/2023	06/02/2023
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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 - Megan H16-33 O SA

PW-N02@10'

5/31/2023 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-04 (Soil)

## SAR by 20B Saturated Paste

SAR	7.33			SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.92	0.0879	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	226	8.79	"	"	"	"	"
Cadmium	0.178	0.0879	"	"	"	"	"
Selenium	0.126	0.0879	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N03@9'

5/31/2023 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-05 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3120	05/31/2023	05/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.4 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3121	05/31/2023	06/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
Surrogate: Toluene-d8 94.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N03@9'

5/31/2023 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-05 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.66	0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023
Magnesium	1.51	0.823	"	"	"	"	"
Sodium	0.928	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L685675	06/05/2023	06/05/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	54.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65.8 %	33-122	"	"	"
Surrogate: itrobenzene-d5	53.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.26	pH Units	1	B3F0109	06/01/2023	06/02/2023
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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 - Megan H16-33 O SA

PW-N03@9'

5/31/2023 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-05 (Soil)

## SAR by 20B Saturated Paste

SAR	0.736			SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.82	0.0940	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	79.2	9.40	"	"	"	"	"
Cadmium	ND	0.0940	"	"	"	"	"
Selenium	0.0968	0.0940	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S02@10'

5/31/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-06 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3120	05/31/2023	05/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 72.4 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3121	05/31/2023	06/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.7 % 70-130 " " "  
Surrogate: Toluene-d8 96.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S02@10'

5/31/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-06 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.570	0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023
Magnesium	4.54	0.823	"	"	"	"	"
Sodium	3.12	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L685675	06/05/2023	06/05/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	53.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.8 %	33-122	"	"	"
Surrogate: itrobenzene-d5	52.3 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.23	pH Units	1	B3F0109	06/01/2023	06/02/2023
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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 - Megan H16-33 O SA

PW-S02@10'

5/31/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-06 (Soil)

## SAR by 20B Saturated Paste

SAR	1.95			SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.79	0.0967	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	225	9.67	"	"	"	"	"
Cadmium	0.158	0.0967	"	"	"	"	"
Selenium	0.123	0.0967	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S03@10'

5/31/2023 10:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-07 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	132		25.0	mg/kg	1	B3E3120	05/31/2023	05/31/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.8 %		50-150			"	"	"	
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.394		0.0500	mg/kg	25	B3E3121	05/31/2023	06/01/2023	
1,3,5-Trimethylbenzene	ND		0.00200	"	1	"	"	06/01/2023	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00380		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00568		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	23.2		5.00	"	25	"	"	06/01/2023	

Surrogate: 1,2-Dichloroethane-d4	94.2 %		70-130			"	"	06/01/2023	
Surrogate: Toluene-d8	131 %		70-130			"	"	"	S-
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S03@10'

5/31/2023 10:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-07 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.798	0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023
Magnesium	3.65	0.823	"	"	"	"	"
Sodium	2.72	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00189	0.00109	0.00201	mg/Kg	1	L685675	06/05/2023	06/05/2023	J
2-Methylnaphthalene	0.0027	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00174	0.000304	0.00067	"	"	"	"	"	
Chrysene	0.000655	0.000624	0.00067	"	"	"	"	"	J
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00594	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2- fluorobiphenyl	55.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	53.8 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.19	pH Units	1	B3F0109	06/01/2023	06/02/2023
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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 - Megan H16-33 O SA

PW-S03@10'

5/31/2023 10:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-07 (Soil)

## SAR by 20B Saturated Paste

SAR	1.82		SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.34	0.0894	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	203	8.94	"	"	"	"	"
Cadmium	0.154	0.0894	"	"	"	"	"
Selenium	0.101	0.0894	"	"	"	"	"

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 - Megan H16-33 O SA

PW-E04@8'

5/31/2023 10:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-08 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3120	05/31/2023	05/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.7 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3121	05/31/2023	06/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.879	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130	"	"	"
Surrogate: Toluene-d8	95.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-E04@8'

5/31/2023 10:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-08 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.887	0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023
Magnesium	1.85	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L685675	06/05/2023	06/05/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	51.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.8 %	33-122	"	"	"
Surrogate: itrobenzene-d5	50.8 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.33	pH Units	1	B3F0109	06/01/2023	06/02/2023
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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 - Megan H16-33 O SA

PW-E04@8'

5/31/2023 10:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-08 (Soil)

## SAR by 20B Saturated Paste

SAR	0.109			SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.11	0.0857	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	102	8.57	"	"	"	"	"
Cadmium	0.113	0.0857	"	"	"	"	"
Selenium	ND	0.0857	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-E05@8'

5/31/2023 10:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-09 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3120	05/31/2023	05/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 71.7 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3121	05/31/2023	06/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 103 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-E05@8'

5/31/2023 10:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-09 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.521	0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023
Magnesium	4.10	0.823	"	"	"	"	"
Sodium	1.39	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L685675	06/05/2023	06/05/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	51.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.7 %	33-122	"	"	"
Surrogate: itrobenzene-d5	50.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.40	pH Units	1	B3F0109	06/01/2023	06/02/2023
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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 - Megan H16-33 O SA

PW-E05@8'

5/31/2023 10:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-09 (Soil)

## SAR by 20B Saturated Paste

SAR	0.912			SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.51	0.0945	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	129	9.45	"	"	"	"	"
Cadmium	0.129	0.0945	"	"	"	"	"
Selenium	0.121	0.0945	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W02@10'

5/31/2023 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-10 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3120	05/31/2023	05/31/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 71.8 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3121	05/31/2023	06/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 105 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-W02@10'

5/31/2023 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-10 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.728	0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023
Magnesium	1.65	0.823	"	"	"	"	"
Sodium	2.90	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L685675	06/05/2023	06/05/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	51.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.3 %	33-122	"	"	"
Surrogate: itrobenzene-d5	51.7 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.33	pH Units	1	B3F0109	06/01/2023	06/02/2023
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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 - Megan H16-33 O SA

PW-W02@10'

5/31/2023 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-10 (Soil)

## SAR by 20B Saturated Paste

SAR	2.66		SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.82	0.0876	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	118	8.76	"	"	"	"	"
Cadmium	0.112	0.0876	"	"	"	"	"
Selenium	ND	0.0876	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W03@10'

5/31/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-11 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E3120	05/31/2023	06/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.3 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E3121	05/31/2023	06/01/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-W03@10'

5/31/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-11 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.732	0.499	meq/L	10	[CALC]	06/01/2023	06/02/2023
Magnesium	4.18	0.823	"	"	"	"	"
Sodium	1.98	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L685675	06/05/2023	06/05/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00031	0.000286	0.00067	"	"	"	"	" J
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	52.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	51.7 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.29	pH Units	1	B3F0109	06/01/2023	06/02/2023
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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 - Megan H16-33 O SA

PW-W03@10'

5/31/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y305778-11 (Soil)

## SAR by 20B Saturated Paste

SAR	1.26			SAR	1	B3F0106	06/01/2023	06/02/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.31	0.0915	mg/kg	10	B3E3118	05/31/2023	05/31/2023
Barium	199	9.15	"	"	"	"	"
Cadmium	0.129	0.0915	"	"	"	"	"
Selenium	0.120	0.0915	"	"	"	"	"

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 - Megan H16-33 O SA

## 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 B3E3120 - EPA 3550B										
Blank (B3E3120-BLK1)					Prepared: 05/31/2023 Analyzed: 05/31/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		78.5	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 - Megan H16-33 O SA

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 B3E3120 - EPA 3550B										
LCS (B3E3120-BS1)					Prepared: 05/31/2023 Analyzed: 05/31/2023					
Diesel (C10-C28)	875	50.0	mg/kg	1000		87.5	70-130			
Residual Range Organics (C28-C40)	930	200	"	1000		93.0	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.2	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 - Megan H16-33 O SA

## 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 B3E3120 - EPA 3550B

Matrix Spike (B3E3120-MS1)		Source: Y305777-01			Prepared: 05/31/2023 Analyzed: 05/31/2023					
Diesel (C10-C28)	879	50.0	mg/kg	1000	ND	87.9	70-130			
Residual Range Organics (C28-C40)	918	200	"	1000	ND	91.8	70-130			
Surrogate: o-Terphenyl	41		"	49.8		81.4	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3E3120 - EPA 3550B										
Matrix Spike Dup (B3E3120-MSD1)		Source: Y305777-01			Prepared: 05/31/2023 Analyzed: 05/31/2023					
Diesel (C10-C28)	883	50.0	mg/kg	1000	ND	88.3	70-130	0.489	35	
Residual Range Organics (C28-C40)	933	200	"	1000	ND	93.3	70-130	1.66	35	
Surrogate: o-Terphenyl	41		"	49.8		83.4	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 - Megan H16-33 O SA

## 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 B3E3121 - EPA 5030 (soil)										
Blank (B3E3121-BLK1)					Prepared: 05/31/2023 Analyzed: 06/01/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E3121 - EPA 5030 (soil)</b>										
<b>LCS (B3E3121-BS1)</b>					Prepared: 05/31/2023 Analyzed: 06/01/2023					
1,2,4-Trimethylbenzene	0.0898	0.00200	mg/kg	0.100		89.8	70-130			
1,3,5-Trimethylbenzene	0.0944	0.00200	"	0.100		94.4	70-130			
Benzene	0.0922	0.00200	"	0.100		92.2	70-130			
Ethylbenzene	0.0900	0.00200	"	0.100		90.0	70-130			
Naphthalene	0.0962	0.00380	"	0.100		96.2	70-130			
Toluene	0.0909	0.00200	"	0.100		90.9	70-130			
o-Xylene	0.0904	0.00200	"	0.100		90.4	70-130			
m,p-Xylene	0.180	0.00400	"	0.200		89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	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 - Megan H16-33 O SA

**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 B3E3121 - EPA 5030 (soil)**

Matrix Spike (B3E3121-MS1)		Source: Y305777-01			Prepared: 05/31/2023 Analyzed: 06/01/2023					
1,2,4-Trimethylbenzene	0.0977	0.00200	mg/kg	0.100	ND	97.7	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Naphthalene	0.111	0.00380	"	0.100	ND	111	70-130			
Toluene	0.0977	0.00200	"	0.100	ND	97.7	70-130			
o-Xylene	0.0982	0.00200	"	0.100	ND	98.2	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	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 - Megan H16-33 O SA

## 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 B3E3121 - EPA 5030 (soil)										
Matrix Spike Dup (B3E3121-MSD1)			Source: Y305777-01		Prepared: 05/31/2023 Analyzed: 06/01/2023					
1,2,4-Trimethylbenzene	0.0942	0.00200	mg/kg	0.100	ND	94.2	70-130	3.63	20	
1,3,5-Trimethylbenzene	0.0996	0.00200	"	0.100	ND	99.6	70-130	2.66	20	
Benzene	0.0992	0.00200	"	0.100	ND	99.2	70-130	1.20	20	
Ethylbenzene	0.0951	0.00200	"	0.100	ND	95.1	70-130	2.00	20	
Naphthalene	0.111	0.00380	"	0.100	ND	111	70-130	0.343	20	
Toluene	0.0944	0.00200	"	0.100	ND	94.4	70-130	3.42	20	
o-Xylene	0.0957	0.00200	"	0.100	ND	95.7	70-130	2.58	20	
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.6	70-130	2.01	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	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 - Megan H16-33 O SA

## 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 B3E3118 - EPA 3050B

#### Blank (B3E3118-BLK1)

Prepared: 05/31/2023 Analyzed: 05/31/2023

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

#### LCS (B3E3118-BS1)

Prepared: 05/31/2023 Analyzed: 05/31/2023

Arsenic	0.0522	0.000100	mg/kg	0.0500	104	80-120
Barium	4.93	0.0100	"	5.00	98.5	80-120
Cadmium	0.0496	0.000100	"	0.0500	99.1	80-120
Copper	0.506	0.0100	"	0.500	101	80-120
Lead	0.0495	0.0100	"	0.0500	99.0	80-120
Nickel	0.0482	0.0100	"	0.0500	96.5	80-120
Selenium	0.0491	0.000100	"	0.0500	98.2	80-120
Silver	0.0465	0.000100	"	0.0500	92.9	80-120
Zinc	0.491	0.100	"	0.500	98.2	80-120

#### Matrix Spike (B3E3118-MS1)

Source: Y305778-01

Prepared: 05/31/2023 Analyzed: 05/31/2023

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 - Megan H16-33 O SA

**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 B3E3118 - EPA 3050B**

Matrix Spike (B3E3118-MS1)				Source: Y305778-01			Prepared: 05/31/2023 Analyzed: 05/31/2023			
Arsenic	7.99	0.0850	mg/kg	4.25	4.06	92.6	75-125			
Barium	569	8.50	"	425	145	99.8	75-125			
Cadmium	4.06	0.0850	"	4.25	0.117	92.9	75-125			
Copper	43.5	8.50	"	42.5	6.95	85.9	75-125			
Lead	12.5	8.50	"	4.25	7.19	124	75-125			
Nickel	13.4	8.50	"	4.25	9.21	97.8	75-125			
Selenium	4.02	0.0850	"	4.25	0.0941	92.4	75-125			
Silver	3.54	0.0850	"	4.25	0.0398	82.3	75-125			
Zinc	72.0	85.0	"	42.5	33.2	91.3	75-125			
Matrix Spike Dup (B3E3118-MSD1)				Source: Y305778-01			Prepared: 05/31/2023 Analyzed: 05/31/2023			
Arsenic	8.31	0.0958	mg/kg	4.79	4.06	88.8	75-125	3.88	20	
Barium	584	9.58	"	479	145	91.7	75-125	2.56	20	
Cadmium	4.36	0.0958	"	4.79	0.117	88.5	75-125	6.94	20	
Copper	45.3	9.58	"	47.9	6.95	80.1	75-125	4.16	20	
Lead	11.6	9.58	"	4.79	7.19	93.0	75-125	6.85	20	
Nickel	13.7	9.58	"	4.79	9.21	92.8	75-125	2.12	20	
Selenium	4.11	0.0958	"	4.79	0.0941	83.9	75-125	2.20	20	
Silver	3.77	0.0958	"	4.79	0.0398	77.9	75-125	6.38	20	
Zinc	72.8	95.8	"	47.9	33.2	82.6	75-125	1.07	20	

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 - Megan H16-33 O SA

## 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 B3F0106 - Saturated Paste Metals

##### Blank (B3F0106-BLK1)

Prepared: 06/01/2023 Analyzed: 06/02/2023

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

##### Duplicate (B3F0106-DUP1)

Source: Y305777-01

Prepared: 06/01/2023 Analyzed: 06/02/2023

Calcium PPM	515	10.0	mg/L	515	0.0796	50
SAR	0.00		SAR	2.06	200	200
Magnesium PPM	118	10.0	mg/L	121	2.53	50
Sodium PPM	194	10.0	"	200	3.14	50

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F0109 - Saturated Paste pH/EC

Duplicate (B3F0109-DUP1)			Source: Y305777-01		Prepared: 06/01/2023 Analyzed: 06/02/2023					
pH	7.47		pH Units		7.57			1.33	25	

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L685675 - 3550B**

MSD (L 82140-MSD-L685675)		Source: Y305778-08			Prepared: 06/05/2023 Analyzed: 06/05/2023					
2-Methylnaphthalene	0.101	0.00201	mg/Kg	0.167	<0.00194	60.4	30-130	9.2	30	
Acenaphthene	0.107	0.00067	"	0.167	<0.000304	64	30-130	8.9	30	
Chrysene	0.111	0.00067	"	0.167	<0.000624	66.4	30-130	8.4	30	
Fluoranthene	0.121	0.00067	"	0.167	<0.000394	72.4	30-130	5.9	30	
Fluorene	0.111	0.00067	"	0.167	<0.000286	66.4	30-130	7.4	30	
1-Methylnaphthalene	0.1	0.00201	"	0.167	<0.00109	59.8	30-130	8.1	30	
Naphthalene	0.0954	0.00201	"	0.167	<0.00145	57.1	30-130	7.6	30	
Pyrene	0.123	0.00067	"	0.167	<0.000643	73.6	30-130	7.5	30	
Surrogate: 2- luorobiphenyl	57.3		"	0.333	1 9	57.3	33-115			
Surrogate: itrobenzene-d5	54.9		"	0.333	1 8	54.9	29-110			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333	208	68.1	33-122			

MS (L 82140-MS-L685675)		Source: Y305778-08			Prepared: 06/05/2023 Analyzed: 06/05/2023					
1-Methylnaphthalene	0.0922	0.00201	mg/Kg	0.164	<0.00109	56.2	30-130			
2-Methylnaphthalene	0.0921	0.00201	"	0.164	<0.00194	56.1	30-130			
Fluoranthene	0.114	0.00067	"	0.164	<0.000394	69.5	30-130			
Acenaphthene	0.0978	0.00067	"	0.164	<0.000304	59.6	30-130			
Chrysene	0.102	0.00067	"	0.164	<0.000624	62.1	30-130			
Fluorene	0.103	0.00067	"	0.164	<0.000286	62.8	30-130			
Pyrene	0.114	0.00067	"	0.164	<0.000643	69.5	30-130			
Naphthalene	0.0884	0.00201	"	0.164	<0.00145	53.9	30-130			
Surrogate: 4-Terphenyl-d14	66.1		"	0.328	208	66.1	33-122			
Surrogate: itrobenzene-d5	51.8		"	0.328	1 8	51.8	29-110			
Surrogate: 2- luorobiphenyl	53.6		"	0.328	1 9	53.6	33-115			

LCS (LCS-L685675)		Prepared: 06/05/2023 Analyzed: 06/05/2023								
1-Methylnaphthalene	0.112	0.00201	mg/Kg	0.167		67	30-130			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L685675 - 3550B</b>										
<b>LCS (LCS-L685675)</b>					Prepared: 06/05/2023 Analyzed: 06/05/2023					
Pyrene	0.134	0.00067	mg/Kg	0.167		80.2	30-130			
2-Methylnaphthalene	0.113	0.00201	"	0.167		67.6	30-130			
Acenaphthene	0.119	0.00067	"	0.167		71.2	30-130			
Chrysene	0.124	0.00067	"	0.167		74.2	30-130			
Fluoranthene	0.134	0.00067	"	0.167		80.2	30-130			
Fluorene	0.126	0.00067	"	0.167		75.4	30-130			
Naphthalene	0.108	0.00201	"	0.167		64.6	30-130			
Surrogate: 4-Terphenyl-d14	78		"	0.333		78	33-122			
Surrogate: itrobenzene-d5	65.7		"	0.333		65.7	29-110			
Surrogate: 2- luorobiphenyl	68.4		"	0.333		68.4	33-115			
<b>LRB (LRB-L685675)</b>					Prepared: 06/05/2023 Analyzed: 06/05/2023					
Chrysene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			
Surrogate: 2- luorobiphenyl	59.4		"	0.333		59.4	33-115			
Surrogate: itrobenzene-d5	57.6		"	0.333		57.6	29-110			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L685421 - 3550B**

MSD (L 81499-MSD-L685421)		Source: 81499			Prepared: 06/02/2023 Analyzed: 06/05/2023					
Fluorene	0.0853	0.00067	mg/Kg	0.167	<0.000286	51	30-130	0.9	30	
1-Methylnaphthalene	0.0779	0.00201	"	0.167	<0.00109	46.6	30-130	4.4	30	
Naphthalene	0.076	0.00201	"	0.167	<0.00145	45.5	30-130	5.1	30	
Pyrene	0.0956	0.00067	"	0.167	<0.000643	57.2	30-130	2.1	30	
Fluoranthene	0.094	0.00067	"	0.167	<0.000394	56.2	30-130	1.6	30	
Chrysene	0.0876	0.00067	"	0.167	<0.000624	52.4	30-130	3.6	30	
Acenaphthene	0.082	0.00067	"	0.167	<0.000304	49.1	30-130	2	30	
2-Methylnaphthalene	0.0786	0.00201	"	0.167	<0.00194	47	30-130	4.6	30	
Surrogate: 4-Terphenyl-d14	60.6		"	0.333	200	60.6	33-122			
Surrogate: 2- luorobiphenyl	48.6		"	0.333	1	48.6	33-115			
Surrogate: itrobenzene-d5	48.6		"	0.333	1 2	48.6	29-110			

MS (L 81499-MS-L685421)		Source: 81499			Prepared: 06/02/2023 Analyzed: 06/05/2023					
Chrysene	0.0845	0.00067	mg/Kg	0.166	<0.000624	50.9	30-130			
Naphthalene	0.0722	0.00201	"	0.166	<0.00145	43.4	30-130			
Fluorene	0.0845	0.00067	"	0.166	<0.000286	50.9	30-130			
Fluoranthene	0.0925	0.00067	"	0.166	<0.000394	55.7	30-130			
Acenaphthene	0.0803	0.00067	"	0.166	<0.000304	48.3	30-130			
2-Methylnaphthalene	0.075	0.00201	"	0.166	<0.00194	45.1	30-130			
Pyrene	0.0936	0.00067	"	0.166	<0.000643	56.3	30-130			
1-Methylnaphthalene	0.0745	0.00201	"	0.166	<0.00109	44.8	30-130			
Surrogate: itrobenzene-d5	48.9		"	0.331	1 2	48.9	29-110			
Surrogate: 4-Terphenyl-d14	60.1		"	0.331	200	60.1	33-122			
Surrogate: 2- luorobiphenyl	49.5		"	0.331	1	49.5	33-115			

LCS (LCS-L685421)		Prepared: 06/02/2023 Analyzed: 06/05/2023								
1-Methylnaphthalene	0.089	0.00201	mg/Kg	0.167		53.2	30-130			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L685421 - 3550B**

**LCS (LCS-L685421)**

Prepared: 06/02/2023 Analyzed: 06/05/2023

2-Methylnaphthalene	0.0894	0.00201	mg/Kg	0.167		53.5	30-130			
Acenaphthene	0.094	0.00067	"	0.167		56.2	30-130			
Chrysene	0.1	0.00067	"	0.167		59.8	30-130			
Fluoranthene	0.11	0.00067	"	0.167		65.8	30-130			
Fluorene	0.0977	0.00067	"	0.167		58.5	30-130			
Pyrene	0.112	0.00067	"	0.167		67	30-130			
Naphthalene	0.0855	0.00201	"	0.167		51.1	30-130			

Surrogate: itrobenzene-d5	59.7		"	0.333		59.7	29-110			
Surrogate: 2- luorobiphenyl	62.4		"	0.333		62.4	33-115			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			

**LRB (LRB-L685421)**

Prepared: 06/02/2023 Analyzed: 06/05/2023

1-Methylnaphthalene	ND	0.00201	mg/Kg				-			
Naphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: itrobenzene-d5	60		"	0.333		60	29-110			
Surrogate: 4-Terphenyl-d14	76.2		"	0.333		76.2	33-122			
Surrogate: 2- luorobiphenyl	60.9		"	0.333		60.9	33-115			

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 - Megan H16-33 O SA

## Notes and Definitions

U Sample is Non-Detect.

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

J Estimated value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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



June 22, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. June 14, 2023. This project is associated with Origins project number Y306349-01.

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 - Megan H16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B12@16'	Y306349-01	Soil	June 14, 2023 16:15	06/14/2023 17:35
PW-B13@16'	Y306349-02	Soil	June 14, 2023 16:17	06/14/2023 17:35
PW-B14@16'	Y306349-03	Soil	June 14, 2023 16:19	06/14/2023 17:35

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 - Megan H16-33 O SA

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: 406349

Client: Eagle Environmental

Client Project ID: Megan H16-33 USA

Checklist Completed by: TSH

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

Date/time completed: 6/14/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 9 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6/14/23

Origins Laboratory, Inc.

[Signature]

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 - Megan H16-33 O SA

PW-B12@16'  
6/14/2023 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306349-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	64.4	25.0	mg/kg	1	B3F1421		06/14/2023	06/15/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl 84.0 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.278	0.00200	mg/kg	1	B3F1424	H	06/14/2023	06/15/2023	
1,3,5-Trimethylbenzene	0.168	0.00200	"	"	"	H	"	"	
Benzene	0.0119	0.00200	"	"	"	H	"	"	
Ethylbenzene	0.0316	0.00200	"	"	"	H	"	"	
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	0.342	0.00200	"	"	"	H	"	"	
Gasoline Range Hydrocarbons	3.54	0.200	"	"	"	H	"	"	

Surrogate: 1,2-Dichloroethane-d4 99.8 % 70-130 " " "  
Surrogate: Toluene-d8 88.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.6 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.925	0.499	meq/L	10	[CALC]		06/15/2023	06/16/2023	
Magnesium	2.13	0.823	"	"	"		"	"	
Sodium	9.65	0.435	"	"	"		"	"	

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 - Megan H16-33 O SA

PW-B12@16'  
6/14/2023 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306349-01 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	0.109	0.002	mg/kg	1	B3F1403	e	06/14/2023	06/15/2023	
2-Methylnaphthalene	0.304	0.002	"	"	"	e	"	"	
Acenaphthene	ND	0.020	"	"	"	e	"	"	U
Chrysene	ND	0.020	"	"	"	e	"	"	U
Fluoranthene	ND	0.020	"	"	"	e	"	"	U
Fluorene	0.021	0.020	"	"	"	e	"	"	
Naphthalene	0.119	0.002	"	"	"	e	"	"	
Pyrene	ND	0.020	"	"	"	e	"	"	U

Surrogate: <i>itrobenzene-d5</i>	77.0 %	60-130			"	"	"	
Surrogate: <i>2- luorobiphenyl</i>	105 %	60-130			"	"	"	
Surrogate: <i>Terphenyl-dl4</i>	99.4 %	60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.27		pH Units	1	B3F1516	H D	06/15/2023	06/16/2023	
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**SAR by 20B Saturated Paste**

SAR	7.81		SAR	1	B3F1510		06/15/2023	06/16/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.65	0.0891	mg/kg	10	B3F1507	C H	06/15/2023	06/15/2023	
Barium	406	8.91	"	"	"	C H	"	"	

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 - Megan H16-33 O SA

PW-B12@16'

6/14/2023 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306349-01 (Soil)

## Table 915 metals by EPA 6020B

Cadmium	0.163	0.0891	mg/kg	10	B3F1507	C H	06/15/2023	06/15/2023
Selenium	0.106	0.0891	"	"	"	C H	"	"

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 - Megan H16-33 O SA

PW-B13@16'  
6/14/2023 4:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306349-02 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1421		06/14/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl 79.2 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00276	0.00200	mg/kg	1	B3F1424	H	06/14/2023	06/15/2023	
1,3,5-Trimethylbenzene	0.00294	0.00200	"	"	"	H	"	"	
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	H	"	"	U
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	ND	0.00200	"	"	"	H	"	"	U
Gasoline Range Hydrocarbons	0.271	0.200	"	"	"	H	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.8 % 70-130 " " "  
Surrogate: Toluene-d8 84.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 93.6 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]		06/15/2023	06/16/2023	
Magnesium	1.02	0.823	"	"	"		"	"	
Sodium	7.49	0.435	"	"	"		"	"	

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 - Megan H16-33 O SA

PW-B13@16'  
6/14/2023 4:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306349-02 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F1403	e	06/14/2023	06/15/2023	U
2-Methylnaphthalene	0.002	0.002	"	"	"	e	"	"	
Acenaphthene	ND	0.020	"	"	"	e	"	"	U
Chrysene	ND	0.020	"	"	"	e	"	"	U
Fluoranthene	ND	0.020	"	"	"	e	"	"	U
Fluorene	ND	0.020	"	"	"	e	"	"	U
Naphthalene	ND	0.002	"	"	"	e	"	"	U
Pyrene	ND	0.020	"	"	"	e	"	"	U

Surrogate: itrobenzene-d5	89.8 %	60-130	"	"	"
Surrogate: 2- luorobiphenyl	105 %	60-130	"	"	"
Surrogate: Terphenyl-dl4	101 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.59	pH Units	1	B3F1516	H D	06/15/2023	06/16/2023
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### SAR by 20B Saturated Paste

SAR	9.11	SAR	1	B3F1510		06/15/2023	06/16/2023
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### Table 915 metals by EPA 6020B

Arsenic	5.15	0.0954	mg/kg	10	B3F1507	C H	06/15/2023	06/15/2023
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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 - Megan H16-33 O SA

PW-B13@16'

6/14/2023 4:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306349-02 (Soil)

## Table 915 metals by EPA 6020B

Barium	193	9.54	mg/kg	10	B3F1507	C H	06/15/2023	06/15/2023
Cadmium	0.115	0.0954	"	"	"	C H	"	"
Selenium	0.142	0.0954	"	"	"	C H	"	"

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 - Megan H16-33 O SA

PW-B14@16'  
6/14/2023 4:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306349-03 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	122	25.0	mg/kg	1	B3F1421		06/14/2023	06/15/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"		"	"	U

Surrogate: o-Terphenyl 82.7 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.168	0.00200	mg/kg	1	B3F1424	H	06/14/2023	06/15/2023	
1,3,5-Trimethylbenzene	0.0751	0.00200	"	"	"	H	"	"	
Benzene	0.0251	0.00200	"	"	"	H	"	"	
Ethylbenzene	0.0168	0.00200	"	"	"	H	"	"	
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	0.163	0.00200	"	"	"	H	"	"	
Gasoline Range Hydrocarbons	7.52	0.200	"	"	"	H	"	"	

Surrogate: 1,2-Dichloroethane-d4 98.5 % 70-130 " " "  
Surrogate: Toluene-d8 86.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	1.67	0.499	meq/L	10	[CALC]		06/15/2023	06/16/2023	
Magnesium	4.92	0.823	"	"	"		"	"	
Sodium	8.00	0.435	"	"	"		"	"	

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 - Megan H16-33 O SA

PW-B14@16'  
6/14/2023 4:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306349-03 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	0.045	0.002	mg/kg	1	B3F1403	e	06/14/2023	06/15/2023	
2-Methylnaphthalene	0.114	0.002	"	"	"	e	"	"	
Acenaphthene	ND	0.020	"	"	"	e	"	"	U
Chrysene	ND	0.020	"	"	"	e	"	"	U
Fluoranthene	ND	0.020	"	"	"	e	"	"	U
Fluorene	ND	0.020	"	"	"	e	"	"	U
Naphthalene	0.027	0.002	"	"	"	e	"	"	
Pyrene	ND	0.020	"	"	"	e	"	"	U

Surrogate: itrobenzene-d5	83.9 %	60-130	"	"	"
Surrogate: 2- luorobiphenyl	102 %	60-130	"	"	"
Surrogate: Terphenyl-dl4	94.2 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.35	pH Units	1	B3F1516	H D	06/15/2023	06/16/2023
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### SAR by 20B Saturated Paste

SAR	4.41	SAR	1	B3F1510		06/15/2023	06/16/2023
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### Table 915 metals by EPA 6020B

Arsenic	6.27	0.0933	mg/kg	10	B3F1507	C H	06/15/2023	06/15/2023
Barium	295	9.33	"	"	"	C H	"	"

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B14@16'

6/14/2023 4:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306349-03 (Soil)

## Table 915 metals by EPA 6020B

Cadmium	0.228	0.0933	mg/kg	10	B3F1507	C H	06/15/2023	06/15/2023
Selenium	0.195	0.0933	"	"	"	C H	"	"

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1421 - EPA 3550B										
Blank (B3F1421-BLK1)					Prepared: 06/14/2023 Analyzed: 06/14/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.6	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1421 - EPA 3550B										
LCS (B3F1421-BS1)					Prepared: 06/14/2023 Analyzed: 06/14/2023					
Diesel (C10-C28)	843	50.0	mg/kg	1000		84.3	70-130			
Residual Range Organics (C28-C40)	803	200	"	1000		80.3	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.4	50-150			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1421 - EPA 3550B

Matrix Spike (B3F1421-MS1)		Source: Y306338-01			Prepared: 06/14/2023 Analyzed: 06/14/2023					
Diesel (C10-C28)	862	50.0	mg/kg	1000	ND	86.2	70-130			
Residual Range Organics (C28-C40)	824	200	"	1000	ND	82.4	70-130			
Surrogate: o-Terphenyl	37		"	49.8		74.5	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1421 - EPA 3550B

Matrix Spike Dup (B3F1421-MSD1)		Source: Y306338-01			Prepared: 06/14/2023 Analyzed: 06/14/2023					
Diesel (C10-C28)	854	50.0	mg/kg	1000	ND	85.4	70-130	1.01	35	
Residual Range Organics (C28-C40)	828	200	"	1000	ND	82.8	70-130	0.539	35	
Surrogate: o-Terphenyl	40		"	49.8		80.1	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1424 - EPA 5030 (soil)										
Blank (B3F1424-BLK1)					Prepared: 06/14/2023 Analyzed: 06/14/2023					
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	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		87.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1424 - EPA 5030 (soil)</b>										
<b>LCS (B3F1424-BS1)</b>					Prepared: 06/14/2023 Analyzed: 06/14/2023					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
Benzene	0.0988	0.00200	"	0.100		98.8	70-130			
Ethylbenzene	0.0880	0.00200	"	0.100		88.0	70-130			
Naphthalene	0.0944	0.00380	"	0.100		94.4	70-130			
Toluene	0.0860	0.00200	"	0.100		86.0	70-130			
o-Xylene	0.0877	0.00200	"	0.100		87.7	70-130			
m,p-Xylene	0.190	0.00400	"	0.200		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		86.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.0	70-130			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1424 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3F1424-MS1)</b>		<b>Source: Y306338-01</b>			Prepared: 06/14/2023 Analyzed: 06/14/2023					
1,2,4-Trimethylbenzene	0.0950	0.00200	mg/kg	0.100	ND	95.0	70-130			
1,3,5-Trimethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130			
Benzene	0.0966	0.00200	"	0.100	ND	96.6	70-130			
Ethylbenzene	0.0812	0.00200	"	0.100	ND	81.2	70-130			
Naphthalene	0.0892	0.00380	"	0.100	0.00146	87.8	70-130			
Toluene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
o-Xylene	0.0830	0.00200	"	0.100	ND	83.0	70-130			
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		86.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.7	70-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1424 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3F1424-MSD1)</b>		<b>Source: Y306338-01</b>			Prepared: 06/14/2023 Analyzed: 06/14/2023					
1,2,4-Trimethylbenzene	0.0935	0.00200	mg/kg	0.100	ND	93.5	70-130	1.61	20	
1,3,5-Trimethylbenzene	0.0895	0.00200	"	0.100	ND	89.5	70-130	0.934	20	
Benzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	0.623	20	
Ethylbenzene	0.0811	0.00200	"	0.100	ND	81.1	70-130	0.0247	20	
Naphthalene	0.0879	0.00380	"	0.100	0.00146	86.5	70-130	1.47	20	
Toluene	0.0811	0.00200	"	0.100	ND	81.1	70-130	3.61	20	
o-Xylene	0.0828	0.00200	"	0.100	ND	82.8	70-130	0.193	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	87.8	70-130	0.262	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		85.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1507 - EPA 3050B

#### Blank (B3F1507-BLK1)

Prepared: 06/15/2023 Analyzed: 06/15/2023

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

#### LCS (B3F1507-BS1)

Prepared: 06/15/2023 Analyzed: 06/15/2023

Arsenic	0.0550	0.000100	mg/kg	0.0500	110	80-120
Barium	5.09	0.0100	"	5.00	102	80-120
Cadmium	0.0515	0.000100	"	0.0500	103	80-120
Copper	0.545	0.0100	"	0.500	109	80-120
Lead	0.0496	0.0100	"	0.0500	99.3	80-120
Nickel	0.0542	0.0100	"	0.0500	108	80-120
Selenium	0.0498	0.000100	"	0.0500	99.7	80-120
Silver	0.0521	0.000100	"	0.0500	104	80-120
Zinc	0.528	0.100	"	0.500	106	80-120

#### Matrix Spike (B3F1507-MS1)

Source: Y306349-01

Prepared: 06/15/2023 Analyzed: 06/15/2023

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1507 - EPA 3050B</b>										
<b>Matrix Spike (B3F1507-MS1)</b>		<b>Source: Y306349-01</b>			Prepared: 06/15/2023 Analyzed: 06/15/2023					
Arsenic	7.90	0.0862	mg/kg	4.31	4.65	75.3	75-125			
Barium	588	8.62	"	431	406	42.1	75-125			QM-07
Cadmium	3.91	0.0862	"	4.31	0.163	87.0	75-125			
Copper	45.3	8.62	"	43.1	9.21	83.7	75-125			
Lead	11.4	8.62	"	4.31	8.55	65.7	75-125			QM-07
Nickel	14.5	8.62	"	4.31	12.0	56.6	75-125			QM-07
Selenium	3.71	0.0862	"	4.31	0.106	83.7	75-125			
Silver	3.85	0.0862	"	4.31	0.0267	88.6	75-125			
Zinc	69.1	86.2	"	43.1	37.4	73.6	75-125			QM-07
<b>Matrix Spike Dup (B3F1507-MSD1)</b>		<b>Source: Y306349-01</b>			Prepared: 06/15/2023 Analyzed: 06/15/2023					
Arsenic	9.74	0.0968	mg/kg	4.84	4.65	105	75-125	20.9	20	QR-02
Barium	744	9.68	"	484	406	69.8	75-125	23.5	20	QM-07, QR-DUP
Cadmium	5.11	0.0968	"	4.84	0.163	102	75-125	26.6	20	QM-02
Copper	58.4	9.68	"	48.4	9.21	102	75-125	25.3	20	QM-02
Lead	13.7	9.68	"	4.84	8.55	106	75-125	18.3	20	
Nickel	17.3	9.68	"	4.84	12.0	108	75-125	17.6	20	
Selenium	5.17	0.0968	"	4.84	0.106	105	75-125	32.8	20	QR-02
Silver	4.97	0.0968	"	4.84	0.0267	102	75-125	25.5	20	QR-02
Zinc	88.9	96.8	"	48.4	37.4	106	75-125	25.0	20	QR-DUP

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**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 B3F1403 - EPA 3580**

**Blank (B3F1403-BLK1)**

Prepared: 06/14/2023 Analyzed: 06/14/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: itrobenzene-d5	170		ug/ g	200	86.9	60-130
Surrogate: 2- luorobiphenyl	200		"	200	102	60-130
Surrogate: Terphenyl-d14	210		"	200	103	60-130

**LCS (B3F1403-BS1)**

Prepared: 06/14/2023 Analyzed: 06/15/2023

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	98.1	70-130
2-Methylnaphthalene	0.196	0.002	"	0.200	98.0	70-130
Acenaphthene	0.190	0.020	"	0.200	94.8	70-130
Anthracene	0.202	0.020	"	0.200	101	70-130
Benzo (a) anthracene	0.218	0.005	"	0.200	109	70-130

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**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 B3F1403 - EPA 3580**

**LCS (B3F1403-BS1)**

Prepared: 06/14/2023 Analyzed: 06/15/2023

Benzo (a) pyrene	0.194	0.020	mg/kg	0.200		96.8	70-130
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130
Benzo (g,h,i) perylene	0.205	0.020	"	0.200		103	70-130
Benzo (k) fluoranthene	0.204	0.020	"	0.200		102	70-130
Chrysene	0.212	0.020	"	0.200		106	70-130
Dibenz (a,h) anthracene	0.210	0.020	"	0.200		105	70-130
Fluoranthene	0.205	0.020	"	0.200		103	70-130
Fluorene	0.192	0.020	"	0.200		96.0	70-130
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200		102	70-130
Naphthalene	0.197	0.002	"	0.200		98.5	70-130
Phenanthrene	0.213	0.020	"	0.200		106	70-130
Pyrene	0.227	0.020	"	0.200		113	70-130
Surrogate: itrobenzene-d5	190		ug/ g	200		94.0	60-130
Surrogate: 2- luorobiphenyl	200		"	200		101	60-130
Surrogate: Terphenyl-dl4	210		"	200		105	60-130

**Matrix Spike (B3F1403-MS1)**

**Source: Y306283-01**

Prepared: 06/14/2023 Analyzed: 06/14/2023

1-Methylnaphthalene	0.227	0.002	mg/kg	0.200	0.004	112	70-130
2-Methylnaphthalene	0.228	0.002	"	0.200	ND	114	70-130
Acenaphthene	0.209	0.020	"	0.200	0.009	99.8	70-130
Anthracene	0.213	0.020	"	0.200	0.010	101	70-130
Benzo (a) anthracene	0.211	0.005	"	0.200	0.015	98.0	70-130
Benzo (a) pyrene	0.188	0.020	"	0.200	0.002	93.4	70-130
Benzo (b) fluoranthene	0.206	0.020	"	0.200	0.003	101	70-130
Benzo (g,h,i) perylene	0.186	0.020	"	0.200	ND	93.2	70-130
Benzo (k) fluoranthene	0.209	0.020	"	0.200	ND	104	70-130
Chrysene	0.228	0.020	"	0.200	0.014	107	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 - Megan H16-33 O SA

**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 B3F1403 - EPA 3580**

Matrix Spike (B3F1403-MS1)		Source: Y306283-01			Prepared: 06/14/2023 Analyzed: 06/14/2023					
Dibenz (a,h) anthracene	0.193	0.020	mg/kg	0.200	ND	96.5	70-130			
Fluoranthene	0.212	0.020	"	0.200	0.002	105	70-130			
Fluorene	0.241	0.020	"	0.200	0.006	118	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200	ND	95.5	70-130			
Naphthalene	0.217	0.002	"	0.200	0.013	102	70-130			
Phenanthrene	0.233	0.020	"	0.200	0.011	111	70-130			
Pyrene	0.236	0.020	"	0.200	0.008	114	70-130			
Surrogate: itrobenzene-d5	150		ug/ g	200		74.6	60-130			
Surrogate: 2- luorobiphenyl	190		"	200		94.9	60-130			
Surrogate: Terphenyl-dl4	230		"	200		117	60-130			

Matrix Spike Dup (B3F1403-MSD1)		Source: Y306283-01			Prepared: 06/14/2023 Analyzed: 06/16/2023					
1-Methylnaphthalene	0.227	0.002	mg/kg	0.200	0.004	112	70-130	0.123	20	
2-Methylnaphthalene	0.218	0.002	"	0.200	ND	109	70-130	4.13	20	
Acenaphthene	0.217	0.020	"	0.200	0.009	104	70-130	3.89	20	
Anthracene	0.203	0.020	"	0.200	0.010	96.1	70-130	4.97	20	
Benzo (a) anthracene	0.219	0.005	"	0.200	0.015	102	70-130	3.82	20	
Benzo (a) pyrene	0.228	0.020	"	0.200	0.002	113	70-130	19.2	20	
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.003	106	70-130	4.29	20	
Benzo (g,h,i) perylene	0.196	0.020	"	0.200	ND	98.2	70-130	5.29	20	
Benzo (k) fluoranthene	0.225	0.020	"	0.200	ND	112	70-130	7.42	20	
Chrysene	0.237	0.020	"	0.200	0.014	111	70-130	4.13	20	
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.4	70-130	2.27	20	
Fluoranthene	0.200	0.020	"	0.200	0.002	98.9	70-130	5.59	20	
Fluorene	0.253	0.020	"	0.200	0.006	123	70-130	4.85	20	
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200	ND	96.9	70-130	1.50	20	
Naphthalene	0.228	0.002	"	0.200	0.013	108	70-130	4.96	20	

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**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 B3F1403 - EPA 3580**

Matrix Spike Dup (B3F1403-MSD1)		Source: Y306283-01			Prepared: 06/14/2023 Analyzed: 06/16/2023					
Phenanthrene	0.261	0.020	mg/kg	0.200	0.011	125	70-130	11.4	20	
Pyrene	0.268	0.020	"	0.200	0.008	130	70-130	12.7	20	
Surrogate: itrobenzene-d5	140		ug/ g	200		70.5	60-130			
Surrogate: 2- luorobiphenyl	200		"	200		101	60-130			
Surrogate: Terphenyl-dl4	220		"	200		110	60-130			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1510 - Saturated Paste Metals</b>										
<b>Blank (B3F1510-BLK1)</b>					Prepared: 06/15/2023 Analyzed: 06/16/2023					
Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B3F1510-DUP1)</b>					<b>Source: Y306338-01</b>		Prepared: 06/15/2023 Analyzed: 06/16/2023			
SAR	0.00		SAR		2.64			200	200	
Calcium PPM	63.7	10.0	mg/L		44.4			35.8	50	
Magnesium PPM	23.2	10.0	"		16.6			33.1	50	
Sodium PPM	94.6	10.0	"		81.3			15.1	50	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Megan H16-33 O SA

## 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 B3F1516 - Saturated Paste pH/EC

Duplicate (B3F1516-DUP1)			Source: Y306338-01		Prepared: 06/15/2023 Analyzed: 06/16/2023					
pH	8.15		pH Units		8.26			1.34	25	

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

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

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

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.



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une 22, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. June 15, 2023. This project is associated with Origins project number Y306387-01.

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 - Megan H16-33 O SA

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-N06@8'	Y306387-01	Soil	June 15, 2023 8:40	06/15/2023 17:50
PW-N06@13'	Y306387-02	Soil	June 15, 2023 8:42	06/15/2023 17:50
PW-N07@12'	Y306387-03	Soil	June 15, 2023 8:44	06/15/2023 17:50
PW-N08@12'	Y306387-04	Soil	June 15, 2023 8:46	06/15/2023 17:50
PW-N09@8'	Y306387-05	Soil	June 15, 2023 8:48	06/15/2023 17:50
PW-S06@8'	Y306387-06	Soil	June 15, 2023 8:50	06/15/2023 17:50
PW-S06@13'	Y306387-07	Soil	June 15, 2023 8:52	06/15/2023 17:50
PW-S07@12'	Y306387-08	Soil	June 15, 2023 8:54	06/15/2023 17:50
PW-S08@10'	Y306387-09	Soil	June 15, 2023 8:56	06/15/2023 17:50
PW-S08@14'	Y306387-10	Soil	June 15, 2023 8:58	06/15/2023 17:50
PW-S09@10'	Y306387-11	Soil	June 15, 2023 9:00	06/15/2023 17:50
PW-S09@14'	Y306387-12	Soil	June 15, 2023 9:02	06/15/2023 17:50
PW-W04@6'	Y306387-13	Soil	June 15, 2023 9:04	06/15/2023 17:50
PW-W04@13'	Y306387-14	Soil	June 15, 2023 9:06	06/15/2023 17:50

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 - Megan H16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-W05@10'	Y306387-15	Soil	June 15, 2023 9:08	06/15/2023 17:50
PW-W05@14'	Y306387-16	Soil	June 15, 2023 9:10	06/15/2023 17:50
PW-W06@13'	Y306387-17	Soil	June 15, 2023 9:12	06/15/2023 17:50
PW-W07@6'	Y306387-18	Soil	June 15, 2023 9:14	06/15/2023 17:50
PW-W07@13'	Y306387-19	Soil	June 15, 2023 9:16	06/15/2023 17:50
PW-B15@16'	Y306387-20	Soil	June 15, 2023 9:18	06/15/2023 17:50
PW-B16@16'	Y306387-21	Soil	June 15, 2023 9:20	06/15/2023 17:50
PW-B17@10'	Y306387-22	Soil	June 15, 2023 9:22	06/15/2023 17:50
PW-BG05@16'	Y306387-23	Soil	June 15, 2023 9:24	06/15/2023 17:50
PW-BG06@16'	Y306387-24	Soil	June 15, 2023 9:26	06/15/2023 17:50

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 - Megan H16-33 O SA

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil		
PW-S09E10'	6/15/23	0900	3	X					X		BTEX, W, TMS, TPH, pH, SAR, VOA, W, C, Selenium, 1,2-Meth, PCP, DDT, Fluoranthene, Pyrene, Benzo
PW-S09E14'		0902									
PW-W04E6'		0904									
PW-W04E13'		0906									
PW-W05E10'		0908									
PW-W05E14'		0910									
PW-W06E13'		0912									
PW-W07E6'		0914									
PW-W07E13'		0916									
PW-B15E16'		0918									
Relinquished By: <u>Chris Babin</u>	Date: <u>6/15/23</u>	Time: <u>1750</u>	Received By: <u>[Signature]</u>	Date: <u>6/15/23</u>	Time: <u>1750</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 72 Hr					
Temp Received: <u>5</u>	Date Results Needed										

Client: Eagle Environmental (oxy)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: dcoloccia@eagle-enviro.com  
Project Manager: D. Coloccia  
Project Name: Megan H 16-33 OSA  
Project Number: —  
Samples Collected By: CS

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 - Megan H16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 1300 387

Client: Eagle Environmental

Client Project ID: Megan H16-33 O SA

Checklist Completed by: WM

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

Date/time completed: 6/15/23

Airbill #: N/A

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

Cooler Number/Temperature: 115 °C      °C      °C (Describe)      °C

Thermometer ID: 1004

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

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

Reviewed by (Project Manager) WM

Date/Time Reviewed 6/15/23

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-N06@8'

6/15/2023 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.0 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.3 % 70-130 " " "  
Surrogate: Toluene-d8 96.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 85.6 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N06@8'

6/15/2023 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.903	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	2.72	0.823	"	"	"	"	"
Sodium	0.749	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	43.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	48.3 %	33-122	"	"	"
Surrogate: itrobenzene-d5	37.9 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.48	pH Units	1	B3F1611	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-N06@8'

6/15/2023 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-01 (Soil)

## SAR by 20B Saturated Paste

SAR	0.557			SAR	1	B3F1608	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.59	0.0921	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	68.7	9.21	"	"	"	"	"
Cadmium	0.199	0.0921	"	"	"	"	"
Selenium	ND	0.0921	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N06@13'

6/15/2023 8:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-02 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	65.4 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.1 %	70-130	"	"	"
Surrogate: Toluene-d8	96.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	84.5 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N06@13'

6/15/2023 8:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306387-02 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.633	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	1.88	0.823	"	"	"	"	"
Sodium	7.71	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.000443	0.000394	0.00067	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	49.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	45 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.49	pH Units	1	B3F1611	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-N06@13'

6/15/2023 8:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-02 (Soil)

## SAR by 20B Saturated Paste

SAR	6.88		SAR	1	B3F1608	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	6.10	0.0922	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	198	9.22	"	"	"	"	"
Cadmium	0.166	0.0922	"	"	"	"	"
Selenium	0.142	0.0922	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N07@12'

6/15/2023 8:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-03 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 71.0 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00224	0.00200	mg/kg	1	B3F1534	06/15/2023	06/15/2023	
1,3,5-Trimethylbenzene	0.0153	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	2.75	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 93.6 % 70-130 " " "  
Surrogate: Toluene-d8 96.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 88.9 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N07@12'

6/15/2023 8:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-03 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.573	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	1.56	0.823	"	"	"	"	"
Sodium	6.06	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.000464	0.000394	0.00067	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	54.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	46.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.57	pH Units	1	B3F1611	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-N07@12'

6/15/2023 8:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-03 (Soil)

## SAR by 20B Saturated Paste

SAR	5.86		SAR	1	B3F1608	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.22	0.0932	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	305	9.32	"	"	"	"	"
Cadmium	0.233	0.0932	"	"	"	"	"
Selenium	0.184	0.0932	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N08@12'

6/15/2023 8:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-04 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	67.4 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.875	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130	"	"	"
Surrogate: Toluene-d8	94.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	85.4 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N08@12'

6/15/2023 8:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306387-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.07		0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023	
Magnesium	2.56		0.823	"	"	"	"	"	
Sodium	5.94		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	0.000446	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.000927	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.000655	0.000643	0.00067	"	"	"	"	"	J

Surrogate: 2- luorobiphenyl	58.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	52 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.49	pH Units	1	B3F1611	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-N08@12'

6/15/2023 8:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-04 (Soil)

## SAR by 20B Saturated Paste

SAR	4.41		SAR	1	B3F1608	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.35	0.0886	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	248	8.86	"	"	"	"	"
Cadmium	0.192	0.0886	"	"	"	"	"
Selenium	0.156	0.0886	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N09@8'

6/15/2023 8:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-05 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.5 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.6 %	70-130	"	"	"
Surrogate: Toluene-d8	95.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	84.5 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N09@8'

6/15/2023 8:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306387-05 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.773	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	2.22	0.823	"	"	"	"	"
Sodium	2.22	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	0.00204	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.00422	0.000394	0.00067	"	"	"	"	"
Fluorene	0.000328	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	0.00314	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	54.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62 %	33-122	"	"	"
Surrogate: itrobenzene-d5	48.8 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.52	pH Units	1	B3F1611	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-N09@8'

6/15/2023 8:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-05 (Soil)

## SAR by 20B Saturated Paste

SAR	1.82			SAR	1	B3F1608	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.15	0.0900	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	147	9.00	"	"	"	"	"
Cadmium	0.145	0.0900	"	"	"	"	"
Selenium	0.0927	0.0900	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S06@8'

6/15/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-06 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.5 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 90.9 % 70-130 " " "  
Surrogate: Toluene-d8 95.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 84.0 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S06@8'

6/15/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-06 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.43	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	1.64	0.823	"	"	"	"	"
Sodium	0.859	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	58.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	49.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.46	pH Units	1	B3F1611	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-S06@8'

6/15/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-06 (Soil)

## SAR by 20B Saturated Paste

SAR	0.694		SAR	1	B3F1608	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.30	0.0850	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	116	8.50	"	"	"	"	"
Cadmium	0.128	0.0850	"	"	"	"	"
Selenium	0.139	0.0850	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S06@13'

6/15/2023 8:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-07 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.0 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.8 % 70-130 " " "  
Surrogate: Toluene-d8 94.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 83.0 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S06@13'

6/15/2023 8:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306387-07 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	1.70	0.823	"	"	"	"	"
Sodium	6.78	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	42.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	39.7 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.79	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-S06@13'

6/15/2023 8:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-07 (Soil)

## SAR by 20B Saturated Paste

SAR	6.91			SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.44	0.0982	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	230	9.82	"	"	"	"	"
Cadmium	0.188	0.0982	"	"	"	"	"
Selenium	0.102	0.0982	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S07@12'

6/15/2023 8:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-08 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 65.3 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.9 % 70-130 " " "  
Surrogate: Toluene-d8 94.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 83.6 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S07@12'

6/15/2023 8:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306387-08 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	1.79	0.823	"	"	"	"	"
Sodium	6.97	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	48.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	45 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.73	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-S07@12'

6/15/2023 8:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-08 (Soil)

## SAR by 20B Saturated Paste

SAR	6.93		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.61	0.0966	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	145	9.66	"	"	"	"	"
Cadmium	0.186	0.0966	"	"	"	"	"
Selenium	0.120	0.0966	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S08@10'

6/15/2023 8:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306387-09 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 65.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 90.9 % 70-130 " " "  
Surrogate: Toluene-d8 95.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 84.2 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S08@10'

6/15/2023 8:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-09 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.701	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	2.92	0.823	"	"	"	"	"
Sodium	0.941	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.000955	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	54.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.7 %	33-122	"	"	"
Surrogate: itrobenzene-d5	47.7 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.47	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-S08@10'

6/15/2023 8:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-09 (Soil)

## SAR by 20B Saturated Paste

SAR	0.699		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.37	0.0858	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	75.7	8.58	"	"	"	"	"
Cadmium	0.0987	0.0858	"	"	"	"	"
Selenium	ND	0.0858	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S08@14'

6/15/2023 8:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306387-10 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 72.2 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 90.0 % 70-130 " " "  
Surrogate: Toluene-d8 95.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 84.2 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S08@14'

6/15/2023 8:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-10 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.925	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	3.45	0.823	"	"	"	"	"
Sodium	2.60	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	0.000804	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.00285	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00046	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	0.00223	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	56.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.3 %	33-122	"	"	"
Surrogate: itrobenzene-d5	50.3 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.43	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-S08@14'

6/15/2023 8:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-10 (Soil)

## SAR by 20B Saturated Paste

SAR	1.76		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.53	0.0892	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	407	8.92	"	"	"	"	"
Cadmium	0.174	0.0892	"	"	"	"	"
Selenium	ND	0.0892	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S09@10'

6/15/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306387-11 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.5 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.9 % 70-130 " " "  
Surrogate: Toluene-d8 94.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 83.4 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S09@10'

6/15/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-11 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.83	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	2.00	0.823	"	"	"	"	"
Sodium	1.07	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	50.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56 %	33-122	"	"	"
Surrogate: itrobenzene-d5	43.7 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.34	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-S09@10'

6/15/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-11 (Soil)

## SAR by 20B Saturated Paste

SAR	0.771		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.01	0.0994	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	128	9.94	"	"	"	"	"
Cadmium	0.132	0.0994	"	"	"	"	"
Selenium	0.130	0.0994	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S09@14'

6/15/2023 9:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306387-12 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.8 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.6 % 70-130 " " "  
Surrogate: Toluene-d8 95.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 83.0 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S09@14'

6/15/2023 9:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306387-12 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.736	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	4.30	0.823	"	"	"	"	"
Sodium	1.91	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	52 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	46.2 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.43	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-S09@14'

6/15/2023 9:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-12 (Soil)

## SAR by 20B Saturated Paste

SAR	1.21		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.15	0.0978	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	218	9.78	"	"	"	"	"
Cadmium	0.188	0.0978	"	"	"	"	"
Selenium	ND	0.0978	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W04@6'  
6/15/2023 9:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-13 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.2 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 89.6 % 70-130 " " "  
Surrogate: Toluene-d8 96.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 82.4 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W04@6'  
6/15/2023 9:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-13 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.69	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	3.48	0.823	"	"	"	"	"
Sodium	0.770	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	50.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.1 %	33-122	"	"	"
Surrogate: itrobenzene-d5	43.8 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.33	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-W04@6'  
6/15/2023 9:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-13 (Soil)

## SAR by 20B Saturated Paste

SAR	0.479		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	6.97	0.0888	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	138	8.88	"	"	"	"	"
Cadmium	0.147	0.0888	"	"	"	"	"
Selenium	0.0888	0.0888	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W04@13'

6/15/2023 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-14 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.0 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.119	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	14.2	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 90.7 % 70-130 " " "  
Surrogate: Toluene-d8 99.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W04@13'

6/15/2023 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-14 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.875	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	4.35	0.823	"	"	"	"	"
Sodium	2.52	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00481	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	0.0047	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00286	0.000304	0.00067	"	"	"	"	"
Chrysene	0.000845	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00782	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	0.000764	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	55.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	48 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.37	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-W04@13'

6/15/2023 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-14 (Soil)

## SAR by 20B Saturated Paste

SAR	1.56			SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.91	0.0984	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	249	9.84	"	"	"	"	"
Cadmium	0.179	0.0984	"	"	"	"	"
Selenium	ND	0.0984	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W05@10'

6/15/2023 9:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-15 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.0 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.394	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 92.0 % 70-130 " " "  
Surrogate: Toluene-d8 95.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 83.6 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-W05@10'

6/15/2023 9:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-15 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.32	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	4.82	0.823	"	"	"	"	"
Sodium	0.768	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	57.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	48.9 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.37	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-W05@10'

6/15/2023 9:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-15 (Soil)

## SAR by 20B Saturated Paste

SAR	0.438		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.58	0.0873	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	276	8.73	"	"	"	"	"
Cadmium	0.151	0.0873	"	"	"	"	"
Selenium	ND	0.0873	"	"	"	"	"

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 - Megan H16-33 O SA

PW-W05@14'

6/15/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-16 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.6 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.741	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.7 %	70-130	"	"	"
Surrogate: Toluene-d8	96.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.5 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W05@14'

6/15/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-16 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.03	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	7.37	0.823	"	"	"	"	"
Sodium	1.48	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688580	06/20/2023	06/20/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	46.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	48.9 %	33-122	"	"	"
Surrogate: itrobenzene-d5	40.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.41	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-W05@14'

6/15/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-16 (Soil)

## SAR by 20B Saturated Paste

SAR	0.721		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.81	0.0845	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	193	8.45	"	"	"	"	"
Cadmium	0.178	0.0845	"	"	"	"	"
Selenium	0.101	0.0845	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W06@13'

6/15/2023 9:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-17 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.1 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.7 %	70-130	"	"	"
Surrogate: Toluene-d8	95.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	82.9 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W06@13'

6/15/2023 9:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-17 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.41	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	2.69	0.823	"	"	"	"	"
Sodium	5.74	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688684	06/20/2023	06/21/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	56.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	65.6 %	33-122	"	"	"
Surrogate: itrobenzene-d5	58.3 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.42	pH Units	1	B3F1612	06/16/2023	06/17/2023
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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W06@13'

6/15/2023 9:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-17 (Soil)

## SAR by 20B Saturated Paste

SAR	4.01		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.92	0.0958	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	168	9.58	"	"	"	"	"
Cadmium	0.168	0.0958	"	"	"	"	"
Selenium	0.135	0.0958	"	"	"	"	"

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W07@6'  
6/15/2023 9:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-18 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.2 %	70-130	"	"	"
Surrogate: Toluene-d8	95.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	84.6 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W07@6'  
6/15/2023 9:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-18 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.73	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	7.99	0.823	"	"	"	"	"
Sodium	1.68	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688684	06/20/2023	06/21/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	57 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.3 %	33-122	"	"	"
Surrogate: itrobenzene-d5	57 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.38	pH Units	1	B3F1612	06/16/2023	06/17/2023
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8000 W 44th Ave  
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W07@6'  
6/15/2023 9:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-18 (Soil)

### SAR by 20B Saturated Paste

SAR	0.764			SAR	1	B3F1609	06/16/2023	06/19/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.54	0.0995	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	137	9.95	"	"	"	"	"
Cadmium	0.148	0.0995	"	"	"	"	"
Selenium	0.305	0.0995	"	"	"	"	"

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W07@13'

6/15/2023 9:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-19 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1506	06/15/2023	06/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.2 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1534	06/15/2023	06/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 92.9 % 70-130 " " "  
Surrogate: Toluene-d8 94.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 83.7 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W07@13'

6/15/2023 9:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-19 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.586	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	3.59	0.823	"	"	"	"	"
Sodium	5.06	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688684	06/20/2023	06/21/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	53.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.3 %	33-122	"	"	"
Surrogate: itrobenzene-d5	52.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.50	pH Units	1	B3F1612	06/16/2023	06/17/2023
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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-W07@13'

6/15/2023 9:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-19 (Soil)

## SAR by 20B Saturated Paste

SAR	3.50		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.56	0.0949	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	196	9.49	"	"	"	"	"
Cadmium	0.174	0.0949	"	"	"	"	"
Selenium	ND	0.0949	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B15@16'

6/15/2023 9:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-20 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1529	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.3 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1535	06/15/2023	06/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "  
Surrogate: Toluene-d8 94.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.5 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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8000 W 44th Ave  
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B15@16'

6/15/2023 9:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-20 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	1.48	0.823	"	"	"	"	"
Sodium	5.45	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688684	06/20/2023	06/21/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.000486	0.000394	0.00067	"	"	"	"	" J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	0.00221	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	52.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62 %	33-122	"	"	"
Surrogate: itrobenzene-d5	51.8 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.51	pH Units	1	B3F1612	06/16/2023	06/17/2023
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8000 W 44th Ave  
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B15@16'

6/15/2023 9:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-20 (Soil)

## SAR by 20B Saturated Paste

SAR	5.49		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.35	0.0980	mg/kg	10	B3F1532	06/15/2023	06/16/2023
Barium	149	9.80	"	"	"	"	"
Cadmium	0.172	0.0980	"	"	"	"	"
Selenium	0.104	0.0980	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B16@16'  
6/15/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-21 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1529	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.2 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1535	06/15/2023	06/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B16@16'

6/15/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-21 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.65	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	4.01	0.823	"	"	"	"	"
Sodium	6.56	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00126	0.00109	0.00201	mg/Kg	1	L688684	06/20/2023	06/21/2023	J
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2- luorobiphenyl	54.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62 %	33-122	"	"	"
Surrogate: itrobenzene-d5	56.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.37	pH Units	1	B3F1612	06/16/2023	06/17/2023
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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B16@16'

6/15/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-21 (Soil)

## SAR by 20B Saturated Paste

SAR	3.90		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.44	0.0841	mg/kg	10	B3F1531	06/15/2023	06/15/2023
Barium	219	8.41	"	"	"	"	"
Cadmium	0.180	0.0841	"	"	"	"	"
Selenium	0.107	0.0841	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B17@10'

6/15/2023 9:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-22 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1529	06/15/2023	06/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.0 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1535	06/15/2023	06/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.9 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B17@10'

6/15/2023 9:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-22 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.903	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	1.73	0.823	"	"	"	"	"
Sodium	2.43	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L688684	06/20/2023	06/21/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	54.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	51.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	55.8 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.46	pH Units	1	B3F1612	06/16/2023	06/17/2023
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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 - Megan H16-33 O SA

PW-B17@10'

6/15/2023 9:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-22 (Soil)

## SAR by 20B Saturated Paste

SAR	2.12		SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.02	0.0941	mg/kg	10	B3F1531	06/15/2023	06/15/2023
Barium	153	9.41	"	"	"	"	"
Cadmium	0.132	0.0941	"	"	"	"	"
Selenium	ND	0.0941	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-BG05@16'  
6/15/2023 9:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-23 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.831	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	2.64	0.823	"	"	"	"	"
Sodium	9.01	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.59	pH Units	1	B3F1612	06/16/2023	06/17/2023
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## SAR by 20B Saturated Paste

SAR	6.84	SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.84	0.0910	mg/kg	10	B3F1531	06/15/2023	06/15/2023
Barium	266	9.10	"	"	"	"	"
Cadmium	0.138	0.0910	"	"	"	"	"
Selenium	ND	0.0910	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-BG06@16'  
6/15/2023 9:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306387-24 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.525	0.499	meq/L	10	[CALC]	06/16/2023	06/19/2023
Magnesium	3.62	0.823	"	"	"	"	"
Sodium	8.79	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.67	pH Units	1	B3F1612	06/16/2023	06/17/2023
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## SAR by 20B Saturated Paste

SAR	6.11	SAR	1	B3F1609	06/16/2023	06/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.61	0.0911	mg/kg	10	B3F1531	06/15/2023	06/15/2023
Barium	147	9.11	"	"	"	"	"
Cadmium	0.174	0.0911	"	"	"	"	"
Selenium	0.120	0.0911	"	"	"	"	"

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1506 - EPA 3550B										
Blank (B3F1506-BLK1)					Prepared: 06/15/2023 Analyzed: 06/15/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		73.0	50-150			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1506 - EPA 3550B

### LCS (B3F1506-BS1)

Prepared: 06/15/2023 Analyzed: 06/15/2023

Diesel (C10-C28)	797	50.0	mg/kg	1000		79.7	70-130			
Residual Range Organics (C28-C40)	901	200	"	1000		90.1	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.5	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1506 - EPA 3550B

Matrix Spike (B3F1506-MS1)		Source: Y306370-01			Prepared: 06/15/2023 Analyzed: 06/15/2023					
Diesel (C10-C28)	828	50.0	mg/kg	1000	ND	82.8	70-130			
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.5	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1506 - EPA 3550B										
Matrix Spike Dup (B3F1506-MSD1)		Source: Y306370-01			Prepared: 06/15/2023 Analyzed: 06/15/2023					
Diesel (C10-C28)	800	50.0	mg/kg	1000	ND	80.0	70-130	3.43	35	
Residual Range Organics (C28-C40)	890	200	"	1000	ND	89.0	70-130	3.46	35	
Surrogate: o-Terphenyl	41		"	49.8		83.0	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1529 - EPA 3550B										
Blank (B3F1529-BLK1)					Prepared: 06/15/2023 Analyzed: 06/15/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.8	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 - Megan H16-33 O SA

## 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 B3F1529 - EPA 3550B

#### LCS (B3F1529-BS1)

Prepared: 06/15/2023 Analyzed: 06/15/2023

Diesel (C10-C28)	824	50.0	mg/kg	1000		82.4	70-130			
Residual Range Organics (C28-C40)	878	200	"	1000		87.8	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1529 - EPA 3550B

Matrix Spike (B3F1529-MS1)		Source: Y306383-01			Prepared: 06/15/2023 Analyzed: 06/15/2023					
Diesel (C10-C28)	831	50.0	mg/kg	1000	ND	83.1	70-130			
Residual Range Organics (C28-C40)	861	200	"	1000	ND	86.1	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.0	50-150			

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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1529 - EPA 3550B										
Matrix Spike Dup (B3F1529-MSD1)		Source: Y306383-01			Prepared: 06/15/2023 Analyzed: 06/15/2023					
Diesel (C10-C28)	843	50.0	mg/kg	1000	ND	84.3	70-130	1.39	35	
Residual Range Organics (C28-C40)	892	200	"	1000	ND	89.2	70-130	3.48	35	
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1534 - EPA 5030 (soil)</b>										
<b>Blank (B3F1534-BLK1)</b>					Prepared: 06/15/2023 Analyzed: 06/15/2023					
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	0.11		"	0.125		87.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.2	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 - Megan H16-33 O SA

## 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 B3F1534 - EPA 5030 (soil)										
LCS (B3F1534-BS1)					Prepared: 06/15/2023 Analyzed: 06/15/2023					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.0986	0.00200	"	0.100		98.6	70-130			
Naphthalene	0.0909	0.00380	"	0.100		90.9	70-130			
Toluene	0.0956	0.00200	"	0.100		95.6	70-130			
o-Xylene	0.0988	0.00200	"	0.100		98.8	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.4	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 - Megan H16-33 O SA

## 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 B3F1534 - EPA 5030 (soil)										
Matrix Spike (B3F1534-MS1)		Source: Y306370-01			Prepared: 06/15/2023 Analyzed: 06/15/2023					
1,2,4-Trimethylbenzene	0.221	0.00200	mg/kg	0.200	0.000780	110	70-130			
1,3,5-Trimethylbenzene	0.221	0.00200	"	0.200	ND	111	70-130			
Benzene	0.221	0.00200	"	0.200	ND	111	70-130			
Ethylbenzene	0.209	0.00200	"	0.200	ND	104	70-130			
Naphthalene	0.204	0.00380	"	0.200	0.00284	101	70-130			
Toluene	0.202	0.00200	"	0.200	ND	101	70-130			
o-Xylene	0.209	0.00200	"	0.200	ND	105	70-130			
m,p-Xylene	0.433	0.00400	"	0.400	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.3	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1534 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3F1534-MSD1)</b>	<b>Source: Y306370-01</b>				Prepared: 06/15/2023 Analyzed: 06/15/2023					
1,2,4-Trimethylbenzene	0.210	0.00200	mg/kg	0.200	0.000780	105	70-130	5.33	20	
1,3,5-Trimethylbenzene	0.207	0.00200	"	0.200	ND	103	70-130	6.86	20	
Benzene	0.218	0.00200	"	0.200	ND	109	70-130	1.47	20	
Ethylbenzene	0.205	0.00200	"	0.200	ND	102	70-130	1.94	20	
Naphthalene	0.199	0.00380	"	0.200	0.00284	98.0	70-130	2.61	20	
Toluene	0.197	0.00200	"	0.200	ND	98.5	70-130	2.32	20	
o-Xylene	0.203	0.00200	"	0.200	ND	101	70-130	3.02	20	
m,p-Xylene	0.423	0.00400	"	0.400	ND	106	70-130	2.30	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	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 - Megan H16-33 O SA

## 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 B3F1535 - EPA 5030 (soil)										
Blank (B3F1535-BLK1)					Prepared: 06/15/2023 Analyzed: 06/15/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.9	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 - Megan H16-33 O SA

## 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 B3F1535 - EPA 5030 (soil)										
LCS (B3F1535-BS1)					Prepared: 06/15/2023 Analyzed: 06/15/2023					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.0897	0.00200	"	0.100		89.7	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.0979	0.00200	"	0.100		97.9	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.211	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1535 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3F1535-MS1)</b>		<b>Source: Y306383-01</b>			Prepared: 06/15/2023 Analyzed: 06/15/2023					
1,2,4-Trimethylbenzene	0.0848	0.00200	mg/kg	0.100	ND	84.8	70-130			
1,3,5-Trimethylbenzene	0.0868	0.00200	"	0.100	ND	86.8	70-130			
Benzene	0.0751	0.00200	"	0.100	ND	75.1	70-130			
Ethylbenzene	0.0908	0.00200	"	0.100	ND	90.8	70-130			
Naphthalene	0.0865	0.00380	"	0.100	ND	86.5	70-130			
Toluene	0.0856	0.00200	"	0.100	ND	85.6	70-130			
o-Xylene	0.0898	0.00200	"	0.100	ND	89.8	70-130			
m,p-Xylene	0.180	0.00400	"	0.200	ND	89.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1535 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3F1535-MSD1)</b>					<b>Source: Y306383-01</b>					
										Prepared: 06/15/2023 Analyzed: 06/15/2023
1,2,4-Trimethylbenzene	0.0712	0.00200	mg/kg	0.100	ND	71.2	70-130	17.5	20	
1,3,5-Trimethylbenzene	0.0731	0.00200	"	0.100	ND	73.1	70-130	17.1	20	
Benzene	0.0696	0.00200	"	0.100	ND	69.6	70-130	7.52	20	QM-07
Ethylbenzene	0.0764	0.00200	"	0.100	ND	76.4	70-130	17.2	20	
Naphthalene	0.0798	0.00380	"	0.100	ND	79.8	70-130	8.11	20	
Toluene	0.0799	0.00200	"	0.100	ND	79.9	70-130	6.89	20	
o-Xylene	0.0765	0.00200	"	0.100	ND	76.5	70-130	15.9	20	
m,p-Xylene	0.152	0.00400	"	0.200	ND	75.9	70-130	16.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1531 - EPA 3050B

#### Blank (B3F1531-BLK1)

Prepared: 06/15/2023 Analyzed: 06/15/2023

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

#### LCS (B3F1531-BS1)

Prepared: 06/15/2023 Analyzed: 06/15/2023

Arsenic	0.0528	0.000100	mg/kg	0.0500	106	80-120
Barium	5.27	0.0100	"	5.00	105	80-120
Cadmium	0.0508	0.000100	"	0.0500	102	80-120
Copper	0.522	0.0100	"	0.500	104	80-120
Lead	0.0492	0.0100	"	0.0500	98.5	80-120
Nickel	0.0525	0.0100	"	0.0500	105	80-120
Selenium	0.0509	0.000100	"	0.0500	102	80-120
Silver	0.0510	0.000100	"	0.0500	102	80-120
Zinc	0.563	0.100	"	0.500	113	80-120

#### Matrix Spike (B3F1531-MS1)

Source: Y306387-21

Prepared: 06/15/2023 Analyzed: 06/15/2023

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Project: KMG - Megan H16-33 O SA

**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 B3F1531 - EPA 3050B**

Matrix Spike (B3F1531-MS1)		Source: Y306387-21			Prepared: 06/15/2023 Analyzed: 06/15/2023					
Arsenic	8.68	0.0924	mg/kg	4.62	5.44	70.1	75-125			QM-07
Barium	677	9.24	"	462	219	99.0	75-125			
Cadmium	4.53	0.0924	"	4.62	0.180	94.1	75-125			
Copper	45.6	9.24	"	46.2	8.42	80.4	75-125			
Lead	11.8	9.24	"	4.62	7.96	82.4	75-125			
Nickel	13.0	9.24	"	4.62	10.9	45.9	75-125			QM-07
Selenium	4.35	0.0924	"	4.62	0.107	91.7	75-125			
Silver	4.32	0.0924	"	4.62	0.0345	92.7	75-125			
Zinc	79.8	92.4	"	46.2	36.7	93.3	75-125			

Matrix Spike Dup (B3F1531-MSD1)		Source: Y306387-21			Prepared: 06/15/2023 Analyzed: 06/15/2023					
Arsenic	8.56	0.0996	mg/kg	4.98	5.44	62.7	75-125	1.37	20	QM-07
Barium	678	9.96	"	498	219	92.0	75-125	0.157	20	
Cadmium	5.00	0.0996	"	4.98	0.180	96.6	75-125	9.79	20	
Copper	49.9	9.96	"	49.8	8.42	83.3	75-125	9.18	20	
Lead	11.2	9.96	"	4.98	7.96	65.2	75-125	4.88	20	QM-07
Nickel	12.7	9.96	"	4.98	10.9	35.4	75-125	2.80	20	QM-07
Selenium	4.74	0.0996	"	4.98	0.107	93.0	75-125	8.66	20	
Silver	4.83	0.0996	"	4.98	0.0345	96.3	75-125	11.3	20	
Zinc	76.8	99.6	"	49.8	36.7	80.5	75-125	3.85	20	

**Batch B3F1532 - EPA 3050B**

Blank (B3F1532-BLK1)		Prepared: 06/15/2023 Analyzed: 06/16/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1532 - EPA 3050B

##### Blank (B3F1532-BLK1)

Prepared: 06/15/2023 Analyzed: 06/16/2023

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

##### LCS (B3F1532-BS1)

Prepared: 06/15/2023 Analyzed: 06/16/2023

Arsenic	0.0510	0.000100	mg/kg	0.0500	102	80-120
Barium	4.98	0.0100	"	5.00	99.6	80-120
Cadmium	0.0501	0.000100	"	0.0500	100	80-120
Copper	0.536	0.0100	"	0.500	107	80-120
Lead	0.0480	0.0100	"	0.0500	96.0	80-120
Nickel	0.0539	0.0100	"	0.0500	108	80-120
Selenium	0.0500	0.000100	"	0.0500	100	80-120
Silver	0.0483	0.000100	"	0.0500	96.6	80-120
Zinc	0.518	0.100	"	0.500	104	80-120

##### Matrix Spike (B3F1532-MS1)

Source: Y306387-01

Prepared: 06/15/2023 Analyzed: 06/16/2023

Arsenic	10.7	0.0948	mg/kg	4.74	3.59	150	75-125	QM-07
Barium	672	9.48	"	474	68.7	127	75-125	QM-07
Cadmium	6.03	0.0948	"	4.74	0.199	123	75-125	
Copper	64.3	9.48	"	47.4	5.68	124	75-125	
Lead	11.9	9.48	"	4.74	4.89	147	75-125	
Nickel	12.6	9.48	"	4.74	5.59	148	75-125	
Selenium	5.00	0.0948	"	4.74	0.0700	104	75-125	
Silver	5.74	0.0948	"	4.74	0.152	118	75-125	

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F1532 - EPA 3050B										
<b>Matrix Spike (B3F1532-MS1)</b>		<b>Source: Y306387-01</b>			Prepared: 06/15/2023 Analyzed: 06/16/2023					
Zinc	90.0	94.8	mg/kg	47.4	25.2	137	75-125			
<b>Matrix Spike Dup (B3F1532-MSD1)</b>		<b>Source: Y306387-01</b>			Prepared: 06/15/2023 Analyzed: 06/16/2023					
Arsenic	7.14	0.0890	mg/kg	4.45	3.59	79.8	75-125	40.0	20	QR-DUP
Barium	421	8.90	"	445	68.7	79.1	75-125	45.9	20	QR-DUP
Cadmium	3.74	0.0890	"	4.45	0.199	79.5	75-125	47.0	20	QR-02
Copper	40.9	8.90	"	44.5	5.68	79.1	75-125	44.6	20	
Lead	8.02	8.90	"	4.45	4.89	70.4	75-125	38.8	20	
Nickel	9.10	8.90	"	4.45	5.59	79.0	75-125	32.4	20	
Selenium	3.61	0.0890	"	4.45	0.0700	79.6	75-125	32.3	20	QR-02
Silver	3.51	0.0890	"	4.45	0.152	75.5	75-125	48.3	20	
Zinc	61.9	89.0	"	44.5	25.2	82.5	75-125	37.1	20	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F1608 - Saturated Paste Metals

##### Blank (B3F1608-BLK1)

Prepared: 06/16/2023 Analyzed: 06/19/2023

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

##### Duplicate (B3F1608-DUP1)

Source: Y306366-01

Prepared: 06/16/2023 Analyzed: 06/19/2023

SAR	0.00		SAR	0.102		200	200
Calcium PPM	7.07	10.0	mg/L	2.51		95.2	50 QR-05
Magnesium PPM	9.43	10.0	"	1.97		131	50 QR-05
Sodium PPM	0.960	10.0	"	0.890		7.57	50

#### Batch B3F1609 - Saturated Paste Metals

##### Blank (B3F1609-BLK1)

Prepared: 06/16/2023 Analyzed: 06/19/2023

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

##### Duplicate (B3F1609-DUP1)

Source: Y306387-07

Prepared: 06/16/2023 Analyzed: 06/19/2023

Calcium PPM	4.32	10.0	mg/L	4.46		3.19	50
SAR	0.00		SAR	6.91		200	200
Magnesium PPM	20.5	10.0	mg/L	20.7		0.970	50
Sodium PPM	151	10.0	"	156		3.43	50

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1611 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3F1611-DUP1)</b>		<b>Source: Y306366-01</b>			Prepared: 06/16/2023 Analyzed: 06/17/2023					
pH	7.11		pH Units		6.91			2.85	25	
<b>Batch B3F1612 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3F1612-DUP1)</b>		<b>Source: Y306387-07</b>			Prepared: 06/16/2023 Analyzed: 06/17/2023					
pH	8.77		pH Units		8.79			0.228	25	

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L688684 - 3550B</b>										
<b>MSD (L 88393-MSD-L688684)</b>			<b>Source: Y306387-18</b>		Prepared: 06/20/2023 Analyzed: 06/21/2023					
1-Methylnaphthalene	0.09	0.00201	mg/Kg	0.165	<0.00109	54.5	30-130	2.6	30	
2-Methylnaphthalene	0.0936	0.00201	"	0.165	<0.00194	56.7	30-130	0.9	30	
Acenaphthene	0.0921	0.00067	"	0.165	<0.000304	55.8	30-130	1.7	30	
Chrysene	0.0923	0.00067	"	0.165	<0.000624	55.9	30-130	4	30	
Fluoranthene	0.0908	0.00067	"	0.165	<0.000394	55	30-130	4.8	30	
Fluorene	0.0984	0.00067	"	0.165	<0.000286	59.6	30-130	0.1	30	
Pyrene	0.0891	0.00067	"	0.165	<0.000643	54	30-130	5.8	30	
Surrogate: 4-Terphenyl-d14	57.2		"	0.33	211	57.2	33-122			
Surrogate: itrobenzene-d5	53.6		"	0.33	187	53.6	29-110			
Surrogate: 2- luorobiphenyl	60.6		"	0.33	187	60.6	33-115			
<b>MS (L 88393-MS-L688684)</b>			<b>Source: Y306387-18</b>		Prepared: 06/20/2023 Analyzed: 06/21/2023					
Fluoranthene	0.0953	0.00067	mg/Kg	0.165	<0.000394	57.7	30-130			
Chrysene	0.0961	0.00067	"	0.165	<0.000624	58.2	30-130			
1-Methylnaphthalene	0.0924	0.00201	"	0.165	<0.00109	56	30-130			
2-Methylnaphthalene	0.0927	0.00201	"	0.165	<0.00194	56.1	30-130			
Acenaphthene	0.0905	0.00067	"	0.165	<0.000304	54.8	30-130			
Fluorene	0.0985	0.00067	"	0.165	<0.000286	59.6	30-130			
Pyrene	0.0945	0.00067	"	0.165	<0.000643	57.2	30-130			
Surrogate: 2- luorobiphenyl	58.4		"	0.33	187	58.4	33-115			
Surrogate: itrobenzene-d5	50		"	0.33	187	50	29-110			
Surrogate: 4-Terphenyl-d14	56.6		"	0.33	211	56.6	33-122			
<b>LCS (LCS-L688684)</b>			Prepared: 06/20/2023 Analyzed: 06/21/2023							
Acenaphthene	0.105	0.00067	mg/Kg	0.167		62.8	30-130			
Chrysene	0.108	0.00067	"	0.167		64.6	30-130			
Fluoranthene	0.11	0.00067	"	0.167		65.8	30-130			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L688684 - 3550B

#### LCS (LCS-L688684)

Prepared: 06/20/2023 Analyzed: 06/21/2023

1-Methylnaphthalene	0.112	0.00201	mg/Kg	0.167		67	30-130			
Pyrene	0.111	0.00067	"	0.167		66.4	30-130			
2-Methylnaphthalene	0.112	0.00201	"	0.167		67	30-130			
Fluorene	0.0932	0.00067	"	0.167		55.8	30-130			
Surrogate: itrobenzene-d5	60.9		"	0.333		60.9	29-110			
Surrogate: 4-Terphenyl-d14	74.7		"	0.333		74.7	33-122			
Surrogate: 2- luorobiphenyl	73.8		"	0.333		73.8	33-115			

#### LRB (LRB-L688684)

Prepared: 06/20/2023 Analyzed: 06/21/2023

Acenaphthene	ND	0.00067	mg/Kg				-			
Chrysene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: 2- luorobiphenyl	59.4		"	0.333		59.4	33-115			
Surrogate: 4-Terphenyl-d14	72.6		"	0.333		72.6	33-122			
Surrogate: itrobenzene-d5	59.1		"	0.333		59.1	29-110			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L688580 - 3550B</b>										
<b>MSD (L 88357-MSD-L688580)</b>			<b>Source: 88357</b>		Prepared: 06/20/2023 Analyzed: 06/20/2023					
Fluorene	0.0955	0.00067	mg/Kg	0.166	<0.000286	57.5	30-130	7.5	30	
2-Methylnaphthalene	0.0834	0.00201	"	0.166	<0.00194	50.2	30-130	7.9	30	
1-Methylnaphthalene	0.0808	0.00201	"	0.166	<0.00109	48.6	30-130	8.4	30	
Acenaphthene	0.0846	0.00067	"	0.166	<0.000304	50.9	30-130	7.3	30	
Chrysene	0.0948	0.00067	"	0.166	0.00188	55.9	30-130	6.3	30	
Pyrene	0.0875	0.00067	"	0.166	0.00214	51.4	30-130	3.3	30	
Fluoranthene	0.0892	0.00067	"	0.166	0.00223	52.3	30-130	5.3	30	
Surrogate: 2- luorobiphenyl	53.7		"	0.331	19	53.7	33-115			
Surrogate: itrobenzene-d5	44.4		"	0.331	19	44.4	29-110			
Surrogate: 4-Terphenyl-d14	56.1		"	0.331	201	56.1	33-122			
<b>MS (L 88357-MS-L688580)</b>			<b>Source: 88357</b>		Prepared: 06/20/2023 Analyzed: 06/20/2023					
Pyrene	0.0905	0.00067	mg/Kg	0.162	0.00214	54.5	30-130			
Chrysene	0.101	0.00067	"	0.162	0.00188	61.1	30-130			
Fluorene	0.103	0.00067	"	0.162	<0.000286	63.5	30-130			
Fluoranthene	0.0941	0.00067	"	0.162	0.00223	56.7	30-130			
Acenaphthene	0.0911	0.00067	"	0.162	<0.000304	56.2	30-130			
1-Methylnaphthalene	0.0879	0.00201	"	0.162	<0.00109	54.2	30-130			
2-Methylnaphthalene	0.0903	0.00201	"	0.162	<0.00194	55.7	30-130			
Surrogate: itrobenzene-d5	49.5		"	0.325	19	49.5	29-110			
Surrogate: 4-Terphenyl-d14	60		"	0.325	201	60	33-122			
Surrogate: 2- luorobiphenyl	60.3		"	0.325	19	60.3	33-115			
<b>LCS (LCS-L688580)</b>			Prepared: 06/20/2023 Analyzed: 06/20/2023							
Fluorene	0.116	0.00067	mg/Kg	0.167		69.4	30-130			
Acenaphthene	0.103	0.00067	"	0.167		61.6	30-130			
Fluoranthene	0.112	0.00067	"	0.167		67	30-130			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L688580 - 3550B

#### LCS (LCS-L688580)

Prepared: 06/20/2023 Analyzed: 06/20/2023

Pyrene	0.111	0.00067	mg/Kg	0.167		66.4	30-130
1-Methylnaphthalene	0.102	0.00201	"	0.167		61	30-130
2-Methylnaphthalene	0.105	0.00201	"	0.167		62.8	30-130
Chrysene	0.118	0.00067	"	0.167		70.6	30-130
Surrogate: itrobenzene-d5	57.9		"	0.333		57.9	29-110
Surrogate: 2- luorobiphenyl	70.2		"	0.333		70.2	33-115
Surrogate: 4-Terphenyl-d14	75.6		"	0.333		75.6	33-122

#### LRB (LRB-L688580)

Prepared: 06/20/2023 Analyzed: 06/20/2023

Acenaphthene	ND	0.00067	mg/Kg			-	
Pyrene	ND	0.00067	"			-	
Fluorene	ND	0.00067	"			-	
Chrysene	ND	0.00067	"			-	
2-Methylnaphthalene	ND	0.00201	"			-	
1-Methylnaphthalene	ND	0.00201	"			-	
Fluoranthene	ND	0.00067	"			-	
Surrogate: itrobenzene-d5	27.3		"	0.333		27.3	29-110
Surrogate: 4-Terphenyl-d14	31.8		"	0.333		31.8	33-122
Surrogate: 2- luorobiphenyl	31.2		"	0.333		31.2	33-115

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 - Megan H16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

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

QR-05 Sample results fall below the RL. RPD results are insignificant for batch and are thus acceptable.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

J Estimated value. Analyte below reported quantitation limit.

QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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.*



July 06, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. June 28, 2023. This project is associated with Origins project number Y306782-01.

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 - Megan H16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B18@18'	Y306782-01	Soil	June 28, 2023 11:10	06/28/2023 14:24
PW-B19@19'	Y306782-02	Soil	June 28, 2023 11:12	06/28/2023 14:24
PW-B20@19'	Y306782-03	Soil	June 28, 2023 11:14	06/28/2023 14:24

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 - Megan H16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4306782

Client: Eagle

Client Project ID: Megan H 16-33 OSA

Checklist Completed by: EHS/HST

Shipped Via: LD

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

Date/time completed: 6/28/23

Airbill #: N/A

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

Cooler Number/Temperature: 1, 12 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7004

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

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

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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 - Megan H16-33 O SA

PW-B18@18'

6/28/2023 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306782-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2834	DM	06/28/2023	06/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DM	"	"	U

Surrogate: o-Terphenyl 76.2 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0361	0.00200	mg/kg	1	B3F2835	H	06/28/2023	06/28/2023	
1,3,5-Trimethylbenzene	0.0259	0.00200	"	"	"	H	"	"	
Benzene	ND	0.00200	"	"	"	H	"	"	U
Ethylbenzene	0.00542	0.00200	"	"	"	H	"	"	
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	0.0339	0.00200	"	"	"	H	"	"	
Gasoline Range Hydrocarbons	2.97	0.200	"	"	"	H	"	"	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "

Surrogate: Toluene-d8 108 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	1.33	0.499	meq/L	10	[CALC]	C H	06/29/2023	06/30/2023	
Magnesium	2.23	0.823	"	"	"	C H	"	"	
Sodium	9.47	0.435	"	"	"	C H	"	"	

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 - Megan H16-33 O SA

PW-B18@18'

6/28/2023 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306782-01 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	0.024	0.002	mg/kg	1	B3F2728	e	06/28/2023	06/30/2023	
2-Methylnaphthalene	0.056	0.002	"	"	"	e	"	"	
Acenaphthene	ND	0.020	"	"	"	e	"	"	U
Chrysene	ND	0.020	"	"	"	e	"	"	U
Fluoranthene	ND	0.020	"	"	"	e	"	"	U
Fluorene	ND	0.020	"	"	"	e	"	"	U
Naphthalene	0.007	0.002	"	"	"	e	"	"	
Pyrene	ND	0.020	"	"	"	e	"	"	U

Surrogate: itrobenzene-d5	84.4 %	60-130			"	"	"	
Surrogate: 2- luorobiphenyl	101 %	60-130			"	"	"	
Surrogate: Terphenyl-dl4	92.4 %	60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.13		pH Units	1	B3F2916	H D	06/29/2023	06/30/2023	
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**SAR by 20B Saturated Paste**

SAR	7.09		SAR	1	B3F2913	C H	06/29/2023	06/30/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	5.62	0.0933	mg/kg	10	B3F2909	C H	06/29/2023	06/29/2023	
Barium	191	9.33	"	"	"	C H	"	"	

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 - Megan H16-33 O SA

PW-B18@18'

6/28/2023 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306782-01 (Soil)

## Table 915 metals by EPA 6020B

Cadmium	0.164	0.0933	mg/kg	10	B3F2909	C H	06/29/2023	06/29/2023
Selenium	0.157	0.0933	"	"	"	C H	"	"

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 - Megan H16-33 O SA

PW-B19@19'

6/28/2023 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306782-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	52.3	25.0	mg/kg	1	B3F2834	DM	06/28/2023	06/28/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	DM	"	"	U

Surrogate: o-Terphenyl 76.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.189	0.00200	mg/kg	1	B3F2835	H	06/28/2023	06/28/2023	
1,3,5-Trimethylbenzene	0.110	0.00200	"	"	"	H	"	"	
Benzene	0.0279	0.00200	"	"	"	H	"	"	
Ethylbenzene	0.0377	0.00200	"	"	"	H	"	"	
Toluene	0.00662	0.00200	"	"	"	H	"	"	
Xylenes, total	0.527	0.00200	"	"	"	H	"	"	
Gasoline Range Hydrocarbons	15.1	0.200	"	"	"	H	"	"	

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 109 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 121 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	1.08	0.499	meq/L	10	[CALC]	C H	06/29/2023	06/30/2023	
Magnesium	2.27	0.823	"	"	"	C H	"	"	
Sodium	10.8	0.435	"	"	"	C H	"	"	

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 - Megan H16-33 O SA

PW-B19@19'

6/28/2023 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306782-02 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	0.140	0.010	mg/kg	5	B3F2728	e	06/30/2023	07/03/2023	
2-Methylnaphthalene	0.334	0.010	"	"	"	e	"	"	
Acenaphthene	ND	0.040	"	2	"	e	"	07/04/2023	U
Chrysene	ND	0.040	"	"	"	e	"	"	U
Fluoranthene	ND	0.040	"	"	"	e	"	"	U
Fluorene	0.044	0.040	"	"	"	e	"	"	
Naphthalene	0.051	0.010	"	5	"	e	"	07/03/2023	
Pyrene	ND	0.040	"	2	"	e	"	07/04/2023	U

Surrogate: <i>itrobenzene-d5</i>	63.5 %	60-130			"	"		07/03/2023	
Surrogate: <i>2- luorobiphenyl</i>	112 %	60-130			"	"		07/04/2023	
Surrogate: <i>Terphenyl-dl4</i>	107 %	60-130			"	"		"	

**pH in Soil by 9045D**

pH	8.15		pH Units	1	B3F2916	H D	06/29/2023	06/30/2023	
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**SAR by 20B Saturated Paste**

SAR	8.33		SAR	1	B3F2913	C H	06/29/2023	06/30/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	5.34	0.0969	mg/kg	10	B3F2909	C H	06/29/2023	06/29/2023	
Barium	170	9.69	"	"	"	C H	"	"	

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 - Megan H16-33 O SA

PW-B19@19'

6/28/2023 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306782-02 (Soil)

## Table 915 metals by EPA 6020B

Cadmium	0.174	0.0969	mg/kg	10	B3F2909	C H	06/29/2023	06/29/2023
Selenium	0.130	0.0969	"	"	"	C H	"	"

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 - Megan H16-33 O SA

PW-B20@19'

6/28/2023 11:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y306782-03 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	167	25.0	mg/kg	1	B3F2834	DM	06/28/2023	06/28/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	DM	"	"	U

Surrogate: o-Terphenyl 81.2 % 50-150 " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.372	0.00200	mg/kg	1	B3F2835	H	06/28/2023	06/28/2023	
1,3,5-Trimethylbenzene	0.139	0.00200	"	"	"	H	"	"	
Benzene	0.331	0.00200	"	"	"	H	"	"	
Ethylbenzene	0.140	0.00200	"	"	"	H	"	"	
Toluene	ND	0.00200	"	"	"	H	"	"	U
Xylenes, total	7.81	0.00200	"	"	"	SM	"	06/29/2023	
Gasoline Range Hydrocarbons	19.3	0.200	"	"	"	H	"	06/28/2023	

Surrogate: 1,2-Dichloroethane-d4 99.0 % 70-130 " "

Surrogate: Toluene-d8 105 % 70-130 " "

Surrogate: 4-Bromofluorobenzene 124 % 70-130 " "

### Metals by Saturated Paste by EPA 6010

Calcium	1.63	0.499	meq/L	10	[CALC]	C H	06/29/2023	06/30/2023	
Magnesium	3.45	0.823	"	"	"	C H	"	"	
Sodium	12.5	0.435	"	"	"	C H	"	"	

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B20@19'

6/28/2023 11:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306782-03 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	0.456	0.010	mg/kg	5	B3F2728	e	06/30/2023	07/03/2023	
2-Methylnaphthalene	1.27	0.010	"	"	"	e	"	"	
Acenaphthene	0.046	0.040	"	2	"	e	"	07/04/2023	
Chrysene	ND	0.040	"	"	"	e	"	"	U
Fluoranthene	ND	0.040	"	"	"	e	"	"	U
Fluorene	0.117	0.040	"	"	"	e	"	"	
Naphthalene	0.315	0.010	"	5	"	e	"	07/03/2023	
Pyrene	ND	0.040	"	2	"	e	"	07/04/2023	U

Surrogate: itrobenzene-d5	62.1 %	60-130			"	"		07/03/2023	
Surrogate: 2- luorobiphenyl	107 %	60-130			"	"		07/04/2023	
Surrogate: Terphenyl-dl4	112 %	60-130			"	"		"	

**pH in Soil by 9045D**

pH	7.91		pH Units	1	B3F2916	H D	06/29/2023	06/30/2023	
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**SAR by 20B Saturated Paste**

SAR	7.85		SAR	1	B3F2913	C H	06/29/2023	06/30/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.73	0.0852	mg/kg	10	B3F2909	C H	06/29/2023	06/29/2023	
Barium	163	8.52	"	"	"	C H	"	"	

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B20@19'

6/28/2023 11:14:00AM

Analyte	Result	Reporting	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.  
Y306782-03 (Soil)

## Table 915 metals by EPA 6020B

Cadmium	0.158	0.0852	mg/kg	10	B3F2909	C H	06/29/2023	06/29/2023
Selenium	0.137	0.0852	"	"	"	C H	"	"

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F2834 - EPA 3550B										
Blank (B3F2834-BLK1)					Prepared: 06/28/2023 Analyzed: 06/28/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		74.9	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F2834 - EPA 3550B										
LCS (B3F2834-BS1)					Prepared: 06/28/2023 Analyzed: 06/28/2023					
Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000		106	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F2834 - EPA 3550B

Matrix Spike (B3F2834-MS1)		Source: Y306782-01			Prepared: 06/28/2023 Analyzed: 06/28/2023					
Diesel (C10-C28)	970	50.0	mg/kg	1000	ND	97.0	70-130			
Residual Range Organics (C28-C40)	969	200	"	1000	ND	96.9	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.7	50-150			

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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F2834 - EPA 3550B

Matrix Spike Dup (B3F2834-MSD1)		Source: Y306782-01			Prepared: 06/28/2023 Analyzed: 06/28/2023					
Diesel (C10-C28)	946	50.0	mg/kg	1000	ND	94.6	70-130	2.49	35	
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	70-130	0.391	35	
Surrogate: o-Terphenyl	44		"	49.8		89.1	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F2835 - EPA 5030 (soil)										
Blank (B3F2835-BLK1)					Prepared: 06/28/2023 Analyzed: 06/28/2023					
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		101	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F2835 - EPA 5030 (soil)</b>										
<b>LCS (B3F2835-BS1)</b>					Prepared: 06/28/2023 Analyzed: 06/28/2023					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.0826	0.00200	"	0.100		82.6	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0950	0.00200	"	0.100		95.0	70-130			
o-Xylene	0.114	0.00200	"	0.100		114	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F2835 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3F2835-MS1)</b>		<b>Source: Y306782-01</b>			Prepared: 06/28/2023 Analyzed: 06/28/2023					
1,2,4-Trimethylbenzene	0.155	0.00200	mg/kg	0.100	0.0361	118	70-130			
1,3,5-Trimethylbenzene	0.142	0.00200	"	0.100	0.0259	116	70-130			
Benzene	0.0777	0.00200	"	0.100	0.000660	77.1	70-130			
Ethylbenzene	0.111	0.00200	"	0.100	0.00542	106	70-130			
Naphthalene	0.125	0.00380	"	0.100	0.00322	122	70-130			
Toluene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130			
m,p-Xylene	0.239	0.00400	"	0.200	0.0339	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F2835 - EPA 5030 (soil)										
Matrix Spike Dup (B3F2835-MSD1)			Source: Y306782-01		Prepared: 06/28/2023 Analyzed: 06/28/2023					
1,2,4-Trimethylbenzene	0.193	0.00200	mg/kg	0.100	0.0361	157	70-130	22.1	20	QM-07
1,3,5-Trimethylbenzene	0.160	0.00200	"	0.100	0.0259	134	70-130	11.6	20	QM-07
Benzene	0.0766	0.00200	"	0.100	0.000660	75.9	70-130	1.50	20	
Ethylbenzene	0.114	0.00200	"	0.100	0.00542	108	70-130	2.19	20	
Naphthalene	0.122	0.00380	"	0.100	0.00322	118	70-130	2.68	20	
Toluene	0.0883	0.00200	"	0.100	ND	88.3	70-130	2.68	20	
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130	3.44	20	
m,p-Xylene	0.249	0.00400	"	0.200	0.0339	107	70-130	3.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		118	70-130			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F2909 - EPA 3050B

#### Blank (B3F2909-BLK1)

Prepared: 06/29/2023 Analyzed: 06/29/2023

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

#### LCS (B3F2909-BS1)

Prepared: 06/29/2023 Analyzed: 06/29/2023

Arsenic	0.0499	0.000100	mg/kg	0.0500	99.8	80-120
Barium	4.92	0.0100	"	5.00	98.4	80-120
Cadmium	0.0489	0.000100	"	0.0500	97.7	80-120
Copper	0.524	0.0100	"	0.500	105	80-120
Lead	0.0504	0.0100	"	0.0500	101	80-120
Nickel	0.0532	0.0100	"	0.0500	106	80-120
Selenium	0.0487	0.000100	"	0.0500	97.5	80-120
Silver	0.0492	0.000100	"	0.0500	98.4	80-120
Zinc	0.509	0.100	"	0.500	102	80-120

#### Matrix Spike (B3F2909-MS1)

Source: Y306559-05

Prepared: 06/29/2023 Analyzed: 06/29/2023

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F2909 - EPA 3050B</b>										
<b>Matrix Spike (B3F2909-MS1)</b>		<b>Source: Y306559-05</b>			Prepared: 06/29/2023 Analyzed: 06/29/2023					
Arsenic	6.17	0.0858	mg/kg	4.29	2.82	78.0	75-125			
Barium	508	8.58	"	429	150	83.5	75-125			
Cadmium	4.43	0.0858	"	4.29	0.280	96.7	75-125			
Copper	59.7	8.58	"	42.9	15.4	103	75-125			
Lead	18.9	8.58	"	4.29	15.6	77.5	75-125			
Nickel	20.0	8.58	"	4.29	14.7	125	75-125			
Selenium	4.20	0.0858	"	4.29	0.311	90.6	75-125			
Silver	4.46	0.0858	"	4.29	0.0396	103	75-125			
Zinc	95.2	85.8	"	42.9	63.0	74.9	75-125			QM-07
<b>Matrix Spike Dup (B3F2909-MSD1)</b>		<b>Source: Y306559-05</b>			Prepared: 06/29/2023 Analyzed: 06/29/2023					
Arsenic	6.98	0.0948	mg/kg	4.74	2.82	87.8	75-125	12.4	20	
Barium	693	9.48	"	474	150	115	75-125	30.8	20	QR-02
Cadmium	4.77	0.0948	"	4.74	0.280	94.8	75-125	7.46	20	
Copper	63.6	9.48	"	47.4	15.4	102	75-125	6.40	20	
Lead	19.9	9.48	"	4.74	15.6	89.8	75-125	4.80	20	
Nickel	18.8	9.48	"	4.74	14.7	86.4	75-125	6.53	20	
Selenium	4.46	0.0948	"	4.74	0.311	87.5	75-125	5.99	20	
Silver	4.80	0.0948	"	4.74	0.0396	100	75-125	7.30	20	
Zinc	99.1	94.8	"	47.4	63.0	76.1	75-125	4.05	20	

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**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 B3F2728 - EPA 3580**

**Blank (B3F2728-BLK1)**

Prepared: 06/27/2023 Analyzed: 06/29/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: itrobenzene-d5	200		ug/ g	200	97.9	60-130
Surrogate: 2- luorobiphenyl	200		"	200	101	60-130
Surrogate: Terphenyl-d14	180		"	200	91.6	60-130

**LCS (B3F2728-BS1)**

Prepared: 06/27/2023 Analyzed: 06/29/2023

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200	107	70-130
2-Methylnaphthalene	0.229	0.002	"	0.200	114	70-130
Acenaphthene	0.204	0.020	"	0.200	102	70-130
Anthracene	0.220	0.020	"	0.200	110	70-130
Benzo (a) anthracene	0.208	0.005	"	0.200	104	70-130

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**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 B3F2728 - EPA 3580**

**LCS (B3F2728-BS1)**

Prepared: 06/27/2023 Analyzed: 06/29/2023

Benzo (a) pyrene	0.203	0.020	mg/kg	0.200		102	70-130
Benzo (b) fluoranthene	0.191	0.020	"	0.200		95.6	70-130
Benzo (g,h,i) perylene	0.187	0.020	"	0.200		93.6	70-130
Benzo (k) fluoranthene	0.204	0.020	"	0.200		102	70-130
Chrysene	0.208	0.020	"	0.200		104	70-130
Dibenz (a,h) anthracene	0.206	0.020	"	0.200		103	70-130
Fluoranthene	0.238	0.020	"	0.200		119	70-130
Fluorene	0.220	0.020	"	0.200		110	70-130
Indeno (1,2,3-cd) pyrene	0.202	0.020	"	0.200		101	70-130
Naphthalene	0.202	0.002	"	0.200		101	70-130
Phenanthrene	0.213	0.020	"	0.200		106	70-130
Pyrene	0.178	0.020	"	0.200		89.2	70-130
Surrogate: itrobenzene-d5	190		ug/ g	200		94.1	60-130
Surrogate: 2- luorobiphenyl	200		"	200		101	60-130
Surrogate: Terphenyl-dl4	170		"	200		86.7	60-130

**Matrix Spike (B3F2728-MS1)**

**Source: Y306756-01**

Prepared: 06/27/2023 Analyzed: 06/29/2023

1-Methylnaphthalene	0.262	0.002	mg/kg	0.200	0.012	125	70-130
2-Methylnaphthalene	0.266	0.002	"	0.200	0.017	125	70-130
Acenaphthene	0.240	0.020	"	0.200	ND	120	70-130
Anthracene	0.259	0.020	"	0.200	ND	129	70-130
Benzo (a) anthracene	0.259	0.005	"	0.200	ND	129	70-130
Benzo (a) pyrene	0.229	0.020	"	0.200	0.004	112	70-130
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.004	106	70-130
Benzo (g,h,i) perylene	0.225	0.020	"	0.200	ND	113	70-130
Benzo (k) fluoranthene	0.213	0.020	"	0.200	ND	106	70-130
Chrysene	0.256	0.020	"	0.200	ND	128	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 - Megan H16-33 O SA

**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 B3F2728 - EPA 3580**

Matrix Spike (B3F2728-MS1)		Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/29/2023					
Dibenz (a,h) anthracene	0.218	0.020	mg/kg	0.200	ND	109	70-130			
Fluoranthene	0.260	0.020	"	0.200	ND	130	70-130			
Fluorene	0.261	0.020	"	0.200	0.002	129	70-130			
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	ND	102	70-130			
Naphthalene	0.240	0.002	"	0.200	0.004	118	70-130			
Phenanthrene	0.266	0.020	"	0.200	0.002	132	70-130			QM-07
Pyrene	0.254	0.020	"	0.200	ND	127	70-130			
Surrogate: itrobenzene-d5	180		ug/ g	200		91.5	60-130			
Surrogate: 2- luorobiphenyl	200		"	200		99.7	60-130			
Surrogate: Terphenyl-dl4	200		"	200		98.8	60-130			

Matrix Spike Dup (B3F2728-MSD1)		Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/29/2023					
1-Methylnaphthalene	0.233	0.002	mg/kg	0.200	0.012	111	70-130	11.7	20	
2-Methylnaphthalene	0.237	0.002	"	0.200	0.017	110	70-130	11.6	20	
Acenaphthene	0.230	0.020	"	0.200	ND	115	70-130	4.07	20	
Anthracene	0.234	0.020	"	0.200	ND	117	70-130	10.3	20	
Benzo (a) anthracene	0.230	0.005	"	0.200	ND	115	70-130	11.9	20	
Benzo (a) pyrene	0.216	0.020	"	0.200	0.004	106	70-130	5.68	20	
Benzo (b) fluoranthene	0.205	0.020	"	0.200	0.004	101	70-130	4.75	20	
Benzo (g,h,i) perylene	0.223	0.020	"	0.200	ND	112	70-130	0.878	20	
Benzo (k) fluoranthene	0.213	0.020	"	0.200	ND	107	70-130	0.311	20	
Chrysene	0.233	0.020	"	0.200	ND	116	70-130	9.65	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130	0.913	20	
Fluoranthene	0.233	0.020	"	0.200	ND	116	70-130	10.8	20	
Fluorene	0.230	0.020	"	0.200	0.002	114	70-130	12.7	20	
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200	ND	109	70-130	6.43	20	
Naphthalene	0.217	0.002	"	0.200	0.004	107	70-130	9.99	20	

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

**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 B3F2728 - EPA 3580**

Matrix Spike Dup (B3F2728-MSD1)		Source: Y306756-01			Prepared: 06/27/2023 Analyzed: 06/29/2023					
Phenanthrene	0.221	0.020	mg/kg	0.200	0.002	110	70-130	18.7	20	
Pyrene	0.221	0.020	"	0.200	ND	110	70-130	13.9	20	
Surrogate: itrobenzene-d5	170		ug/ g	200		84.2	60-130			
Surrogate: 2- luorobiphenyl	220		"	200		112	60-130			
Surrogate: Terphenyl-dl4	200		"	200		98.3	60-130			

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Eagle Environmental Consulting, LLC  
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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F2913 - Saturated Paste Metals</b>										
<b>Blank (B3F2913-BLK1)</b>					Prepared: 06/29/2023 Analyzed: 06/30/2023					
SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B3F2913-DUP1)</b>					<b>Source: Y306782-01</b>		Prepared: 06/29/2023 Analyzed: 06/30/2023			
Calcium PPM	30.7	10.0	mg/L		26.7			13.9	50	
SAR	0.00		SAR		7.09			200	200	
Magnesium PPM	31.9	10.0	mg/L		27.1			16.3	50	
Sodium PPM	237	10.0	"		218			8.46	50	

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3F2916 - Saturated Paste pH/EC

Duplicate (B3F2916-DUP1)			Source: Y306782-01		Prepared: 06/29/2023 Analyzed: 06/30/2023					
pH	7.99		pH Units		8.13			1.74	25	

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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July 19, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. July 12, 2023. This project is associated with Origins project number Y307234-01.

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 - Megan H16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-S10@8'	Y307234-01	Soil	July 12, 2023 9:00	07/12/2023 15:13
PW-S10@14'	Y307234-02	Soil	July 12, 2023 9:05	07/12/2023 15:13
PW-S10@19'	Y307234-03	Soil	July 12, 2023 9:10	07/12/2023 15:13
PW-S11@8'	Y307234-04	Soil	July 12, 2023 9:15	07/12/2023 15:13
PW-S11@14'	Y307234-05	Soil	July 12, 2023 9:20	07/12/2023 15:13
PW-S11@19'	Y307234-06	Soil	July 12, 2023 9:25	07/12/2023 15:13
PW-S12@8'	Y307234-07	Soil	July 12, 2023 9:30	07/12/2023 15:13
PW-S12@14'	Y307234-08	Soil	July 12, 2023 9:35	07/12/2023 15:13
PW-S12@19'	Y307234-09	Soil	July 12, 2023 9:40	07/12/2023 15:13
PW-S13@8'	Y307234-10	Soil	July 12, 2023 9:45	07/12/2023 15:13
PW-S13@14'	Y307234-11	Soil	July 12, 2023 9:50	07/12/2023 15:13
PW-S13@19'	Y307234-12	Soil	July 12, 2023 9:55	07/12/2023 15:13
PW-S14@8'	Y307234-13	Soil	July 12, 2023 10:00	07/12/2023 15:13
PW-S14@14'	Y307234-14	Soil	July 12, 2023 10:05	07/12/2023 15:13

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 - Megan H16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-S14@19'	Y307234-15	Soil	July 12, 2023 10:10	07/12/2023 15:13
PW-S15@8'	Y307234-16	Soil	July 12, 2023 10:15	07/12/2023 15:13
PW-S15@14'	Y307234-17	Soil	July 12, 2023 10:20	07/12/2023 15:13
PW-S15@19'	Y307234-18	Soil	July 12, 2023 10:25	07/12/2023 15:13
PW-N08@8'	Y307234-19	Soil	July 12, 2023 10:30	07/12/2023 15:13
PW-N08@14'	Y307234-20	Soil	July 12, 2023 10:35	07/12/2023 15:13
PW-N08@19'	Y307234-21	Soil	July 12, 2023 10:40	07/12/2023 15:13
PW-B21@20'	Y307234-22	Soil	July 12, 2023 10:45	07/12/2023 15:13
PW-B22@20'	Y307234-23	Soil	July 12, 2023 10:50	07/12/2023 15:13
PW-B23@20'	Y307234-24	Soil	July 12, 2023 10:55	07/12/2023 15:13
PW-B24@20'	Y307234-25	Soil	July 12, 2023 11:00	07/12/2023 15:13
PW-B25@20'	Y307234-26	Soil	July 12, 2023 11:05	07/12/2023 15:13

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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LABORATORY, INC

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Sampled 4307234 page 1 of 3

Client: Eagle Environmental (ony)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0419  
Email Address: Dcoloccia@eagle-enviro.com  
Project Manager: D. Coloccia  
Project Name: Megan H16-33 O SA  
Project Number: -  
Samples Collected By: CW

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis		Turnaround Time
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	
PW-S1008	7/12/23	900	3	X					X		BTEX, N THM, S TPH PH SAR Asenic barium Cadmium Selenium 1,2-methy dibenzophen chrysene Fluoranthene Pyrene	10
PW-S1014		905										
PW-S1019		910										
PW-S1108		915										
PW-S11014		920										
PW-S11019		925										
PW-S1208		930										
PW-S12014		935										
PW-S12019		940										
PW-S1308		945										
Relinquished By: [Signature]	Date: 7/12/23	Time: 1513										
Received By: [Signature]	Date: 7/12/23	Time: 1513										

Temp Received: 7.5

Date Results Needed

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 - Megan H16-33 O SA

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**ORIGINS**  
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Sampled **4307234**

page 2 of 3

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Client: Eagle Environmental (oxy)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0419  
Email Address: DColoccia@eagle-enviro.com

Project Manager: D. Coloccia  
Project Name: Megan H16-33 O SA  
Project Number: -  
Samples Collected By: CU

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Instructions																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater			Soil	Air Summa Canister #	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Temp Received- 7.5

Date Results Needed

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

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4307234

Client: Eagle

Client Project ID: Megan H 16-33 O SA

Checklist Completed by: EH5/TSH

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

Date/time completed: 7/12/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 17.5 °C        °C        °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Emmanuel T. Smith  
Reviewed by (Project Manager)

7/12/23  
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Bynon

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-S10@8'

7/12/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 62.7 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 88.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S10@8'

7/12/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.83	0.823	"	"	"	"	"
Sodium	0.485	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	38.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	49.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	40 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.23	pH Units	1	B3G1317	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S10@8'

7/12/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-01 (Soil)

## SAR by 20B Saturated Paste

SAR	0.394			SAR	1	B3G1311	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.05	0.0868	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	155	8.68	"	"	"	"	"
Cadmium	0.188	0.0868	"	"	"	"	"
Selenium	ND	0.0868	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S10@14'

7/12/2023 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-02 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.4 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 90.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S10@14'

7/12/2023 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-02 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.59	0.823	"	"	"	"	"
Sodium	3.51	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	39.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55 %	33-122	"	"	"
Surrogate: itrobenzene-d5	40.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.55	pH Units	1	B3G1317	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S10@14'

7/12/2023 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-02 (Soil)

## SAR by 20B Saturated Paste

SAR	2.93		SAR	1	B3G1311	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.60	0.0886	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	230	8.86	"	"	"	"	"
Cadmium	0.147	0.0886	"	"	"	"	"
Selenium	0.100	0.0886	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S10@19'

7/12/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-03 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 64.5 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.588	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 88.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S10@19'

7/12/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-03 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.16	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	36.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	51.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	38.1 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.70	pH Units	1	B3G1317	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S10@19'

7/12/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-03 (Soil)

## SAR by 20B Saturated Paste

SAR	9.39			SAR	1	B3G1311	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.22	0.0910	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	205	9.10	"	"	"	"	"
Cadmium	0.152	0.0910	"	"	"	"	"
Selenium	ND	0.0910	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S11@8'

7/12/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-04 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 62.8 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 88.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S11@8'

7/12/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-04 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	3.15	0.823	"	"	"	"	"
Sodium	1.91	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	44.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.6 %	33-122	"	"	"
Surrogate: itrobenzene-d5	41.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.57	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S11@8'

7/12/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-04 (Soil)

## SAR by 20B Saturated Paste

SAR	1.44			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.24	0.0943	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	67.2	9.43	"	"	"	"	"
Cadmium	0.112	0.0943	"	"	"	"	"
Selenium	ND	0.0943	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S11@14'

7/12/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-05 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	65.9 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	90.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S11@14'

7/12/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-05 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.06	0.823	"	"	"	"	"
Sodium	7.01	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	38.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	53.3 %	33-122	"	"	"
Surrogate: itrobenzene-d5	41 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.66	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S11@14'

7/12/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-05 (Soil)

## SAR by 20B Saturated Paste

SAR	8.86			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.87	0.0992	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	146	9.92	"	"	"	"	"
Cadmium	0.169	0.0992	"	"	"	"	"
Selenium	ND	0.0992	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S11@19'

7/12/2023 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-06 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.5 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	<b>0.471</b>	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 89.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S11@19'

7/12/2023 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

### Y307234-06 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	0.828	0.823	"	"	"	"	"
Sodium	6.95	0.435	"	"	"	"	"

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	0.000553	0.000394	0.00067	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	0.000665	0.000643	0.00067	"	"	"	"	J

Surrogate: 2- fluorobiphenyl	40.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	41.1 %	29-110	"	"	"

### pH in Soil by 9045D

pH	8.70	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S11@19'

7/12/2023 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-06 (Soil)

## SAR by 20B Saturated Paste

SAR	9.70		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.48	0.0835	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	95.2	8.35	"	"	"	"	"
Cadmium	0.155	0.0835	"	"	"	"	"
Selenium	0.0877	0.0835	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S12@8'

7/12/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-07 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.9 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 88.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S12@8'

7/12/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-07 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.29	0.823	"	"	"	"	"
Sodium	3.08	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	40.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	51.2 %	33-122	"	"	"
Surrogate: itrobenzene-d5	40.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.62	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S12@8'

7/12/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-07 (Soil)

## SAR by 20B Saturated Paste

SAR	2.72		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.99	0.0970	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	90.1	9.70	"	"	"	"	"
Cadmium	0.137	0.0970	"	"	"	"	"
Selenium	ND	0.0970	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S12@14'

7/12/2023 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-08 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.8 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 89.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S12@14'

7/12/2023 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-08 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	0.957	0.823	"	"	"	"	"
Sodium	6.34	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	40.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	52.6 %	33-122	"	"	"
Surrogate: itrobenzene-d5	43.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.65	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S12@14'

7/12/2023 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-08 (Soil)

## SAR by 20B Saturated Paste

SAR	8.30		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.74	0.0885	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	228	8.85	"	"	"	"	"
Cadmium	0.181	0.0885	"	"	"	"	"
Selenium	0.166	0.0885	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S12@19'

7/12/2023 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-09 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 64.5 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 89.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S12@19'

7/12/2023 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-09 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	0.910	0.823	"	"	"	"	"
Sodium	6.67	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	42.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.9 %	33-122	"	"	"
Surrogate: itrobenzene-d5	43.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.64	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S12@19'

7/12/2023 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-09 (Soil)

## SAR by 20B Saturated Paste

SAR	8.49		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.53	0.0910	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	123	9.10	"	"	"	"	"
Cadmium	0.172	0.0910	"	"	"	"	"
Selenium	0.146	0.0910	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S13@8'

7/12/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-10 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.1 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 91.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S13@8'

7/12/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-10 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.71	0.823	"	"	"	"	"
Sodium	1.18	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	38.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	48.9 %	33-122	"	"	"
Surrogate: itrobenzene-d5	38.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.58	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S13@8'

7/12/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-10 (Soil)

## SAR by 20B Saturated Paste

SAR	0.952			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.12	0.0967	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	71.7	9.67	"	"	"	"	"
Cadmium	0.112	0.0967	"	"	"	"	"
Selenium	ND	0.0967	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S13@14'

7/12/2023 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-11 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 65.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 90.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S13@14'

7/12/2023 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-11 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.20	0.823	"	"	"	"	"
Sodium	5.30	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	36.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	50.8 %	33-122	"	"	"
Surrogate: itrobenzene-d5	38 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.83	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S13@14'

7/12/2023 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-11 (Soil)

## SAR by 20B Saturated Paste

SAR	6.41		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	1.01	0.0948	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	18.0	9.48	"	"	"	"	"
Cadmium	ND	0.0948	"	"	"	"	"
Selenium	ND	0.0948	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S13@19'

7/12/2023 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-12 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.5 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 89.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S13@19'

7/12/2023 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-12 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	5.95	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	34 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62 %	33-122	"	"	"
Surrogate: itrobenzene-d5	41.9 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.70	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S13@19'

7/12/2023 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-12 (Soil)

## SAR by 20B Saturated Paste

SAR	8.67		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.65	0.0986	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	42.3	9.86	"	"	"	"	"
Cadmium	ND	0.0986	"	"	"	"	"
Selenium	ND	0.0986	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S14@8'

7/12/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-13 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.8 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 89.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S14@8'

7/12/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-13 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.81	0.823	"	"	"	"	"
Sodium	1.42	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	45.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.6 %	33-122	"	"	"
Surrogate: itrobenzene-d5	44 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.56	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S14@8'

7/12/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-13 (Soil)

## SAR by 20B Saturated Paste

SAR	1.12		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	6.50	0.0994	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	231	9.94	"	"	"	"	"
Cadmium	0.179	0.0994	"	"	"	"	"
Selenium	0.115	0.0994	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S14@14'

7/12/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-14 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 91.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S14@14'

7/12/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-14 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.97	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	54.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.7 %	33-122	"	"	"
Surrogate: itrobenzene-d5	51.4 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.76	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S14@14'

7/12/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-14 (Soil)

## SAR by 20B Saturated Paste

SAR	7.11		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.99	0.0944	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	105	9.44	"	"	"	"	"
Cadmium	0.197	0.0944	"	"	"	"	"
Selenium	0.111	0.0944	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-S14@19'

7/12/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-15 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.1 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 90.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S14@19'

7/12/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-15 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.08	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	60.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.7 %	33-122	"	"	"
Surrogate: itrobenzene-d5	57.1 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.75	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S14@19'

7/12/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-15 (Soil)

## SAR by 20B Saturated Paste

SAR	8.39		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.03	0.0968	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	64.6	9.68	"	"	"	"	"
Cadmium	0.151	0.0968	"	"	"	"	"
Selenium	0.121	0.0968	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S15@8'

7/12/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-16 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.5 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 91.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S15@8'

7/12/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-16 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.613	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.66	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	64.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.8 %	33-122	"	"	"
Surrogate: itrobenzene-d5	59.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.54	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S15@8'

7/12/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-16 (Soil)

## SAR by 20B Saturated Paste

SAR	0.183			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.38	0.0964	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	156	9.64	"	"	"	"	"
Cadmium	0.197	0.0964	"	"	"	"	"
Selenium	0.124	0.0964	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S15@14'

7/12/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-17 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.6 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 92.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-S15@14'

7/12/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-17 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	<b>0.842</b>	0.823	"	"	"	"	"
Sodium	<b>4.28</b>	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	58.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	57.1 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	<b>8.74</b>	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S15@14'

7/12/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-17 (Soil)

## SAR by 20B Saturated Paste

SAR	5.95		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.74	0.0896	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	113	8.96	"	"	"	"	"
Cadmium	0.179	0.0896	"	"	"	"	"
Selenium	0.118	0.0896	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S15@19'

7/12/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-18 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 64.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.229	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 91.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.9 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S15@19'

7/12/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-18 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.64	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	54.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64 %	33-122	"	"	"
Surrogate: itrobenzene-d5	54.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.65	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S15@19'

7/12/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-18 (Soil)

## SAR by 20B Saturated Paste

SAR	6.07		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.17	0.0943	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	160	9.43	"	"	"	"	"
Cadmium	0.200	0.0943	"	"	"	"	"
Selenium	0.122	0.0943	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-N08@8'

7/12/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-19 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.4 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 92.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-N08@8'

7/12/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-19 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.38	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.64	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	51.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	51.1 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.26	pH Units	1	B3G1318	07/13/2023	07/14/2023
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-N08@8'

7/12/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-19 (Soil)

## SAR by 20B Saturated Paste

SAR	0.327		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.51	0.0914	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	118	9.14	"	"	"	"	"
Cadmium	0.198	0.0914	"	"	"	"	"
Selenium	ND	0.0914	"	"	"	"	"

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-N08@14'

7/12/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-20 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	69.3 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0468	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	6.14	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	94.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	119 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-N08@14'

7/12/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y307234-20 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	0.628	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.28	0.823	"	"	"	"	"
Sodium	3.90	0.435	"	"	"	"	"

### PAH by 8270D SIM

1-Methylnaphthalene	0.00327	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	0.00782	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.0019	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00334	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	55.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	53.9 %	29-110	"	"	"

### pH in Soil by 9045D

pH	8.35	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-N08@14'

7/12/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-20 (Soil)

## SAR by 20B Saturated Paste

SAR	4.00		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.79	0.0863	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	162	8.63	"	"	"	"	"
Cadmium	0.161	0.0863	"	"	"	"	"
Selenium	0.0950	0.0863	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N08@19'

7/12/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-21 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.2 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.623	0.0500	mg/kg	25	B3G1233	07/12/2023	07/13/2023	
1,3,5-Trimethylbenzene	0.578	0.0500	"	"	"	"	"	
Benzene	ND	0.00200	"	1	"	"	07/12/2023	U
Ethylbenzene	0.0911	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.332	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	19.8	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "

Surrogate: Toluene-d8 134 % 70-130 " " " S-

Surrogate: 4-Bromofluorobenzene 86.4 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-N08@19'

7/12/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-21 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.831	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.35	0.823	"	"	"	"	"
Sodium	5.69	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0309	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	0.068	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00688	0.000304	0.00067	"	"	"	"	"
Chrysene	0.000662	0.000624	0.00067	"	"	"	"	" J
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00981	0.000286	0.00067	"	"	"	"	"
Naphthalene	0.0144	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	59.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	77.6 %	33-122	"	"	"
Surrogate: itrobenzene-d5	58.2 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.26	pH Units	1	B3G1318	07/13/2023	07/14/2023
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-N08@19'

7/12/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-21 (Soil)

## SAR by 20B Saturated Paste

SAR	5.46			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.91	0.0974	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	209	9.74	"	"	"	"	"
Cadmium	0.183	0.0974	"	"	"	"	"
Selenium	ND	0.0974	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B21@20'

7/12/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-22 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	65.5 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1233	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	91.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	87.8 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B21@20'

7/12/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-22 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.44	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.34	0.823	"	"	"	"	"
Sodium	10.4	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	48.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	48 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.20	pH Units	1	B3G1318	07/13/2023	07/14/2023
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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B21@20'

7/12/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-22 (Soil)

## SAR by 20B Saturated Paste

SAR	7.58			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.75	0.0934	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	73.2	9.34	"	"	"	"	"
Cadmium	0.247	0.0934	"	"	"	"	"
Selenium	0.135	0.0934	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B22@20'

7/12/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-23 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1233	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	97.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	89.4 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B22@20'

7/12/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-23 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.12	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.73	0.823	"	"	"	"	"
Sodium	8.31	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	55.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.3 %	33-122	"	"	"
Surrogate: itrobenzene-d5	54.6 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.39	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-B22@20'

7/12/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-23 (Soil)

## SAR by 20B Saturated Paste

SAR	6.96			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	11.6	0.0853	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	166	8.53	"	"	"	"	"
Cadmium	0.234	0.0853	"	"	"	"	"
Selenium	0.283	0.0853	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B23@20'

7/12/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-24 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.8 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1233	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "  
Surrogate: Toluene-d8 92.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 88.5 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-B23@20'

7/12/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-24 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.14	0.823	"	"	"	"	"
Sodium	4.62	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- fluorobiphenyl	56.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.5 %	33-122	"	"	"
Surrogate: itrobenzene-d5	56.2 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.68	pH Units	1	B3G1319	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-B23@20'

7/12/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-24 (Soil)

## SAR by 20B Saturated Paste

SAR	5.29			SAR	1	B3G1313	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.67	0.0878	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	139	8.78	"	"	"	"	"
Cadmium	0.186	0.0878	"	"	"	"	"
Selenium	0.148	0.0878	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B24@20'

7/12/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-25 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 60.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1233	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "  
Surrogate: Toluene-d8 93.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 87.6 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-B24@20'

7/12/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-25 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.559	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	0.993	0.823	"	"	"	"	"
Sodium	6.09	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	55 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.3 %	33-122	"	"	"
Surrogate: itrobenzene-d5	53.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.57	pH Units	1	B3G1319	07/13/2023	07/14/2023
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-B24@20'

7/12/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-25 (Soil)

## SAR by 20B Saturated Paste

SAR	6.91			SAR	1	B3G1313	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.90	0.0841	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	167	8.41	"	"	"	"	"
Cadmium	0.234	0.0841	"	"	"	"	"
Selenium	0.183	0.0841	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B25@20'

7/12/2023 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-26 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.1 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1233	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "  
Surrogate: Toluene-d8 96.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 90.4 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B25@20'

7/12/2023 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-26 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.28	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.84	0.823	"	"	"	"	"
Sodium	7.37	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2- luorobiphenyl	44.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	52.4 %	33-122	"	"	"
Surrogate: itrobenzene-d5	43.7 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.30	pH Units	1	B3G1319	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-B25@20'

7/12/2023 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-26 (Soil)

## SAR by 20B Saturated Paste

SAR	5.91		SAR	1	B3G1313	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.53	0.0960	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	199	9.60	"	"	"	"	"
Cadmium	0.194	0.0960	"	"	"	"	"
Selenium	0.167	0.0960	"	"	"	"	"

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 - Megan H16-33 O SA

## 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 B3G1230 - EPA 3550B										
Blank (B3G1230-BLK1)					Prepared: 07/12/2023 Analyzed: 07/12/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		76.3	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 - Megan H16-33 O SA

## 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 B3G1230 - EPA 3550B

### LCS (B3G1230-BS1)

Prepared: 07/12/2023 Analyzed: 07/12/2023

Diesel (C10-C28)	793	50.0	mg/kg	1000		79.3	70-130			
Residual Range Organics (C28-C40)	790	200	"	1000		79.0	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.0	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.*

Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1230 - EPA 3550B

Matrix Spike (B3G1230-MS1)		Source: Y307234-01			Prepared: 07/12/2023 Analyzed: 07/12/2023					
Diesel (C10-C28)	853	50.0	mg/kg	1000	ND	85.3	70-130			
Residual Range Organics (C28-C40)	848	200	"	1000	ND	84.8	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.5	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1230 - EPA 3550B										
Matrix Spike Dup (B3G1230-MSD1)		Source: Y307234-01			Prepared: 07/12/2023 Analyzed: 07/12/2023					
Diesel (C10-C28)	781	50.0	mg/kg	1000	ND	78.1	70-130	8.85	35	
Residual Range Organics (C28-C40)	779	200	"	1000	ND	77.9	70-130	8.53	35	
Surrogate: o-Terphenyl	39		"	49.8		78.5	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 - Megan H16-33 O SA

## 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 B3G1231 - EPA 3550B										
Blank (B3G1231-BLK1)					Prepared: 07/12/2023 Analyzed: 07/13/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		72.1	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 - Megan H16-33 O SA

## 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 B3G1231 - EPA 3550B

### LCS (B3G1231-BS1)

Prepared: 07/12/2023 Analyzed: 07/13/2023

Diesel (C10-C28)	807	50.0	mg/kg	1000		80.7	70-130			
Residual Range Organics (C28-C40)	795	200	"	1000		79.5	70-130			
Surrogate: o-Terphenyl	42		"	49.8		85.1	50-150			

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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1231 - EPA 3550B

Matrix Spike (B3G1231-MS1)		Source: Y307234-21			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Diesel (C10-C28)	876	50.0	mg/kg	1000	ND	87.6	70-130			
Residual Range Organics (C28-C40)	830	200	"	1000	ND	83.0	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.9	50-150			

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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1231 - EPA 3550B										
Matrix Spike Dup (B3G1231-MSD1)		Source: Y307234-21			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Diesel (C10-C28)	891	50.0	mg/kg	1000	ND	89.1	70-130	1.66	35	
Residual Range Organics (C28-C40)	805	200	"	1000	ND	80.5	70-130	3.06	35	
Surrogate: o-Terphenyl	41		"	49.8		82.1	50-150			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1232 - EPA 5030 (soil)										
Blank (B3G1232-BLK1)					Prepared: 07/12/2023 Analyzed: 07/12/2023					
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		104	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1232 - EPA 5030 (soil)										
LCS (B3G1232-BS1)					Prepared: 07/12/2023 Analyzed: 07/12/2023					
1,2,4-Trimethylbenzene	0.0915	0.00200	mg/kg	0.100		91.5	70-130			
1,3,5-Trimethylbenzene	0.0879	0.00200	"	0.100		87.9	70-130			
Benzene	0.0982	0.00200	"	0.100		98.2	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.0901	0.00380	"	0.100		90.1	70-130			
Toluene	0.0933	0.00200	"	0.100		93.3	70-130			
o-Xylene	0.0962	0.00200	"	0.100		96.2	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		119	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1232 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3G1232-MS1)</b>		<b>Source: Y307234-01</b>			Prepared: 07/12/2023 Analyzed: 07/12/2023					
1,2,4-Trimethylbenzene	0.0940	0.00200	mg/kg	0.100	ND	94.0	70-130			
1,3,5-Trimethylbenzene	0.0940	0.00200	"	0.100	ND	94.0	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Naphthalene	0.0893	0.00380	"	0.100	ND	89.3	70-130			
Toluene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.215	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		118	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1232 - EPA 5030 (soil)										
Matrix Spike Dup (B3G1232-MSD1)			Source: Y307234-01		Prepared: 07/12/2023 Analyzed: 07/12/2023					
1,2,4-Trimethylbenzene	0.0853	0.00200	mg/kg	0.100	ND	85.3	70-130	9.70	20	
1,3,5-Trimethylbenzene	0.0822	0.00200	"	0.100	ND	82.2	70-130	13.4	20	
Benzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	4.92	20	
Ethylbenzene	0.0946	0.00200	"	0.100	ND	94.6	70-130	10.6	20	
Naphthalene	0.0886	0.00380	"	0.100	ND	88.6	70-130	0.855	20	
Toluene	0.0900	0.00200	"	0.100	ND	90.0	70-130	6.60	20	
o-Xylene	0.0906	0.00200	"	0.100	ND	90.6	70-130	10.8	20	
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.5	70-130	11.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		116	70-130			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1233 - EPA 5030 (soil)</b>										
<b>Blank (B3G1233-BLK1)</b>					Prepared: 07/12/2023 Analyzed: 07/12/2023					
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		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.8	70-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1233 - EPA 5030 (soil)										
LCS (B3G1233-BS1)					Prepared: 07/12/2023 Analyzed: 07/12/2023					
1,2,4-Trimethylbenzene	0.0998	0.00200	mg/kg	0.100		99.8	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0996	0.00200	"	0.100		99.6	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.0980	0.00200	"	0.100		98.0	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	70-130			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1233 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3G1233-MS1)</b>		<b>Source: Y307234-21</b>			Prepared: 07/12/2023 Analyzed: 07/13/2023					
1,2,4-Trimethylbenzene	0.527	0.00200	mg/kg	0.100	0.623	NR	70-130			QM-07
1,3,5-Trimethylbenzene	0.499	0.00200	"	0.100	0.578	NR	70-130			QM-07
Benzene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
Ethylbenzene	0.123	0.00200	"	0.100	0.0911	31.8	70-130			QM-07
Naphthalene	0.117	0.00380	"	0.100	0.0315	85.3	70-130			
Toluene	0.0885	0.00200	"	0.100	0.00114	87.4	70-130			
o-Xylene	0.0791	0.00200	"	0.100	0.000840	78.2	70-130			
m,p-Xylene	0.323	0.00400	"	0.200	0.331	NR	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.17		"	0.125		138	70-130			S-GC
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.2	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1233 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3G1233-MSD1)</b>			<b>Source: Y307234-21</b>		Prepared: 07/12/2023 Analyzed: 07/12/2023					
1,2,4-Trimethylbenzene	0.266	0.00200	mg/kg	0.100	0.623	NR	70-130	65.6	20	QM-07
1,3,5-Trimethylbenzene	0.254	0.00200	"	0.100	0.578	NR	70-130	65.1	20	QM-07
Benzene	0.0745	0.00200	"	0.100	ND	74.5	70-130	11.1	20	
Ethylbenzene	0.104	0.00200	"	0.100	0.0911	13.3	70-130	16.3	20	QM-07
Naphthalene	0.120	0.00380	"	0.100	0.0315	88.5	70-130	2.70	20	
Toluene	0.0787	0.00200	"	0.100	0.00114	77.6	70-130	11.7	20	
o-Xylene	0.0775	0.00200	"	0.100	0.000840	76.7	70-130	1.94	20	
m,p-Xylene	0.249	0.00400	"	0.200	0.331	NR	70-130	26.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.9	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 - Megan H16-33 O SA

## 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 B3G1227 - EPA 3050B

##### Blank (B3G1227-BLK1)

Prepared: 07/12/2023 Analyzed: 07/13/2023

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

##### LCS (B3G1227-BS1)

Prepared: 07/12/2023 Analyzed: 07/13/2023

Arsenic	0.0530	0.000100	mg/kg	0.0500	106	80-120
Barium	5.28	0.0100	"	5.00	106	80-120
Cadmium	0.0510	0.000100	"	0.0500	102	80-120
Copper	0.551	0.0100	"	0.500	110	80-120
Lead	0.0502	0.0100	"	0.0500	100	80-120
Nickel	0.0548	0.0100	"	0.0500	110	80-120
Selenium	0.0485	0.000100	"	0.0500	97.1	80-120
Silver	0.0514	0.000100	"	0.0500	103	80-120
Zinc	0.533	0.100	"	0.500	107	80-120

##### Matrix Spike (B3G1227-MS1)

Source: Y307234-01

Prepared: 07/12/2023 Analyzed: 07/13/2023

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1227 - EPA 3050B

Matrix Spike (B3G1227-MS1)		Source: Y307234-01			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Arsenic	7.70	0.0918	mg/kg	4.59	5.05	57.7	75-125			QM-07
Barium	479	9.18	"	459	155	70.6	75-125			QM-07
Cadmium	3.66	0.0918	"	4.59	0.188	75.7	75-125			
Copper	51.1	9.18	"	45.9	16.6	75.1	75-125			
Lead	11.3	9.18	"	4.59	9.63	36.9	75-125			
Nickel	15.6	9.18	"	4.59	14.1	33.5	75-125			
Selenium	3.67	0.0918	"	4.59	0.0547	78.8	75-125			
Silver	3.62	0.0918	"	4.59	0.0356	78.0	75-125			
Zinc	72.1	91.8	"	45.9	46.3	56.1	75-125			

Matrix Spike Dup (B3G1227-MSD1)		Source: Y307234-01			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Arsenic	9.76	0.0947	mg/kg	4.74	5.05	99.3	75-125	23.6	20	QM-02
Barium	610	9.47	"	474	155	96.1	75-125	24.1	20	QM-02
Cadmium	4.75	0.0947	"	4.74	0.188	96.3	75-125	25.8	20	QM-02
Copper	63.5	9.47	"	47.4	16.6	99.0	75-125	21.7	20	
Lead	14.5	9.47	"	4.74	9.63	102	75-125	24.2	20	
Nickel	20.8	9.47	"	4.74	14.1	141	75-125	28.1	20	
Selenium	4.22	0.0947	"	4.74	0.0547	87.9	75-125	13.9	20	
Silver	4.65	0.0947	"	4.74	0.0356	97.3	75-125	24.9	20	
Zinc	91.0	94.7	"	47.4	46.3	94.3	75-125	23.2	20	

#### Batch B3G1229 - EPA 3050B

Blank (B3G1229-BLK1)		Prepared: 07/12/2023 Analyzed: 07/13/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1229 - EPA 3050B

##### Blank (B3G1229-BLK1)

Prepared: 07/12/2023 Analyzed: 07/13/2023

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

##### LCS (B3G1229-BS1)

Prepared: 07/12/2023 Analyzed: 07/13/2023

Arsenic	0.0543	0.000100	mg/kg	0.0500	109	80-120
Barium	5.16	0.0100	"	5.00	103	80-120
Cadmium	0.0507	0.000100	"	0.0500	101	80-120
Copper	0.563	0.0100	"	0.500	113	80-120
Lead	0.0490	0.0100	"	0.0500	97.9	80-120
Nickel	0.0518	0.0100	"	0.0500	104	80-120
Selenium	0.0471	0.000100	"	0.0500	94.1	80-120
Silver	0.0513	0.000100	"	0.0500	103	80-120
Zinc	0.540	0.100	"	0.500	108	80-120

##### Matrix Spike (B3G1229-MS1)

Source: Y307234-21

Prepared: 07/12/2023 Analyzed: 07/13/2023

Arsenic	10.8	0.0993	mg/kg	4.97	4.91	119	75-125
Barium	666	9.93	"	497	209	92.0	75-125
Cadmium	5.11	0.0993	"	4.97	0.183	99.1	75-125
Copper	58.5	9.93	"	49.7	7.71	102	75-125
Lead	11.9	9.93	"	4.97	5.95	120	75-125
Nickel	14.8	9.93	"	4.97	8.99	118	75-125
Selenium	4.56	0.0993	"	4.97	0.0935	89.9	75-125
Silver	4.94	0.0993	"	4.97	0.0224	99.0	75-125

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 - Megan H16-33 O SA

## Metals by EPA 6000/7000 Series Methods - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G1229 - EPA 3050B										
<b>Matrix Spike (B3G1229-MS1)</b>		<b>Source: Y307234-21</b>			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Zinc	84.3	99.3	mg/kg	49.7	29.3	111	75-125			
<b>Matrix Spike Dup (B3G1229-MSD1)</b>		<b>Source: Y307234-21</b>			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Arsenic	9.66	0.0967	mg/kg	4.83	4.91	98.3	75-125	11.5	20	
Barium	639	9.67	"	483	209	89.1	75-125	4.02	20	
Cadmium	4.71	0.0967	"	4.83	0.183	93.6	75-125	8.14	20	
Copper	54.7	9.67	"	48.3	7.71	97.2	75-125	6.72	20	
Lead	11.4	9.67	"	4.83	5.95	113	75-125	3.99	20	
Nickel	14.8	9.67	"	4.83	8.99	119	75-125	0.506	20	
Selenium	4.16	0.0967	"	4.83	0.0935	84.2	75-125	9.04	20	
Silver	4.65	0.0967	"	4.83	0.0224	95.7	75-125	6.08	20	
Zinc	80.1	96.7	"	48.3	29.3	105	75-125	5.14	20	

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 - Megan H16-33 O SA

## 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 B3G1311 - Saturated Paste Metals

##### Blank (B3G1311-BLK1)

Prepared: 07/13/2023 Analyzed: 07/14/2023

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

##### Duplicate (B3G1311-DUP1)

Source: Y307231-02

Prepared: 07/13/2023 Analyzed: 07/14/2023

Calcium PPM	3.55	10.0	mg/L	3.25	8.82	50
SAR	0.00		SAR	0.270	200	200
Magnesium PPM	1.06	10.0	mg/L	1.08	1.87	50
Sodium PPM	2.40	10.0	"	2.20	8.70	50

#### Batch B3G1312 - Saturated Paste Metals

##### Blank (B3G1312-BLK1)

Prepared: 07/13/2023 Analyzed: 07/14/2023

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

##### Duplicate (B3G1312-DUP1)

Source: Y307234-04

Prepared: 07/13/2023 Analyzed: 07/14/2023

Calcium PPM	7.60	10.0	mg/L	7.54	0.793	50
SAR	0.00		SAR	1.44	200	200
Magnesium PPM	39.6	10.0	mg/L	38.3	3.42	50
Sodium PPM	44.6	10.0	"	43.9	1.38	50

#### Batch B3G1313 - Saturated Paste Metals

##### Blank (B3G1313-BLK1)

Prepared: 07/13/2023 Analyzed: 07/14/2023

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 - Megan H16-33 O SA

**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 B3G1313 - Saturated Paste Metals**

**Blank (B3G1313-BLK1)**

Prepared: 07/13/2023 Analyzed: 07/14/2023

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

**Duplicate (B3G1313-DUP1)**

**Source: Y307234-24**

Prepared: 07/13/2023 Analyzed: 07/14/2023

Calcium PPM	11.8	10.0	mg/L	7.65	42.6	50
SAR	0.00		SAR	5.29	200	200
Magnesium PPM	16.8	10.0	mg/L	13.9	19.0	50
Sodium PPM	129	10.0	"	106	19.7	50

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1317 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3G1317-DUP1)</b>		<b>Source: Y307231-02</b>			Prepared: 07/13/2023 Analyzed: 07/14/2023					
pH	7.26		pH Units		7.44			2.45	25	
<b>Batch B3G1318 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3G1318-DUP1)</b>		<b>Source: Y307234-04</b>			Prepared: 07/13/2023 Analyzed: 07/14/2023					
pH	8.52		pH Units		8.57			0.585	25	
<b>Batch B3G1319 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3G1319-DUP1)</b>		<b>Source: Y307234-24</b>			Prepared: 07/13/2023 Analyzed: 07/14/2023					
pH	8.57		pH Units		8.68			1.28	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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L693104 - 3550B**

MSD (L 99878-MSD-L693104)		Source: Y307234-17			Prepared: 07/17/2023 Analyzed: 07/18/2023					
Pyrene	0.115	0.00067	mg/Kg	0.167	<0.000643	68.8	30-130	5.9	30	
1-Methylnaphthalene	0.093	0.00201	"	0.167	<0.00109	55.6	30-130	3.7	30	
2-Methylnaphthalene	0.0928	0.00201	"	0.167	<0.00194	55.5	30-130	2.9	30	
Acenaphthene	0.0999	0.00067	"	0.167	<0.000304	59.8	30-130	4.9	30	
Chrysene	0.104	0.00067	"	0.167	<0.000624	62.2	30-130	8.2	30	
Fluoranthene	0.111	0.00067	"	0.167	<0.000394	66.4	30-130	6.1	30	
Fluorene	0.11	0.00067	"	0.167	<0.000286	65.8	30-130	8.6	30	
Naphthalene	0.0889	0.00201	"	0.167	<0.00145	53.2	30-130	4.2	30	
Surrogate: 2- luorobiphenyl	50.7		"	0.333	194	50.7	33-115			
Surrogate: 4-Terphenyl-d14	64.5		"	0.333	238	64.5	33-122			
Surrogate: itrobenzene-d5	50.4		"	0.333	190	50.4	29-110			

MS (L 99878-MS-L693104)		Source: Y307234-17			Prepared: 07/17/2023 Analyzed: 07/18/2023					
Pyrene	0.122	0.00067	mg/Kg	0.164	<0.000643	74.3	30-130			
2-Methylnaphthalene	0.0956	0.00201	"	0.164	<0.00194	58.2	30-130			
Acenaphthene	0.105	0.00067	"	0.164	<0.000304	64	30-130			
Chrysene	0.113	0.00067	"	0.164	<0.000624	68.9	30-130			
Fluoranthene	0.118	0.00067	"	0.164	<0.000394	71.9	30-130			
Fluorene	0.12	0.00067	"	0.164	<0.000286	73.1	30-130			
Naphthalene	0.0928	0.00201	"	0.164	<0.00145	56.5	30-130			
1-Methylnaphthalene	0.0966	0.00201	"	0.164	<0.00109	58.9	30-130			
Surrogate: 2- luorobiphenyl	53		"	0.328	194	53	33-115			
Surrogate: 4-Terphenyl-d14	68.9		"	0.328	238	68.9	33-122			
Surrogate: itrobenzene-d5	53		"	0.328	190	53	29-110			

LCS (LCS-L693104)		Prepared: 07/17/2023 Analyzed: 07/18/2023								
1-Methylnaphthalene	0.0979	0.00201	mg/Kg	0.167		58.6	30-130			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L693104 - 3550B**

**LCS (LCS-L693104)**

Prepared: 07/17/2023 Analyzed: 07/18/2023

Pyrene	0.126	0.00067	mg/Kg	0.167		75.4	30-130			
2-Methylnaphthalene	0.0966	0.00201	"	0.167		57.8	30-130			
Acenaphthene	0.105	0.00067	"	0.167		62.8	30-130			
Chrysene	0.118	0.00067	"	0.167		70.6	30-130			
Fluoranthene	0.122	0.00067	"	0.167		73	30-130			
Fluorene	0.121	0.00067	"	0.167		72.4	30-130			
Naphthalene	0.0945	0.00201	"	0.167		56.5	30-130			

Surrogate: 2- luorobiphenyl	60		"	0.333		60	33-115			
Surrogate: 4-Terphenyl-d14	77.4		"	0.333		77.4	33-122			
Surrogate: itrobenzene-d5	56.7		"	0.333		56.7	29-110			

**LRB (LRB-L693104)**

Prepared: 07/17/2023 Analyzed: 07/18/2023

Pyrene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Chrysene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	72.3		"	0.333		72.3	33-122			
Surrogate: itrobenzene-d5	55.2		"	0.333		55.2	29-110			
Surrogate: 2- luorobiphenyl	58.5		"	0.333		58.5	33-115			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L692961 - 3550B**

MSD (L 99852-MSD-L692961)		Source: 99852			Prepared: 07/17/2023 Analyzed: 07/17/2023					
Fluoranthene	0.098	0.00067	mg/Kg	0.162	0.00154	59.5	30-130	9.7	30	
Naphthalene	0.0684	0.00201	"	0.162	<0.00145	42.2	30-130	25.1	30	
Fluorene	0.0947	0.00067	"	0.162	<0.000286	58.4	30-130	31.4	30	
Chrysene	0.0877	0.00067	"	0.162	0.0017	53	30-130	26	30	
Acenaphthene	0.0816	0.00067	"	0.162	<0.000304	50.3	30-130	28.7	30	
2-Methylnaphthalene	0.0716	0.00201	"	0.162	<0.00194	44.1	30-130	25.7	30	
1-Methylnaphthalene	0.0731	0.00201	"	0.162	<0.00109	45.1	30-130	32	30	
Pyrene	0.0899	0.00067	"	0.162	0.00147	54.5	30-130	9.7	30	
Surrogate: itrobenzene-d5	46.1		"	0.325	144	46.1	29-110			
Surrogate: 2- luorobiphenyl	48.9		"	0.325	177	48.9	33-115			
Surrogate: 4-Terphenyl-d14	59.3		"	0.325	182	59.3	33-122			

MS (L 99852-MS-L692961)		Source: 99852			Prepared: 07/17/2023 Analyzed: 07/17/2023					
2-Methylnaphthalene	0.0928	0.00201	mg/Kg	0.164	<0.00194	56.5	30-130			
Pyrene	0.0991	0.00067	"	0.164	0.00147	59.5	30-130			
Naphthalene	0.0881	0.00201	"	0.164	<0.00145	53.7	30-130			
Fluorene	0.13	0.00067	"	0.164	<0.000286	79.2	30-130			
Fluoranthene	0.108	0.00067	"	0.164	0.00154	64.9	30-130			
Chrysene	0.114	0.00067	"	0.164	0.0017	68.4	30-130			
1-Methylnaphthalene	0.101	0.00201	"	0.164	<0.00109	61.5	30-130			
Acenaphthene	0.109	0.00067	"	0.164	<0.000304	66.4	30-130			
Surrogate: 2- luorobiphenyl	70.5		"	0.329	177	70.5	33-115			
Surrogate: 4-Terphenyl-d14	71.4		"	0.329	182	71.4	33-122			
Surrogate: itrobenzene-d5	58		"	0.329	144	58	29-110			

LCS (LCS-L692961)		Prepared: 07/17/2023 Analyzed: 07/17/2023								
Pyrene	0.117	0.00067	mg/Kg	0.167		70	30-130			

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 - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L692961 - 3550B</b>										
<b>LCS (LCS-L692961)</b>					Prepared: 07/17/2023 Analyzed: 07/17/2023					
2-Methylnaphthalene	0.0976	0.00201	mg/Kg	0.167		58.4	30-130			
Acenaphthene	0.11	0.00067	"	0.167		65.8	30-130			
Chrysene	0.132	0.00067	"	0.167		79	30-130			
Fluoranthene	0.126	0.00067	"	0.167		75.4	30-130			
Fluorene	0.139	0.00067	"	0.167		83.2	30-130			
1-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Naphthalene	0.0953	0.00201	"	0.167		57	30-130			
Surrogate: 2- Iuorobiphenyl	57.6		"	0.333		57.6	33-115			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: itrobenzene-d5	54		"	0.333		54	29-110			
<b>LRB (LRB-L692961)</b>					Prepared: 07/17/2023 Analyzed: 07/17/2023					
1-Methylnaphthalene	ND	0.00201	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: itrobenzene-d5	38.7		"	0.333		38.7	29-110			
Surrogate: 4-Terphenyl-d14	48.6		"	0.333		48.6	33-122			
Surrogate: 2- Iuorobiphenyl	43.5		"	0.333		43.5	33-115			

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

### Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- J Estimated value. Analyte below reported quantitation limit.

QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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



July 19, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H16-33 O SA received by Origins Laboratory, Inc. July 12, 2023. This project is associated with Origins project number Y307234-01.

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 - Megan H16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-S10@8'	Y307234-01	Soil	July 12, 2023 9:00	07/12/2023 15:13
PW-S10@14'	Y307234-02	Soil	July 12, 2023 9:05	07/12/2023 15:13
PW-S10@19'	Y307234-03	Soil	July 12, 2023 9:10	07/12/2023 15:13
PW-S11@8'	Y307234-04	Soil	July 12, 2023 9:15	07/12/2023 15:13
PW-S11@14'	Y307234-05	Soil	July 12, 2023 9:20	07/12/2023 15:13
PW-S11@19'	Y307234-06	Soil	July 12, 2023 9:25	07/12/2023 15:13
PW-S12@8'	Y307234-07	Soil	July 12, 2023 9:30	07/12/2023 15:13
PW-S12@14'	Y307234-08	Soil	July 12, 2023 9:35	07/12/2023 15:13
PW-S12@19'	Y307234-09	Soil	July 12, 2023 9:40	07/12/2023 15:13
PW-S13@8'	Y307234-10	Soil	July 12, 2023 9:45	07/12/2023 15:13
PW-S13@14'	Y307234-11	Soil	July 12, 2023 9:50	07/12/2023 15:13
PW-S13@19'	Y307234-12	Soil	July 12, 2023 9:55	07/12/2023 15:13
PW-S14@8'	Y307234-13	Soil	July 12, 2023 10:00	07/12/2023 15:13
PW-S14@14'	Y307234-14	Soil	July 12, 2023 10:05	07/12/2023 15:13

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 - Megan H16-33 O SA

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-S14@19'	Y307234-15	Soil	July 12, 2023 10:10	07/12/2023 15:13
PW-S15@8'	Y307234-16	Soil	July 12, 2023 10:15	07/12/2023 15:13
PW-S15@14'	Y307234-17	Soil	July 12, 2023 10:20	07/12/2023 15:13
PW-S15@19'	Y307234-18	Soil	July 12, 2023 10:25	07/12/2023 15:13
PW-N08@8'	Y307234-19	Soil	July 12, 2023 10:30	07/12/2023 15:13
PW-N08@14'	Y307234-20	Soil	July 12, 2023 10:35	07/12/2023 15:13
PW-N08@19'	Y307234-21	Soil	July 12, 2023 10:40	07/12/2023 15:13
PW-B21@20'	Y307234-22	Soil	July 12, 2023 10:45	07/12/2023 15:13
PW-B22@20'	Y307234-23	Soil	July 12, 2023 10:50	07/12/2023 15:13
PW-B23@20'	Y307234-24	Soil	July 12, 2023 10:55	07/12/2023 15:13
PW-B24@20'	Y307234-25	Soil	July 12, 2023 11:00	07/12/2023 15:13
PW-B25@20'	Y307234-26	Soil	July 12, 2023 11:05	07/12/2023 15:13

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 - Megan H16-33 O SA

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

**ORIGINS**  
LABORATORY, INC

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Sampled 4307234 page 1 of 3

Client: Eagle Environmental (ony)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0419  
Email Address: Dcoloccia@eagle-enviro.com  
Project Manager: D. Coloccia  
Project Name: Megan H16-33 O SA  
Project Number: -  
Samples Collected By: CW

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis	Turnaround Time
				Unpreserved	HCl	HNO <sub>3</sub>	Other			
PW-S1008	7/12/23	900	3	X				Soil	Other: BTEX, N, TPH, PH, SAR, Arsenic, Barium, Cadmium, Selenium, 1,2-methyl, Acenaphthene, Chrysene, Fluoranthene, Pyrene	10
PW-S1014		905								9
PW-S1019		910								8
PW-S1108		915								7
PW-S11014		920								6
PW-S11019		925								5
PW-S1208		930								4
PW-S12014		935								3
PW-S12019		940								2
PW-S1308		945								1

Relinquished By: [Signature] Date: 7/12/23 Time: 513  
Received By: [Signature] Date: 7/12/23 Time: 513  
Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Temp Received: 7.5

Date Results Needed

Origins Laboratory, Inc.

*Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

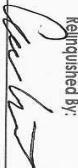
**ORIGINS**  
LABORATORY, INC

Sampled **4307234**

page 2 of 3

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Client: Eagle Environmental (oxy)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0419  
Email Address: DColoccia@eagle-enviro.com  
Project Manager: D. Coloccia  
Project Name: Megan H16-33 O SA  
Project Number: -  
Samples Collected By: CU

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis																
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX, N	TPH	PH	SAR	arsenic	barium	Cadmium	Selenium	1-2 methyl	acenaphthene	chrysene	fluoranthene	fluorene	pyrene
PW-S13014	7/12/23	950	3	X				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PW-S13019		955									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PW-S1408		1000									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PW-S14014		1005									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PW-S14019		1010									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PW-S1508		1015									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PW-S15014		1020									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PW-S15019		1025									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PW-N0808		1030									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PW-N08014		1035									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Relinquished By: 	Date: 7/12/23	Time: 5:13		Received By: EHS	Date: 7/12/23	Time: 5:13		Turnaround Time: Same day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>																	
Relinquished By:	Date:	Time:		Received By:	Date:	Time:		Standard <input type="checkbox"/>																	

Temp Received- 7.5 Date Results Needed

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

Origins Laboratory, Inc.  
*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4307234

Client: Eagle

Client Project ID: Megan H 16-33 O SA

Checklist Completed by: EH5/TSH

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

Date/time completed: 7/12/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 7.5 °C        °C        °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Emmanuel T. Smith  
Reviewed by (Project Manager)

7/12/23  
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Bynon

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

PW-S10@8'

7/12/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 62.7 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 88.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S10@8'

7/12/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.83	0.823	"	"	"	"	"
Sodium	0.485	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	38.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	49.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	40 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.23	pH Units	1	B3G1317	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S10@8'

7/12/2023 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-01 (Soil)

## SAR by 20B Saturated Paste

SAR	0.394			SAR	1	B3G1311	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.05	0.0868	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	155	8.68	"	"	"	"	"
Cadmium	0.188	0.0868	"	"	"	"	"
Selenium	ND	0.0868	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S10@14'

7/12/2023 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.4 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 90.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S10@14'

7/12/2023 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-02 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.59	0.823	"	"	"	"	"
Sodium	3.51	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	39.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	40.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.55	pH Units	1	B3G1317	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S10@14'

7/12/2023 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-02 (Soil)

## SAR by 20B Saturated Paste

SAR	2.93		SAR	1	B3G1311	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.60	0.0886	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	230	8.86	"	"	"	"	"
Cadmium	0.147	0.0886	"	"	"	"	"
Selenium	0.100	0.0886	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S10@19'

7/12/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-03 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 64.5 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.588	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 88.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S10@19'

7/12/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-03 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.16	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	36.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	51.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	38.1 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.70	pH Units	1	B3G1317	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S10@19'

7/12/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-03 (Soil)

## SAR by 20B Saturated Paste

SAR	9.39		SAR	1	B3G1311	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.22	0.0910	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	205	9.10	"	"	"	"	"
Cadmium	0.152	0.0910	"	"	"	"	"
Selenium	ND	0.0910	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S11@8'

7/12/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-04 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 62.8 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 88.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S11@8'

7/12/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-04 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	3.15	0.823	"	"	"	"	"
Sodium	1.91	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	44.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	41.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.57	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S11@8'

7/12/2023 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-04 (Soil)

## SAR by 20B Saturated Paste

SAR	1.44			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.24	0.0943	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	67.2	9.43	"	"	"	"	"
Cadmium	0.112	0.0943	"	"	"	"	"
Selenium	ND	0.0943	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S11@14'

7/12/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-05 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 65.9 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 90.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S11@14'

7/12/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-05 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.06	0.823	"	"	"	"	"
Sodium	7.01	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	38.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	53.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	41 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.66	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S11@14'

7/12/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-05 (Soil)

## SAR by 20B Saturated Paste

SAR	8.86		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.87	0.0992	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	146	9.92	"	"	"	"	"
Cadmium	0.169	0.0992	"	"	"	"	"
Selenium	ND	0.0992	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S11@19'

7/12/2023 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-06 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.5 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	<b>0.471</b>	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 89.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S11@19'

7/12/2023 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-06 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	<b>0.828</b>	0.823	"	"	"	"	"
Sodium	<b>6.95</b>	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	<b>0.000553</b>	<b>0.000394</b>	0.00067	"	"	"	"	" J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	<b>0.000665</b>	<b>0.000643</b>	0.00067	"	"	"	"	" J

Surrogate: 2-Fluorobiphenyl	40.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	41.1 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	<b>8.70</b>	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S11@19'

7/12/2023 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-06 (Soil)

## SAR by 20B Saturated Paste

SAR	9.70			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.48	0.0835	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	95.2	8.35	"	"	"	"	"
Cadmium	0.155	0.0835	"	"	"	"	"
Selenium	0.0877	0.0835	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S12@8'

7/12/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-07 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.9 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 88.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S12@8'

7/12/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-07 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.29	0.823	"	"	"	"	"
Sodium	3.08	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	40.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	51.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	40.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.62	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S12@8'

7/12/2023 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-07 (Soil)

## SAR by 20B Saturated Paste

SAR	2.72			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.99	0.0970	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	90.1	9.70	"	"	"	"	"
Cadmium	0.137	0.0970	"	"	"	"	"
Selenium	ND	0.0970	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S12@14'

7/12/2023 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-08 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.8 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 89.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S12@14'

7/12/2023 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-08 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	0.957	0.823	"	"	"	"	"
Sodium	6.34	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	40.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	52.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.65	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S12@14'

7/12/2023 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-08 (Soil)

## SAR by 20B Saturated Paste

SAR	8.30		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.74	0.0885	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	228	8.85	"	"	"	"	"
Cadmium	0.181	0.0885	"	"	"	"	"
Selenium	0.166	0.0885	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S12@19'

7/12/2023 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-09 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 64.5 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 89.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S12@19'

7/12/2023 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-09 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	0.910	0.823	"	"	"	"	"
Sodium	6.67	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	42.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.64	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S12@19'

7/12/2023 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-09 (Soil)

## SAR by 20B Saturated Paste

SAR	8.49			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.53	0.0910	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	123	9.10	"	"	"	"	"
Cadmium	0.172	0.0910	"	"	"	"	"
Selenium	0.146	0.0910	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S13@8'

7/12/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-10 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 91.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S13@8'

7/12/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-10 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.71	0.823	"	"	"	"	"
Sodium	1.18	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	38.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	48.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	38.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.58	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S13@8'

7/12/2023 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-10 (Soil)

## SAR by 20B Saturated Paste

SAR	0.952			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.12	0.0967	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	71.7	9.67	"	"	"	"	"
Cadmium	0.112	0.0967	"	"	"	"	"
Selenium	ND	0.0967	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S13@14'

7/12/2023 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-11 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 65.9 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 90.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S13@14'

7/12/2023 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-11 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.20	0.823	"	"	"	"	"
Sodium	5.30	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	36.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	50.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	38 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.83	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S13@14'

7/12/2023 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-11 (Soil)

## SAR by 20B Saturated Paste

SAR	6.41		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	1.01	0.0948	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	18.0	9.48	"	"	"	"	"
Cadmium	ND	0.0948	"	"	"	"	"
Selenium	ND	0.0948	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S13@19'

7/12/2023 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-12 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.5 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 89.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S13@19'

7/12/2023 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-12 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	5.95	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	34 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	41.9 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.70	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S13@19'

7/12/2023 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-12 (Soil)

## SAR by 20B Saturated Paste

SAR	8.67			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.65	0.0986	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	42.3	9.86	"	"	"	"	"
Cadmium	ND	0.0986	"	"	"	"	"
Selenium	ND	0.0986	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S14@8'

7/12/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-13 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.8 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 89.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S14@8'

7/12/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-13 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.81	0.823	"	"	"	"	"
Sodium	1.42	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L692961	07/17/2023	07/17/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	45.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	44 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.56	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S14@8'

7/12/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-13 (Soil)

## SAR by 20B Saturated Paste

SAR	1.12		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	6.50	0.0994	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	231	9.94	"	"	"	"	"
Cadmium	0.179	0.0994	"	"	"	"	"
Selenium	0.115	0.0994	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S14@14'

7/12/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-14 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.6 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 91.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S14@14'

7/12/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-14 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.97	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.4 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.76	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S14@14'

7/12/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-14 (Soil)

## SAR by 20B Saturated Paste

SAR	7.11			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.99	0.0944	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	105	9.44	"	"	"	"	"
Cadmium	0.197	0.0944	"	"	"	"	"
Selenium	0.111	0.0944	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S14@19'

7/12/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-15 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 68.1 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 90.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S14@19'

7/12/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-15 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.08	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.1 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.75	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S14@19'

7/12/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-15 (Soil)

## SAR by 20B Saturated Paste

SAR	8.39		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.03	0.0968	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	64.6	9.68	"	"	"	"	"
Cadmium	0.151	0.0968	"	"	"	"	"
Selenium	0.121	0.0968	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S15@8'

7/12/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-16 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.5 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 91.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S15@8'

7/12/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-16 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.613	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.66	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	64.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.54	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S15@8'

7/12/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-16 (Soil)

## SAR by 20B Saturated Paste

SAR	0.183		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.38	0.0964	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	156	9.64	"	"	"	"	"
Cadmium	0.197	0.0964	"	"	"	"	"
Selenium	0.124	0.0964	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S15@14'

7/12/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-17 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.6 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 92.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-S15@14'

7/12/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-17 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	<b>0.842</b>	0.823	"	"	"	"	"
Sodium	<b>4.28</b>	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.1 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	<b>8.74</b>	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S15@14'

7/12/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-17 (Soil)

## SAR by 20B Saturated Paste

SAR	5.95			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.74	0.0896	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	113	8.96	"	"	"	"	"
Cadmium	0.179	0.0896	"	"	"	"	"
Selenium	0.118	0.0896	"	"	"	"	"

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 - Megan H16-33 O SA

PW-S15@19'

7/12/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-18 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 64.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.229	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 91.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.9 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-S15@19'

7/12/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-18 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.64	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.5 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.65	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-S15@19'

7/12/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-18 (Soil)

## SAR by 20B Saturated Paste

SAR	6.07		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.17	0.0943	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	160	9.43	"	"	"	"	"
Cadmium	0.200	0.0943	"	"	"	"	"
Selenium	0.122	0.0943	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N08@8'

7/12/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-19 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.4 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 92.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-N08@8'

7/12/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-19 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.38	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.64	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.1 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.26	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-N08@8'

7/12/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-19 (Soil)

## SAR by 20B Saturated Paste

SAR	0.327		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.51	0.0914	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	118	9.14	"	"	"	"	"
Cadmium	0.198	0.0914	"	"	"	"	"
Selenium	ND	0.0914	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N08@14'

7/12/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-20 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1230	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	69.3 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0468	0.00200	mg/kg	1	B3G1232	07/12/2023	07/13/2023	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	6.14	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	94.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	119 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-N08@14'

7/12/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-20 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.628	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.28	0.823	"	"	"	"	"
Sodium	3.90	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00327	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	0.00782	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.0019	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00334	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.9 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.35	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-N08@14'

7/12/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-20 (Soil)

## SAR by 20B Saturated Paste

SAR	4.00		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.79	0.0863	mg/kg	10	B3G1227	07/12/2023	07/13/2023
Barium	162	8.63	"	"	"	"	"
Cadmium	0.161	0.0863	"	"	"	"	"
Selenium	0.0950	0.0863	"	"	"	"	"

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 - Megan H16-33 O SA

PW-N08@19'

7/12/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-21 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.2 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.623	0.0500	mg/kg	25	B3G1233	07/12/2023	07/13/2023	
1,3,5-Trimethylbenzene	0.578	0.0500	"	"	"	"	"	
Benzene	ND	0.00200	"	1	"	"	07/12/2023	U
Ethylbenzene	0.0911	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.332	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	19.8	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "

Surrogate: Toluene-d8 134 % 70-130 " " " S-GC

Surrogate: 4-Bromofluorobenzene 86.4 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-N08@19'

7/12/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-21 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.831	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.35	0.823	"	"	"	"	"
Sodium	5.69	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	0.0309	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	0.068	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00688	0.000304	0.00067	"	"	"	"	"
Chrysene	0.000662	0.000624	0.00067	"	"	"	"	" J
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00981	0.000286	0.00067	"	"	"	"	"
Naphthalene	0.0144	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	77.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.2 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.26	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-N08@19'

7/12/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-21 (Soil)

## SAR by 20B Saturated Paste

SAR	5.46			SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.91	0.0974	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	209	9.74	"	"	"	"	"
Cadmium	0.183	0.0974	"	"	"	"	"
Selenium	ND	0.0974	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B21@20'

7/12/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-22 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	65.5 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1233	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	91.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	87.8 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B21@20'

7/12/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-22 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.44	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	2.34	0.823	"	"	"	"	"
Sodium	10.4	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.20	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-B21@20'

7/12/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-22 (Soil)

## SAR by 20B Saturated Paste

SAR	7.58		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.75	0.0934	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	73.2	9.34	"	"	"	"	"
Cadmium	0.247	0.0934	"	"	"	"	"
Selenium	0.135	0.0934	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B22@20'

7/12/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-23 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1233	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	97.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	89.4 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B22@20'

7/12/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-23 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.12	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.73	0.823	"	"	"	"	"
Sodium	8.31	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.6 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.39	pH Units	1	B3G1318	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-B22@20'

7/12/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-23 (Soil)

## SAR by 20B Saturated Paste

SAR	6.96		SAR	1	B3G1312	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	11.6	0.0853	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	166	8.53	"	"	"	"	"
Cadmium	0.234	0.0853	"	"	"	"	"
Selenium	0.283	0.0853	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B23@20'

7/12/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-24 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.8 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1233	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "  
Surrogate: Toluene-d8 92.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 88.5 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B23@20'

7/12/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-24 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.14	0.823	"	"	"	"	"
Sodium	4.62	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.2 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.68	pH Units	1	B3G1319	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-B23@20'

7/12/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-24 (Soil)

## SAR by 20B Saturated Paste

SAR	5.29		SAR	1	B3G1313	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.67	0.0878	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	139	8.78	"	"	"	"	"
Cadmium	0.186	0.0878	"	"	"	"	"
Selenium	0.148	0.0878	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B24@20'

7/12/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-25 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 60.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1233	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "  
Surrogate: Toluene-d8 93.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 87.6 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H16-33 O SA

PW-B24@20'

7/12/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-25 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.559	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	0.993	0.823	"	"	"	"	"
Sodium	6.09	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.57	pH Units	1	B3G1319	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-B24@20'

7/12/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-25 (Soil)

## SAR by 20B Saturated Paste

SAR	6.91		SAR	1	B3G1313	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	4.90	0.0841	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	167	8.41	"	"	"	"	"
Cadmium	0.234	0.0841	"	"	"	"	"
Selenium	0.183	0.0841	"	"	"	"	"

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 - Megan H16-33 O SA

PW-B25@20'

7/12/2023 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-26 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G1231	07/12/2023	07/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.1 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G1233	07/12/2023	07/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "  
Surrogate: Toluene-d8 96.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 90.4 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H16-33 O SA

PW-B25@20'

7/12/2023 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307234-26 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.28	0.499	meq/L	10	[CALC]	07/13/2023	07/14/2023
Magnesium	1.84	0.823	"	"	"	"	"
Sodium	7.37	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L693104	07/17/2023	07/18/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	44.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	52.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43.7 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	8.30	pH Units	1	B3G1319	07/13/2023	07/14/2023
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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 - Megan H16-33 O SA

PW-B25@20'

7/12/2023 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307234-26 (Soil)

## SAR by 20B Saturated Paste

SAR	5.91		SAR	1	B3G1313	07/13/2023	07/14/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.53	0.0960	mg/kg	10	B3G1229	07/12/2023	07/13/2023
Barium	199	9.60	"	"	"	"	"
Cadmium	0.194	0.0960	"	"	"	"	"
Selenium	0.167	0.0960	"	"	"	"	"

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 - Megan H16-33 O SA

## 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 B3G1230 - EPA 3550B										
Blank (B3G1230-BLK1)					Prepared: 07/12/2023 Analyzed: 07/12/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		76.3	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 - Megan H16-33 O SA

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 B3G1230 - EPA 3550B

LCS (B3G1230-BS1)

Prepared: 07/12/2023 Analyzed: 07/12/2023

Diesel (C10-C28)	793	50.0	mg/kg	1000		79.3	70-130			
Residual Range Organics (C28-C40)	790	200	"	1000		79.0	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.0	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1230 - EPA 3550B

Matrix Spike (B3G1230-MS1)		Source: Y307234-01			Prepared: 07/12/2023 Analyzed: 07/12/2023					
Diesel (C10-C28)	853	50.0	mg/kg	1000	ND	85.3	70-130			
Residual Range Organics (C28-C40)	848	200	"	1000	ND	84.8	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.5	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1230 - EPA 3550B										
Matrix Spike Dup (B3G1230-MSD1)		Source: Y307234-01			Prepared: 07/12/2023 Analyzed: 07/12/2023					
Diesel (C10-C28)	781	50.0	mg/kg	1000	ND	78.1	70-130	8.85	35	
Residual Range Organics (C28-C40)	779	200	"	1000	ND	77.9	70-130	8.53	35	
Surrogate: o-Terphenyl	39		"	49.8		78.5	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 - Megan H16-33 O SA

## 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 B3G1231 - EPA 3550B										
Blank (B3G1231-BLK1)					Prepared: 07/12/2023 Analyzed: 07/13/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		72.1	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 - Megan H16-33 O SA

## 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 B3G1231 - EPA 3550B

### LCS (B3G1231-BS1)

Prepared: 07/12/2023 Analyzed: 07/13/2023

Diesel (C10-C28)	807	50.0	mg/kg	1000		80.7	70-130			
Residual Range Organics (C28-C40)	795	200	"	1000		79.5	70-130			
Surrogate: o-Terphenyl	42		"	49.8		85.1	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1231 - EPA 3550B

Matrix Spike (B3G1231-MS1)		Source: Y307234-21			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Diesel (C10-C28)	876	50.0	mg/kg	1000	ND	87.6	70-130			
Residual Range Organics (C28-C40)	830	200	"	1000	ND	83.0	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.9	50-150			

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1231 - EPA 3550B										
Matrix Spike Dup (B3G1231-MSD1)		Source: Y307234-21			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Diesel (C10-C28)	891	50.0	mg/kg	1000	ND	89.1	70-130	1.66	35	
Residual Range Organics (C28-C40)	805	200	"	1000	ND	80.5	70-130	3.06	35	
Surrogate: o-Terphenyl	41		"	49.8		82.1	50-150			

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1232 - EPA 5030 (soil)										
Blank (B3G1232-BLK1)					Prepared: 07/12/2023 Analyzed: 07/12/2023					
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		104	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	70-130			

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8000 W 44th Ave  
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1232 - EPA 5030 (soil)										
LCS (B3G1232-BS1)					Prepared: 07/12/2023 Analyzed: 07/12/2023					
1,2,4-Trimethylbenzene	0.0915	0.00200	mg/kg	0.100		91.5	70-130			
1,3,5-Trimethylbenzene	0.0879	0.00200	"	0.100		87.9	70-130			
Benzene	0.0982	0.00200	"	0.100		98.2	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.0901	0.00380	"	0.100		90.1	70-130			
Toluene	0.0933	0.00200	"	0.100		93.3	70-130			
o-Xylene	0.0962	0.00200	"	0.100		96.2	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		119	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1232 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3G1232-MS1)</b>		<b>Source: Y307234-01</b>			Prepared: 07/12/2023 Analyzed: 07/12/2023					
1,2,4-Trimethylbenzene	0.0940	0.00200	mg/kg	0.100	ND	94.0	70-130			
1,3,5-Trimethylbenzene	0.0940	0.00200	"	0.100	ND	94.0	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Naphthalene	0.0893	0.00380	"	0.100	ND	89.3	70-130			
Toluene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.215	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		118	70-130			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1232 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3G1232-MSD1)</b>		<b>Source: Y307234-01</b>			Prepared: 07/12/2023 Analyzed: 07/12/2023					
1,2,4-Trimethylbenzene	0.0853	0.00200	mg/kg	0.100	ND	85.3	70-130	9.70	20	
1,3,5-Trimethylbenzene	0.0822	0.00200	"	0.100	ND	82.2	70-130	13.4	20	
Benzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	4.92	20	
Ethylbenzene	0.0946	0.00200	"	0.100	ND	94.6	70-130	10.6	20	
Naphthalene	0.0886	0.00380	"	0.100	ND	88.6	70-130	0.855	20	
Toluene	0.0900	0.00200	"	0.100	ND	90.0	70-130	6.60	20	
o-Xylene	0.0906	0.00200	"	0.100	ND	90.6	70-130	10.8	20	
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.5	70-130	11.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		116	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1233 - EPA 5030 (soil)</b>										
<b>Blank (B3G1233-BLK1)</b>					Prepared: 07/12/2023 Analyzed: 07/12/2023					
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	107		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.8		70-130			

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Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1233 - EPA 5030 (soil)										
LCS (B3G1233-BS1)					Prepared: 07/12/2023 Analyzed: 07/12/2023					
1,2,4-Trimethylbenzene	0.0998	0.00200	mg/kg	0.100		99.8	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0996	0.00200	"	0.100		99.6	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.0980	0.00200	"	0.100		98.0	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1233 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3G1233-MS1)</b>		<b>Source: Y307234-21</b>			Prepared: 07/12/2023 Analyzed: 07/13/2023					
1,2,4-Trimethylbenzene	0.527	0.00200	mg/kg	0.100	0.623	NR	70-130			QM-07
1,3,5-Trimethylbenzene	0.499	0.00200	"	0.100	0.578	NR	70-130			QM-07
Benzene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
Ethylbenzene	0.123	0.00200	"	0.100	0.0911	31.8	70-130			QM-07
Naphthalene	0.117	0.00380	"	0.100	0.0315	85.3	70-130			
Toluene	0.0885	0.00200	"	0.100	0.00114	87.4	70-130			
o-Xylene	0.0791	0.00200	"	0.100	0.000840	78.2	70-130			
m,p-Xylene	0.323	0.00400	"	0.200	0.331	NR	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.17		"	0.125		138	70-130			S-GC
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.2	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1233 - EPA 5030 (soil)										
Matrix Spike Dup (B3G1233-MSD1)			Source: Y307234-21		Prepared: 07/12/2023 Analyzed: 07/12/2023					
1,2,4-Trimethylbenzene	0.266	0.00200	mg/kg	0.100	0.623	NR	70-130	65.6	20	QM-07
1,3,5-Trimethylbenzene	0.254	0.00200	"	0.100	0.578	NR	70-130	65.1	20	QM-07
Benzene	0.0745	0.00200	"	0.100	ND	74.5	70-130	11.1	20	
Ethylbenzene	0.104	0.00200	"	0.100	0.0911	13.3	70-130	16.3	20	QM-07
Naphthalene	0.120	0.00380	"	0.100	0.0315	88.5	70-130	2.70	20	
Toluene	0.0787	0.00200	"	0.100	0.00114	77.6	70-130	11.7	20	
o-Xylene	0.0775	0.00200	"	0.100	0.000840	76.7	70-130	1.94	20	
m,p-Xylene	0.249	0.00400	"	0.200	0.331	NR	70-130	26.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.9	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1227 - EPA 3050B

##### Blank (B3G1227-BLK1)

Prepared: 07/12/2023 Analyzed: 07/13/2023

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

##### LCS (B3G1227-BS1)

Prepared: 07/12/2023 Analyzed: 07/13/2023

Arsenic	0.0530	0.000100	mg/kg	0.0500	106	80-120
Barium	5.28	0.0100	"	5.00	106	80-120
Cadmium	0.0510	0.000100	"	0.0500	102	80-120
Copper	0.551	0.0100	"	0.500	110	80-120
Lead	0.0502	0.0100	"	0.0500	100	80-120
Nickel	0.0548	0.0100	"	0.0500	110	80-120
Selenium	0.0485	0.000100	"	0.0500	97.1	80-120
Silver	0.0514	0.000100	"	0.0500	103	80-120
Zinc	0.533	0.100	"	0.500	107	80-120

##### Matrix Spike (B3G1227-MS1)

Source: Y307234-01

Prepared: 07/12/2023 Analyzed: 07/13/2023

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1227 - EPA 3050B

Matrix Spike (B3G1227-MS1)		Source: Y307234-01			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Arsenic	7.70	0.0918	mg/kg	4.59	5.05	57.7	75-125			QM-07
Barium	479	9.18	"	459	155	70.6	75-125			QM-07
Cadmium	3.66	0.0918	"	4.59	0.188	75.7	75-125			
Copper	51.1	9.18	"	45.9	16.6	75.1	75-125			
Lead	11.3	9.18	"	4.59	9.63	36.9	75-125			
Nickel	15.6	9.18	"	4.59	14.1	33.5	75-125			
Selenium	3.67	0.0918	"	4.59	0.0547	78.8	75-125			
Silver	3.62	0.0918	"	4.59	0.0356	78.0	75-125			
Zinc	72.1	91.8	"	45.9	46.3	56.1	75-125			

Matrix Spike Dup (B3G1227-MSD1)		Source: Y307234-01			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Arsenic	9.76	0.0947	mg/kg	4.74	5.05	99.3	75-125	23.6	20	QM-02
Barium	610	9.47	"	474	155	96.1	75-125	24.1	20	QM-02
Cadmium	4.75	0.0947	"	4.74	0.188	96.3	75-125	25.8	20	QM-02
Copper	63.5	9.47	"	47.4	16.6	99.0	75-125	21.7	20	
Lead	14.5	9.47	"	4.74	9.63	102	75-125	24.2	20	
Nickel	20.8	9.47	"	4.74	14.1	141	75-125	28.1	20	
Selenium	4.22	0.0947	"	4.74	0.0547	87.9	75-125	13.9	20	
Silver	4.65	0.0947	"	4.74	0.0356	97.3	75-125	24.9	20	
Zinc	91.0	94.7	"	47.4	46.3	94.3	75-125	23.2	20	

#### Batch B3G1229 - EPA 3050B

Blank (B3G1229-BLK1)		Prepared: 07/12/2023 Analyzed: 07/13/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## 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 B3G1229 - EPA 3050B

##### Blank (B3G1229-BLK1)

Prepared: 07/12/2023 Analyzed: 07/13/2023

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

##### LCS (B3G1229-BS1)

Prepared: 07/12/2023 Analyzed: 07/13/2023

Arsenic	0.0543	0.000100	mg/kg	0.0500	109	80-120
Barium	5.16	0.0100	"	5.00	103	80-120
Cadmium	0.0507	0.000100	"	0.0500	101	80-120
Copper	0.563	0.0100	"	0.500	113	80-120
Lead	0.0490	0.0100	"	0.0500	97.9	80-120
Nickel	0.0518	0.0100	"	0.0500	104	80-120
Selenium	0.0471	0.000100	"	0.0500	94.1	80-120
Silver	0.0513	0.000100	"	0.0500	103	80-120
Zinc	0.540	0.100	"	0.500	108	80-120

##### Matrix Spike (B3G1229-MS1)

Source: Y307234-21

Prepared: 07/12/2023 Analyzed: 07/13/2023

Arsenic	10.8	0.0993	mg/kg	4.97	4.91	119	75-125
Barium	666	9.93	"	497	209	92.0	75-125
Cadmium	5.11	0.0993	"	4.97	0.183	99.1	75-125
Copper	58.5	9.93	"	49.7	7.71	102	75-125
Lead	11.9	9.93	"	4.97	5.95	120	75-125
Nickel	14.8	9.93	"	4.97	8.99	118	75-125
Selenium	4.56	0.0993	"	4.97	0.0935	89.9	75-125
Silver	4.94	0.0993	"	4.97	0.0224	99.0	75-125

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Project: KMG - Megan H16-33 O SA

## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G1229 - EPA 3050B										
<b>Matrix Spike (B3G1229-MS1)</b>		<b>Source: Y307234-21</b>			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Zinc	84.3	99.3	mg/kg	49.7	29.3	111	75-125			
<b>Matrix Spike Dup (B3G1229-MSD1)</b>		<b>Source: Y307234-21</b>			Prepared: 07/12/2023 Analyzed: 07/13/2023					
Arsenic	9.66	0.0967	mg/kg	4.83	4.91	98.3	75-125	11.5	20	
Barium	639	9.67	"	483	209	89.1	75-125	4.02	20	
Cadmium	4.71	0.0967	"	4.83	0.183	93.6	75-125	8.14	20	
Copper	54.7	9.67	"	48.3	7.71	97.2	75-125	6.72	20	
Lead	11.4	9.67	"	4.83	5.95	113	75-125	3.99	20	
Nickel	14.8	9.67	"	4.83	8.99	119	75-125	0.506	20	
Selenium	4.16	0.0967	"	4.83	0.0935	84.2	75-125	9.04	20	
Silver	4.65	0.0967	"	4.83	0.0224	95.7	75-125	6.08	20	
Zinc	80.1	96.7	"	48.3	29.3	105	75-125	5.14	20	

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 - Megan H16-33 O SA

## 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 B3G1311 - Saturated Paste Metals

##### Blank (B3G1311-BLK1)

Prepared: 07/13/2023 Analyzed: 07/14/2023

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

##### Duplicate (B3G1311-DUP1)

Source: Y307231-02

Prepared: 07/13/2023 Analyzed: 07/14/2023

Calcium PPM	3.55	10.0	mg/L	3.25	8.82	50
SAR	0.00		SAR	0.270	200	200
Magnesium PPM	1.06	10.0	mg/L	1.08	1.87	50
Sodium PPM	2.40	10.0	"	2.20	8.70	50

#### Batch B3G1312 - Saturated Paste Metals

##### Blank (B3G1312-BLK1)

Prepared: 07/13/2023 Analyzed: 07/14/2023

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

##### Duplicate (B3G1312-DUP1)

Source: Y307234-04

Prepared: 07/13/2023 Analyzed: 07/14/2023

Calcium PPM	7.60	10.0	mg/L	7.54	0.793	50
SAR	0.00		SAR	1.44	200	200
Magnesium PPM	39.6	10.0	mg/L	38.3	3.42	50
Sodium PPM	44.6	10.0	"	43.9	1.38	50

#### Batch B3G1313 - Saturated Paste Metals

##### Blank (B3G1313-BLK1)

Prepared: 07/13/2023 Analyzed: 07/14/2023

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1313 - Saturated Paste Metals</b>										
<b>Blank (B3G1313-BLK1)</b>					Prepared: 07/13/2023 Analyzed: 07/14/2023					
Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B3G1313-DUP1)</b>					<b>Source: Y307234-24</b>		Prepared: 07/13/2023 Analyzed: 07/14/2023			
Calcium PPM	11.8	10.0	mg/L		7.65			42.6	50	
SAR	0.00		SAR		5.29			200	200	
Magnesium PPM	16.8	10.0	mg/L		13.9			19.0	50	
Sodium PPM	129	10.0	"		106			19.7	50	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G1317 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3G1317-DUP1)</b>		<b>Source: Y307231-02</b>			Prepared: 07/13/2023 Analyzed: 07/14/2023					
pH	7.26		pH Units		7.44			2.45	25	
<b>Batch B3G1318 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3G1318-DUP1)</b>		<b>Source: Y307234-04</b>			Prepared: 07/13/2023 Analyzed: 07/14/2023					
pH	8.52		pH Units		8.57			0.585	25	
<b>Batch B3G1319 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3G1319-DUP1)</b>		<b>Source: Y307234-24</b>			Prepared: 07/13/2023 Analyzed: 07/14/2023					
pH	8.57		pH Units		8.68			1.28	25	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L693104 - 3550B**

MSD (L 99878-MSD-L693104)		Source: Y307234-17			Prepared: 07/17/2023 Analyzed: 07/18/2023					
Pyrene	0.115	0.00067	mg/Kg	0.167	<0.000643	68.8	30-130	5.9	30	
1-Methylnaphthalene	0.093	0.00201	"	0.167	<0.00109	55.6	30-130	3.7	30	
2-Methylnaphthalene	0.0928	0.00201	"	0.167	<0.00194	55.5	30-130	2.9	30	
Acenaphthene	0.0999	0.00067	"	0.167	<0.000304	59.8	30-130	4.9	30	
Chrysene	0.104	0.00067	"	0.167	<0.000624	62.2	30-130	8.2	30	
Fluoranthene	0.111	0.00067	"	0.167	<0.000394	66.4	30-130	6.1	30	
Fluorene	0.11	0.00067	"	0.167	<0.000286	65.8	30-130	8.6	30	
Naphthalene	0.0889	0.00201	"	0.167	<0.00145	53.2	30-130	4.2	30	
Surrogate: 2-Fluorobiphenyl	50.7		"	0.333	194	50.7	33-115			
Surrogate: 4-Terphenyl-d14	64.5		"	0.333	238	64.5	33-122			
Surrogate: Nitrobenzene-d5	50.4		"	0.333	190	50.4	29-110			

MS (L 99878-MS-L693104)		Source: Y307234-17			Prepared: 07/17/2023 Analyzed: 07/18/2023					
Pyrene	0.122	0.00067	mg/Kg	0.164	<0.000643	74.3	30-130			
2-Methylnaphthalene	0.0956	0.00201	"	0.164	<0.00194	58.2	30-130			
Acenaphthene	0.105	0.00067	"	0.164	<0.000304	64	30-130			
Chrysene	0.113	0.00067	"	0.164	<0.000624	68.9	30-130			
Fluoranthene	0.118	0.00067	"	0.164	<0.000394	71.9	30-130			
Fluorene	0.12	0.00067	"	0.164	<0.000286	73.1	30-130			
Naphthalene	0.0928	0.00201	"	0.164	<0.00145	56.5	30-130			
1-Methylnaphthalene	0.0966	0.00201	"	0.164	<0.00109	58.9	30-130			
Surrogate: 2-Fluorobiphenyl	53		"	0.328	194	53	33-115			
Surrogate: 4-Terphenyl-d14	68.9		"	0.328	238	68.9	33-122			
Surrogate: Nitrobenzene-d5	53		"	0.328	190	53	29-110			

LCS (LCS-L693104)		Prepared: 07/17/2023 Analyzed: 07/18/2023								
1-Methylnaphthalene	0.0979	0.00201	mg/Kg	0.167		58.6	30-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L693104 - 3550B**

**LCS (LCS-L693104)**

Prepared: 07/17/2023 Analyzed: 07/18/2023

Pyrene	0.126	0.00067	mg/Kg	0.167		75.4	30-130			
2-Methylnaphthalene	0.0966	0.00201	"	0.167		57.8	30-130			
Acenaphthene	0.105	0.00067	"	0.167		62.8	30-130			
Chrysene	0.118	0.00067	"	0.167		70.6	30-130			
Fluoranthene	0.122	0.00067	"	0.167		73	30-130			
Fluorene	0.121	0.00067	"	0.167		72.4	30-130			
Naphthalene	0.0945	0.00201	"	0.167		56.5	30-130			

Surrogate: 2-Fluorobiphenyl	60		"	0.333	60	33-115				
Surrogate: 4-Terphenyl-d14	77.4		"	0.333	77.4	33-122				
Surrogate: Nitrobenzene-d5	56.7		"	0.333	56.7	29-110				

**LRB (LRB-L693104)**

Prepared: 07/17/2023 Analyzed: 07/18/2023

Pyrene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Chrysene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	72.3		"	0.333	72.3	33-122				
Surrogate: Nitrobenzene-d5	55.2		"	0.333	55.2	29-110				
Surrogate: 2-Fluorobiphenyl	58.5		"	0.333	58.5	33-115				

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L692961 - 3550B**

MSD (L 99852-MSD-L692961)		Source: 99852			Prepared: 07/17/2023 Analyzed: 07/17/2023					
Fluoranthene	0.098	0.00067	mg/Kg	0.162	0.00154	59.5	30-130	9.7	30	
Naphthalene	0.0684	0.00201	"	0.162	<0.00145	42.2	30-130	25.1	30	
Fluorene	0.0947	0.00067	"	0.162	<0.000286	58.4	30-130	31.4	30	*
Chrysene	0.0877	0.00067	"	0.162	0.0017	53	30-130	26	30	
Acenaphthene	0.0816	0.00067	"	0.162	<0.000304	50.3	30-130	28.7	30	
2-Methylnaphthalene	0.0716	0.00201	"	0.162	<0.00194	44.1	30-130	25.7	30	
1-Methylnaphthalene	0.0731	0.00201	"	0.162	<0.00109	45.1	30-130	32	30	*
Pyrene	0.0899	0.00067	"	0.162	0.00147	54.5	30-130	9.7	30	
Surrogate: Nitrobenzene-d5	46.1		"	0.325	144	46.1	29-110			
Surrogate: 2-Fluorobiphenyl	48.9		"	0.325	177	48.9	33-115			
Surrogate: 4-Terphenyl-d14	59.3		"	0.325	182	59.3	33-122			

MS (L 99852-MS-L692961)		Source: 99852			Prepared: 07/17/2023 Analyzed: 07/17/2023					
2-Methylnaphthalene	0.0928	0.00201	mg/Kg	0.164	<0.00194	56.5	30-130			
Pyrene	0.0991	0.00067	"	0.164	0.00147	59.5	30-130			
Naphthalene	0.0881	0.00201	"	0.164	<0.00145	53.7	30-130			
Fluorene	0.13	0.00067	"	0.164	<0.000286	79.2	30-130			
Fluoranthene	0.108	0.00067	"	0.164	0.00154	64.9	30-130			
Chrysene	0.114	0.00067	"	0.164	0.0017	68.4	30-130			
1-Methylnaphthalene	0.101	0.00201	"	0.164	<0.00109	61.5	30-130			
Acenaphthene	0.109	0.00067	"	0.164	<0.000304	66.4	30-130			
Surrogate: 2-Fluorobiphenyl	70.5		"	0.329	177	70.5	33-115			
Surrogate: 4-Terphenyl-d14	71.4		"	0.329	182	71.4	33-122			
Surrogate: Nitrobenzene-d5	58		"	0.329	144	58	29-110			

LCS (LCS-L692961)		Prepared: 07/17/2023 Analyzed: 07/17/2023								
Pyrene	0.117	0.00067	mg/Kg	0.167		70	30-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L692961 - 3550B</b>										
<b>LCS (LCS-L692961)</b>					Prepared: 07/17/2023 Analyzed: 07/17/2023					
2-Methylnaphthalene	0.0976	0.00201	mg/Kg	0.167		58.4	30-130			
Acenaphthene	0.11	0.00067	"	0.167		65.8	30-130			
Chrysene	0.132	0.00067	"	0.167		79	30-130			
Fluoranthene	0.126	0.00067	"	0.167		75.4	30-130			
Fluorene	0.139	0.00067	"	0.167		83.2	30-130			
1-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Naphthalene	0.0953	0.00201	"	0.167		57	30-130			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			
<b>LRB (LRB-L692961)</b>					Prepared: 07/17/2023 Analyzed: 07/17/2023					
1-Methylnaphthalene	ND	0.00201	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: Nitrobenzene-d5	38.7		"	0.333		38.7	29-110			
Surrogate: 4-Terphenyl-d14	48.6		"	0.333		48.6	33-122			
Surrogate: 2-Fluorobiphenyl	43.5		"	0.333		43.5	33-115			

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8000 W 44th Ave  
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H16-33 O SA

### Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- J Estimated Value. Analyte below reported quantitation limit.
- \* QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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September 18, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H 16-33 O SA received by Origins Laboratory, Inc. September 11, 2023. This project is associated with Origins project number Y309178-01.

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  
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Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Megan H 16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-B21-01@20'	Y309178-01	Soil	September 11, 2023 8:30	09/11/2023 15:41
PW-B22-01@20'	Y309178-02	Soil	September 11, 2023 8:32	09/11/2023 15:41
PW-B24-01@20'	Y309178-03	Soil	September 11, 2023 8:34	09/11/2023 15:41
PW-N10@14'	Y309178-04	Soil	September 11, 2023 8:36	09/11/2023 15:41
PW-N10@19'	Y309178-05	Soil	September 11, 2023 9:38	09/11/2023 15:41
PW-N11@12'	Y309178-06	Soil	September 11, 2023 8:40	09/11/2023 15:41
PW-N11@19'	Y309178-07	Soil	September 11, 2023 8:42	09/11/2023 15:41
PW-N12@12'	Y309178-08	Soil	September 11, 2023 8:44	09/11/2023 15:41
PW-N12@19'	Y309178-09	Soil	September 11, 2023 8:46	09/11/2023 15:41
PW-W08@10'	Y309178-10	Soil	September 11, 2023 8:48	09/11/2023 15:41
PW-W08@15'	Y309178-11	Soil	September 11, 2023 8:50	09/11/2023 15:41
PW-W09@10'	Y309178-12	Soil	September 11, 2023 8:52	09/11/2023 15:41
PW-W09@15'	Y309178-13	Soil	September 11, 2023 8:54	09/11/2023 15:41
PW-W10@10'	Y309178-14	Soil	September 11, 2023 8:56	09/11/2023 15:41

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 - Megan H 16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-W10@15'	Y309178-15	Soil	September 11, 2023 8:58	09/11/2023 15:41
PW-W11@10'	Y309178-16	Soil	September 11, 2023 9:00	09/11/2023 15:41
PW-W11@15'	Y309178-17	Soil	September 11, 2023 9:02	09/11/2023 15:41
PW-BG07@8'	Y309178-18	Soil	September 11, 2023 9:04	09/11/2023 15:41
PW-BG07@14'	Y309178-19	Soil	September 11, 2023 9:06	09/11/2023 15:41
PW-BG07@20'	Y309178-20	Soil	September 11, 2023 9:08	09/11/2023 15:41
PW-BG08@8'	Y309178-21	Soil	September 11, 2023 9:10	09/11/2023 15:41
PW-BG08@14'	Y309178-22	Soil	September 11, 2023 9:12	09/11/2023 15:41
PW-BG08@20'	Y309178-23	Soil	September 11, 2023 9:14	09/11/2023 15:41
PW-BG09@8'	Y309178-24	Soil	September 11, 2023 9:45	09/11/2023 15:41
PW-BG09@14'	Y309178-25	Soil	September 11, 2023 9:47	09/11/2023 15:41
PW-BG09@20'	Y309178-26	Soil	September 11, 2023 9:49	09/11/2023 15:41

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

**ORIGINS**  
LABORATORY, INC

4309178

www.originslaboratory.com

page 1 of 3

Client: Eagle Environmental (DXY)

Address: 8000 W 44th Ave

Wheat Ridge, CO 80033

Telephone Number: 303-433-0479

Email Address: dcoloccia@eagle-environ.com

Project Manager: D. Coloccia

Project Name: Megan H 16-33 O SA

Project Number: -

Samples Collected By: CB/BL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other			
PW-B21-01020'	9/11/23	0830	3	X								X	BTEX, N, TMT, PH, SAR, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	
PW-B22-01020'		0832										X	BTEX, N, TMT, PH, SAR, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	
PW-B24-01020'		0834										X	BTEX, N, TMT, PH, SAR, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	
PW-N100214'		0836										X	BTEX, N, TMT, PH, SAR, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	
PW-N100219'		0838										X	BTEX, N, TMT, PH, SAR, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	
PW-N110212'		0840										X	BTEX, N, TMT, PH, SAR, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	
PW-N110219'		0842										X	BTEX, N, TMT, PH, SAR, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	
PW-N120212'		0844										X	BTEX, N, TMT, PH, SAR, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	
PW-N120219'		0846										X	BTEX, N, TMT, PH, SAR, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	
PW-W080210'		0848										X	BTEX, N, TMT, PH, SAR, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	
Relinquished By: Chris Belski	Date: 9/11/23	Time: 1541												
Received By: EHS	Date: 9/11/23	Time: 1541												
Temp Received: 9.1														
Date Results Needed														

Origins Laboratory, Inc.

*Jen Pellegrini*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

**ORIGINS**  
LABORATORY, INC

Client: Eagle Environmental (oxy)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia  
Project Name: Megan H 16-33 O SA  
Project Number: —  
Samples Collected By: CB/BL

4309178  
Impacted  
www.originslaboratory.com  
page 3 of 3

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions				
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	pH		SAR	Asesic	Barium	Series
PW-BG0808'	9/11/12	0910	3	X					X				X	X	X	X	1
PW-BG0808'		0912															2
PW-BG0808'		0914															3
PW-BG0808'		0945															4
PW-BG0808'		0947															5
PW-BG0808'		0949															6
																	7
																	8
																	9
																	10

Relinquished By: Chris T. Davis Date: 9/11/12 Time: 1541  
Received By: CHS Date: 9/11/12 Time: 1541

Temp Received: 4, 1 Date Results Needed

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

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4309178

Client: Eagle  
Client Project ID: Megan H 16-33

Checklist Completed by: EHS

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

Date/time completed: 9/11/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 9.1 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C (Describe)

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		/		SD
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

[Signature]  
Reviewed by (Project Manager)

9/11/23  
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 - Megan H 16-33 O SA

**PW-B21-01@20'**

**9/11/2023 8:30:00AM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309178-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I1123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 89.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I1121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "  
Surrogate: Toluene-d8 97.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 89.5 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	2.02	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	3.07	0.823	"	"	"	KAP	"	"	
Sodium	12.0	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-B21-01@20'

9/11/2023 8:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-01 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B31125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	98.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	125 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.3 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.29	pH Units	1	B311211	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	7.50	0.0100	SAR	1	B311208	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-B21-01@20'

9/11/2023 8:30:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-01 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	5.02	0.0923	mg/kg	10	B3I1124	CIH	09/11/2023	09/13/2023
Barium	70.3	9.23	"	"	"	CIH	"	"
Cadmium	0.255	0.0923	"	"	"	CIH	"	"
Selenium	0.254	0.0923	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-B22-01@20'

9/11/2023 8:32:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309178-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I1123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 82.7 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I1121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "  
Surrogate: Toluene-d8 97.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.4 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	2.03	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	3.18	0.823	"	"	"	KAP	"	"	
Sodium	4.84	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-B22-01@20'

9/11/2023 8:32:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-02 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I1125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	119 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.31	pH Units	1	B3I1211	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	3.00	0.0100	SAR	1	B3I1208	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-B22-01@20'

9/11/2023 8:32:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-02 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	5.86	0.0895	mg/kg	10	B3I1124	CIH	09/11/2023	09/13/2023
Barium	98.0	8.95	"	"	"	CIH	"	"
Cadmium	0.152	0.0895	"	"	"	CIH	"	"
Selenium	0.269	0.0895	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-B24-01@20'

9/11/2023 8:34:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-03 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B311123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 81.1 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B311121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	0.00412	0.00200	"	"	"	JSM	"	"	
Ethylbenzene	0.00280	0.00200	"	"	"	JSM	"	"	
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "  
Surrogate: Toluene-d8 97.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.6 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.511	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	1.01	0.823	"	"	"	KAP	"	"	
Sodium	6.20	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-B24-01@20'

9/11/2023 8:34:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-03 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	109 %	60-130	"	"	"
Surrogate: Anthracene-d10	117 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.50	pH Units	1	B3I1211	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	7.11	0.0100	SAR	1	B3I1208	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-B24-01@20'

9/11/2023 8:34:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-03 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.89	0.0965	mg/kg	10	B3I1124	CIH	09/11/2023	09/13/2023
Barium	69.6	9.65	"	"	"	CIH	"	"
Cadmium	0.241	0.0965	"	"	"	CIH	"	"
Selenium	0.205	0.0965	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-N10@14'

9/11/2023 8:36:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309178-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I1123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 80.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I1121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "  
Surrogate: Toluene-d8 96.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 89.6 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	1.43	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	2.21	0.823	"	"	"	KAP	"	"	
Sodium	0.501	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-N10@14'

9/11/2023 8:36:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-04 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I1125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	82.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	109 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	122 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.27	pH Units	1	B3I1211	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	0.371	0.0100	SAR	1	B3I1208	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-N10@14'

9/11/2023 8:36:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-04 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	6.03	0.0857	mg/kg	10	B3I1124	CIH	09/11/2023	09/13/2023
Barium	121	8.57	"	"	"	CIH	"	"
Cadmium	0.123	0.0857	"	"	"	CIH	"	"
Selenium	0.120	0.0857	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-N10@19'

9/11/2023 9:38:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-05 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I1123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 89.9 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I1121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "  
Surrogate: Toluene-d8 96.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.1 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.758	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	1.33	0.823	"	"	"	KAP	"	"	
Sodium	3.46	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-N10@19'

9/11/2023 9:38:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-05 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I1125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	77.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	120 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	117 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.44	pH Units	1	B3I1211	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	3.38	0.0100	SAR	1	B3I1208	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-N10@19'

9/11/2023 9:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-05 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.89	0.0894	mg/kg	10	B3I1124	CIH	09/11/2023	09/13/2023
Barium	190	8.94	"	"	"	CIH	"	"
Cadmium	0.122	0.0894	"	"	"	CIH	"	"
Selenium	0.139	0.0894	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-N11@12'

9/11/2023 8:40:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-06 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I1123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 83.4 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I1121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	0.290	0.200	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "

Surrogate: Toluene-d8 96.8 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 89.4 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	2.02	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	2.56	0.823	"	"	"	KAP	"	"	
Sodium	0.654	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-N11@12'

9/11/2023 8:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-06 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I1125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	84.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	110 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	86.8 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.35	pH Units	1	B3I1211	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	0.433	0.0100	SAR	1	B3I1208	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-N11@12'

9/11/2023 8:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-06 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	7.10	0.0882	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023	
Barium	329	8.82	"	"	"	CIH	"	"	
Cadmium	0.137	0.0882	"	"	"	CIH	"	"	
Selenium	ND	0.0882	"	"	"	CIH	"	"	U

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 - Megan H 16-33 O SA

PW-N11@19'  
9/11/2023 8:42:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-07 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I1123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 91.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I1121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	1.27	0.200	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 96.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 95.7 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.768	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	1.23	0.823	"	"	"	KAP	"	"	
Sodium	3.69	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-N11@19'

9/11/2023 8:42:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-07 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I1125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	93.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	113 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.51	pH Units	1	B3I1211	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	3.69	0.0100	SAR	1	B3I1208	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-N11@19'

9/11/2023 8:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-07 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.22	0.0909	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023
Barium	107	9.09	"	"	"	CIH	"	"
Cadmium	0.164	0.0909	"	"	"	CIH	"	"
Selenium	0.0955	0.0909	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

## PW-N12@12'

9/11/2023 8:44:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-08 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I1123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 84.0 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I1121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	0.233	0.200	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "  
Surrogate: Toluene-d8 95.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 93.4 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.980	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	1.41	0.823	"	"	"	KAP	"	"	
Sodium	3.02	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

## PW-N12@12'

9/11/2023 8:44:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-08 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B31125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	96.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.40	pH Units	1	B311212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	2.77	0.0100	SAR	1	B311209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-N12@12'

9/11/2023 8:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-08 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.56	0.0895	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023	
Barium	256	8.95	"	"	"	CIH	"	"	
Cadmium	0.171	0.0895	"	"	"	CIH	"	"	
Selenium	ND	0.0895	"	"	"	CIH	"	"	U

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 - Megan H 16-33 O SA

PW-N12@19'

9/11/2023 8:46:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-09 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B311123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 82.2 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B311121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	0.00232	0.00200	"	"	"	JSM	"	"	
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	0.701	0.200	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "

Surrogate: Toluene-d8 96.4 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 92.2 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.582	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	0.881	0.823	"	"	"	KAP	"	"	
Sodium	4.11	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-N12@19'

9/11/2023 8:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309178-09 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B31125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	0.004	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	91.3 %	60-130			"	"	"
Surrogate: Anthracene-d10	110 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"	"	"
Surrogate: Pyrene-d10	114 %	60-130			"	"	"

**pH in Soil by 9045D**

pH	8.47	pH Units	1	B311212	HJD	09/12/2023	09/13/2023
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**SAR by 20B Saturated Paste**

SAR	4.81	0.0100	SAR	1	B311209	KAP	09/12/2023	09/13/2023
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**Table 915 metals by EPA 6020B**

Arsenic	5.12	0.0942	mg/kg	10	B311124	CIH	09/11/2023	09/12/2023
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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 - Megan H 16-33 O SA

PW-N12@19'

9/11/2023 8:46:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-09 (Soil)

## Table 915 metals by EPA 6020B

Barium	228	9.42	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023
Cadmium	0.177	0.0942	"	"	"	CIH	"	"
Selenium	0.111	0.0942	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-W08@10'

9/11/2023 8:48:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-10 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I1123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 84.5 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I1121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "  
Surrogate: Toluene-d8 94.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 89.6 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.881	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	2.75	0.823	"	"	"	KAP	"	"	
Sodium	1.44	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-W08@10'

9/11/2023 8:48:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-10 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B31125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	90.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"
Surrogate: Pyrene-d10	115 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.37	pH Units	1	B311212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	1.07	0.0100	SAR	1	B311209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-W08@10'

9/11/2023 8:48:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-10 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.86	0.0951	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023
Barium	111	9.51	"	"	"	CIH	"	"
Cadmium	0.155	0.0951	"	"	"	CIH	"	"
Selenium	0.115	0.0951	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-W08@15'

9/11/2023 8:50:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-11 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I1123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 90.6 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I1121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 96.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 88.3 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.672	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	2.37	0.823	"	"	"	KAP	"	"	
Sodium	2.42	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

## PW-W08@15'

9/11/2023 8:50:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-11 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I1125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	90.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.9 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.44	pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	1.96	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-W08@15'

9/11/2023 8:50:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-11 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	3.13	0.0899	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023	
Barium	97.3	8.99	"	"	"	CIH	"	"	
Cadmium	0.145	0.0899	"	"	"	CIH	"	"	
Selenium	ND	0.0899	"	"	"	CIH	"	"	U

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-W09@10'

9/11/2023 8:52:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-12 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3I1123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 83.1 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3I1121	JSM	09/11/2023	09/11/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "  
Surrogate: Toluene-d8 99.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 88.7 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.902	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	3.10	0.823	"	"	"	KAP	"	"	
Sodium	3.30	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-W09@10'

9/11/2023 8:52:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-12 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I1125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	89.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"
Surrogate: Pyrene-d10	107 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.41	pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	2.33	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-W09@10'

9/11/2023 8:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-12 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	5.06	0.0936	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023
Barium	126	9.36	"	"	"	CIH	"	"
Cadmium	0.167	0.0936	"	"	"	CIH	"	"
Selenium	0.118	0.0936	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-W09@15'

9/11/2023 8:54:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-13 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B311123	ZZZ	09/11/2023	09/11/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 85.4 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B311121	JSM	09/11/2023	09/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "  
Surrogate: Toluene-d8 99.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 87.9 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	6.57	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

## PW-W09@15'

9/11/2023 8:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-13 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B31125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	0.003	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	93.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.57	pH Units	1	B311212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	9.13	0.0100	SAR	1	B311209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.39	0.0955	mg/kg	10	B311124	CIH	09/11/2023	09/12/2023
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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 - Megan H 16-33 O SA

PW-W09@15'

9/11/2023 8:54:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-13 (Soil)

## Table 915 metals by EPA 6020B

Barium	75.0	9.55	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023
Cadmium	0.184	0.0955	"	"	"	CIH	"	"
Selenium	0.116	0.0955	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

## PW-W10@10'

9/11/2023 8:56:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-14 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B311123	ZZZ	09/11/2023	09/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 86.2 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B311121	JSM	09/11/2023	09/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "  
Surrogate: Toluene-d8 97.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.7 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	1.58	0.823	"	"	"	KAP	"	"	
Sodium	6.96	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

## PW-W10@10'

9/11/2023 8:56:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-14 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I1125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	87.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	115 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.57	pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	6.99	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-W10@10'

9/11/2023 8:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-14 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	5.25	0.0962	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023	
Barium	367	9.62	"	"	"	CIH	"	"	
Cadmium	0.197	0.0962	"	"	"	CIH	"	"	
Selenium	ND	0.0962	"	"	"	CIH	"	"	U

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 - Megan H 16-33 O SA

## PW-W10@15'

9/11/2023 8:58:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-15 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B311123	ZZZ	09/11/2023	09/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 98.6 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B311121	JSM	09/11/2023	09/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 96.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 93.2 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	1.12	0.823	"	"	"	KAP	"	"	
Sodium	7.84	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

## PW-W10@15'

9/11/2023 8:58:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-15 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B31125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	89.0 %	60-130			"	"	"	
Surrogate: Anthracene-d10	107 %	60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.8 %	60-130			"	"	"	
Surrogate: Pyrene-d10	134 %	60-130			"	"	"	S-07

### pH in Soil by 9045D

pH	8.53		pH Units	1	B311212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	8.82	0.0100	SAR	1	B311209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-W10@15'

9/11/2023 8:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-15 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.08	0.0929	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023
Barium	697	9.29	"	"	"	CIH	"	"
Cadmium	0.185	0.0929	"	"	"	CIH	"	"
Selenium	0.143	0.0929	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-W11@10'

9/11/2023 9:00:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-16 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B311123	ZZZ	09/11/2023	09/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 83.2 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B311121	JSM	09/11/2023	09/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.0 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	2.78	0.823	"	"	"	KAP	"	"	
Sodium	5.46	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-W11@10'

9/11/2023 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-16 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I1125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	92.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	113 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.55	pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	4.28	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-W11@10'

9/11/2023 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-16 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	5.27	0.0872	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023
Barium	151	8.72	"	"	"	CIH	"	"
Cadmium	0.160	0.0872	"	"	"	CIH	"	"
Selenium	0.118	0.0872	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-W11@15'

9/11/2023 9:02:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309178-17 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B311123	ZZZ	09/11/2023	09/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 84.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B311121	JSM	09/11/2023	09/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 97.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 91.1 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023	
Magnesium	1.08	0.823	"	"	"	KAP	"	"	
Sodium	7.29	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-W11@15'

9/11/2023 9:02:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-17 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I125	agile	09/11/2023	09/12/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	93.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	111 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.7 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.58	pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	8.43	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-W11@15'

9/11/2023 9:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-17 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.90	0.0922	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023	
Barium	445	9.22	"	"	"	CIH	"	"	
Cadmium	0.160	0.0922	"	"	"	CIH	"	"	
Selenium	ND	0.0922	"	"	"	CIH	"	"	U

Origins Laboratory, Inc.



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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-BG07@8'

9/11/2023 9:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-18 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.782	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023
Magnesium	3.79	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.44		pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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## SAR by 20B Saturated Paste

SAR	0.226	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.91	0.0868	mg/kg	10	B3I1124	CIH	09/11/2023	09/12/2023
Barium	124	8.68	"	"	"	CIH	"	"
Cadmium	0.154	0.0868	"	"	"	CIH	"	"
Selenium	0.0981	0.0868	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-BG07@14'

9/11/2023 9:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-19 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	0.801	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023
Magnesium	1.96	0.823	"	"	"	KAP	"	"
Sodium	1.14	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.40		pH Units	1	B311212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	0.973	0.0100	SAR	1	B311209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.58	0.0873	mg/kg	10	B311124	CIH	09/11/2023	09/12/2023
Barium	71.7	8.73	"	"	"	CIH	"	"
Cadmium	0.100	0.0873	"	"	"	CIH	"	"
Selenium	ND	0.0873	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-BG07@20'

9/11/2023 9:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-20 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.93	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023
Magnesium	2.49	0.823	"	"	"	KAP	"	"
Sodium	5.94	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.39		pH Units	1	B311212	HJD	09/12/2023	09/13/2023
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## SAR by 20B Saturated Paste

SAR	4.00	0.0100	SAR	1	B311209	KAP	09/12/2023	09/13/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.37	0.0834	mg/kg	10	B311124	CIH	09/11/2023	09/12/2023
Barium	49.8	8.34	"	"	"	CIH	"	"
Cadmium	0.248	0.0834	"	"	"	CIH	"	"
Selenium	0.308	0.0834	"	"	"	CIH	"	"

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**PW-BG08@8'**

**9/11/2023 9:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309178-21 (Soil)**

## Metals by Saturated Paste by EPA 6010

Calcium	6.19	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023
Magnesium	18.9	0.823	"	"	"	KAP	"	"
Sodium	30.4	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.22		pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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## SAR by 20B Saturated Paste

SAR	8.59	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.74	0.0942	mg/kg	10	B3I1216	CIH	09/12/2023	09/12/2023
Barium	155	9.42	"	"	"	CIH	"	"
Cadmium	0.164	0.0942	"	"	"	CIH	"	"
Selenium	0.142	0.0942	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-BG08@14'

9/11/2023 9:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-22 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	4.55	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023
Magnesium	9.99	0.823	"	"	"	KAP	"	"
Sodium	22.7	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.26		pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	8.42	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.94	0.0942	mg/kg	10	B3I1216	CIH	09/12/2023	09/12/2023
Barium	81.1	9.42	"	"	"	CIH	"	"
Cadmium	0.159	0.0942	"	"	"	CIH	"	"
Selenium	0.110	0.0942	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-BG08@20'

9/11/2023 9:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-23 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	4.04	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023
Magnesium	6.24	0.823	"	"	"	KAP	"	"
Sodium	20.0	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.32		pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	8.84	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.49	0.0927	mg/kg	10	B3I1216	CIH	09/12/2023	09/12/2023
Barium	550	9.27	"	"	"	CIH	"	"
Cadmium	0.297	0.0927	"	"	"	CIH	"	"
Selenium	0.185	0.0927	"	"	"	CIH	"	"

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-BG09@8'

9/11/2023 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-24 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.534	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023
Magnesium	1.67	0.823	"	"	"	KAP	"	"
Sodium	6.49	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.56		pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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## SAR by 20B Saturated Paste

SAR	6.18	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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## Table 915 metals by EPA 6020B

Arsenic	6.03	0.0928	mg/kg	10	B3I1225	CIH	09/12/2023	09/14/2023
Barium	232	9.28	"	"	"	CIH	"	"
Cadmium	0.143	0.0928	"	"	"	CIH	"	"
Selenium	ND	0.0928	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-BG09@14'

9/11/2023 9:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y309178-25 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	2.06	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023
Magnesium	2.95	0.823	"	"	"	KAP	"	"
Sodium	11.7	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.35		pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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### SAR by 20B Saturated Paste

SAR	7.42	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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### Table 915 metals by EPA 6020B

Arsenic	5.34	0.0876	mg/kg	10	B3I1225	CIH	09/12/2023	09/14/2023
Barium	109	8.76	"	"	"	CIH	"	"
Cadmium	0.174	0.0876	"	"	"	CIH	"	"
Selenium	0.130	0.0876	"	"	"	CIH	"	"

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-BG09@20'

9/11/2023 9:49:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y309178-26 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	1.56	0.499	meq/L	10	[CALC]	KAP	09/12/2023	09/13/2023
Magnesium	2.08	0.823	"	"	"	KAP	"	"
Sodium	9.19	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	8.43		pH Units	1	B3I1212	HJD	09/12/2023	09/13/2023
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## SAR by 20B Saturated Paste

SAR	6.81	0.0100	SAR	1	B3I1209	KAP	09/12/2023	09/13/2023
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## Table 915 metals by EPA 6020B

Arsenic	5.10	0.0939	mg/kg	10	B3I1225	CIH	09/12/2023	09/14/2023
Barium	107	9.39	"	"	"	CIH	"	"
Cadmium	0.206	0.0939	"	"	"	CIH	"	"
Selenium	0.211	0.0939	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

## 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 B3I1121 - EPA 5030 (soil)										
Blank (B3I1121-BLK1)					Prepared: 09/11/2023 Analyzed: 09/11/2023					
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		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	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 - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3I1121 - EPA 5030 (soil)</b>										
<b>LCS (B3I1121-BS1)</b>					Prepared: 09/11/2023 Analyzed: 09/11/2023					
1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	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 - Megan H 16-33 O SA

**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 B3I1121 - EPA 5030 (soil)**

Matrix Spike (B3I1121-MS1)		Source: Y309178-01			Prepared: 09/11/2023 Analyzed: 09/11/2023					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.0946	0.00200	"	0.100	ND	94.6	70-130			
Naphthalene	0.114	0.00380	"	0.100	ND	114	70-130			
Toluene	0.0980	0.00200	"	0.100	ND	98.0	70-130			
o-Xylene	0.0936	0.00200	"	0.100	ND	93.6	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3I1121 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3I1121-MSD1)</b>	<b>Source: Y309178-01</b>				Prepared: 09/11/2023 Analyzed: 09/11/2023					
1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	ND	113	70-130	8.98	20	
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130	9.55	20	
Benzene	0.114	0.00200	"	0.100	ND	114	70-130	8.70	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	13.0	20	
Naphthalene	0.123	0.00380	"	0.100	ND	123	70-130	7.12	20	
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	9.06	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	10.1	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	10.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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 - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3I1123 - EPA 3550B</b>										
<b>Blank (B3I1123-BLK1)</b>					Prepared: 09/11/2023 Analyzed: 09/11/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.4	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 - Megan H 16-33 O SA

## 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 B3I1123 - EPA 3550B

#### LCS (B3I1123-BS1)

Prepared: 09/11/2023 Analyzed: 09/11/2023

Diesel (C10-C28)	738	50.0	mg/kg	1000		73.8	70-130			
Residual Range Organics (C28-C40)	877	200	"	1000		87.7	70-130			
Surrogate: o-Terphenyl	42		"	49.8		85.0	50-150			

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 - Megan H 16-33 O SA

**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 B3I1123 - EPA 3550B**

Matrix Spike (B3I1123-MS1)		Source: Y309178-01			Prepared: 09/11/2023 Analyzed: 09/11/2023					
Diesel (C10-C28)	772	50.0	mg/kg	1000	ND	77.2	70-130			
Residual Range Organics (C28-C40)	956	200	"	1000	ND	95.6	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.3	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 - Megan H 16-33 O SA

## 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 B3I1123 - EPA 3550B

Matrix Spike Dup (B3I1123-MSD1)		Source: Y309178-01			Prepared: 09/11/2023 Analyzed: 09/11/2023					
Diesel (C10-C28)	770	50.0	mg/kg	1000	ND	77.0	70-130	0.216	35	
Residual Range Organics (C28-C40)	943	200	"	1000	ND	94.3	70-130	1.38	35	
Surrogate: o-Terphenyl	40		"	49.8		81.3	50-150			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3I1124 - EPA 3050B**

**Blank (B3I1124-BLK1)**

Prepared: 09/11/2023 Analyzed: 09/13/2023

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

**LCS (B3I1124-BS1)**

Prepared: 09/11/2023 Analyzed: 09/13/2023

Arsenic	0.0482	0.000100	mg/kg	0.0500		96.4	80-120
Barium	4.87	0.0100	"	5.00		97.3	80-120
Cadmium	0.0490	0.000100	"	0.0500		98.0	80-120
Copper	0.517	0.0100	"	0.500		103	80-120
Lead	0.0481	0.0100	"	0.0500		96.2	80-120
Nickel	0.0489	0.0100	"	0.0500		97.8	80-120
Selenium	0.0529	0.000100	"	0.0500		106	80-120
Silver	0.0508	0.000100	"	0.0500		102	80-120
Zinc	0.488	0.100	"	0.500		97.7	80-120

**Matrix Spike (B3I1124-MS1)**

**Source: Y309178-01**

Prepared: 09/11/2023 Analyzed: 09/13/2023

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3I1124 - EPA 3050B

Matrix Spike (B3I1124-MS1)		Source: Y309178-01			Prepared: 09/11/2023 Analyzed: 09/13/2023					
Arsenic	9.63	0.0918	mg/kg	4.59	5.02	100	75-125			
Barium	593	9.18	"	459	70.3	114	75-125			
Cadmium	4.78	0.0918	"	4.59	0.255	98.6	75-125			
Copper	52.0	9.18	"	45.9	10.7	90.0	75-125			
Lead	15.2	9.18	"	4.59	11.5	82.3	75-125			
Nickel	17.2	9.18	"	4.59	13.5	81.1	75-125			
Selenium	4.71	0.0918	"	4.59	0.254	97.2	75-125			
Silver	4.63	0.0918	"	4.59	0.0166	101	75-125			
Zinc	90.4	91.8	"	45.9	47.7	93.3	75-125			U

Matrix Spike Dup (B3I1124-MSD1)		Source: Y309178-01			Prepared: 09/11/2023 Analyzed: 09/13/2023					
Arsenic	9.22	0.0918	mg/kg	4.59	5.02	91.4	75-125	4.40	20	
Barium	563	9.18	"	459	70.3	107	75-125	5.15	20	
Cadmium	4.85	0.0918	"	4.59	0.255	100	75-125	1.54	20	
Copper	50.6	9.18	"	45.9	10.7	87.1	75-125	2.59	20	
Lead	15.8	9.18	"	4.59	11.5	94.3	75-125	3.56	20	
Nickel	17.6	9.18	"	4.59	13.5	88.6	75-125	1.98	20	
Selenium	4.65	0.0918	"	4.59	0.254	95.8	75-125	1.34	20	
Silver	4.67	0.0918	"	4.59	0.0166	101	75-125	0.846	20	
Zinc	89.1	91.8	"	45.9	47.7	90.3	75-125	1.48	20	U

#### Batch B3I1216 - EPA 3050B

Blank (B3I1216-BLK1)		Prepared: 09/12/2023 Analyzed: 09/12/2023								
Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3I1216 - EPA 3050B</b>										
<b>Blank (B3I1216-BLK1)</b>					Prepared: 09/12/2023 Analyzed: 09/12/2023					
Copper	ND	0.0100	mg/kg							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U
<b>LCS (B3I1216-BS1)</b>					Prepared: 09/12/2023 Analyzed: 09/12/2023					
Arsenic	0.0460	0.000100	mg/kg	0.0500		91.9	80-120			
Barium	4.60	0.0100	"	5.00		92.0	80-120			
Cadmium	0.0476	0.000100	"	0.0500		95.3	80-120			
Copper	0.520	0.0100	"	0.500		104	80-120			
Lead	0.0457	0.0100	"	0.0500		91.4	80-120			
Nickel	0.0469	0.0100	"	0.0500		93.7	80-120			
Selenium	0.0458	0.000100	"	0.0500		91.6	80-120			
Silver	0.0501	0.000100	"	0.0500		100	80-120			
Zinc	0.477	0.100	"	0.500		95.5	80-120			
<b>Matrix Spike (B3I1216-MS1)</b>					<b>Source: Y309180-01</b>		Prepared: 09/12/2023 Analyzed: 09/12/2023			
Arsenic	13.7	0.0933	mg/kg	4.67	10.8	62.8	75-125			QM-07
Barium	451	9.33	"	467	22.7	91.8	75-125			
Cadmium	4.58	0.0933	"	4.67	0.0535	97.1	75-125			
Copper	54.1	9.33	"	46.7	9.49	95.6	75-125			
Lead	15.0	9.33	"	4.67	11.5	73.0	75-125			QM-07
Nickel	13.5	9.33	"	4.67	10.5	64.7	75-125			QM-07
Selenium	4.33	0.0933	"	4.67	0.204	88.4	75-125			
Silver	4.70	0.0933	"	4.67	0.0255	100	75-125			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3I1216 - EPA 3050B

<b>Matrix Spike (B3I1216-MS1)</b>		<b>Source: Y309180-01</b>			Prepared: 09/12/2023 Analyzed: 09/12/2023					
Zinc	88.5	93.3	mg/kg	46.7	49.3	84.1	75-125			U
<b>Matrix Spike Dup (B3I1216-MSD1)</b>		<b>Source: Y309180-01</b>			Prepared: 09/12/2023 Analyzed: 09/12/2023					
Arsenic	13.8	0.0952	mg/kg	4.76	10.8	63.5	75-125	0.680	20	QM-07
Barium	448	9.52	"	476	22.7	89.3	75-125	0.692	20	
Cadmium	4.56	0.0952	"	4.76	0.0535	94.7	75-125	0.436	20	
Copper	53.5	9.52	"	47.6	9.49	92.4	75-125	1.07	20	
Lead	14.5	9.52	"	4.76	11.5	61.1	75-125	3.39	20	QM-07
Nickel	13.4	9.52	"	4.76	10.5	61.4	75-125	0.704	20	QM-07
Selenium	4.59	0.0952	"	4.76	0.204	92.2	75-125	5.95	20	
Silver	4.79	0.0952	"	4.76	0.0255	100	75-125	1.88	20	
Zinc	87.1	95.2	"	47.6	49.3	79.4	75-125	1.62	20	U

#### Batch B3I1225 - EPA 3050B

<b>Blank (B3I1225-BLK1)</b>		Prepared: 09/12/2023 Analyzed: 09/14/2023								
Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

#### LCS (B3I1225-BS1)

Prepared: 09/12/2023 Analyzed: 09/14/2023

Arsenic	0.0517	0.000100	mg/kg	0.0500	103	80-120
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3I1225 - EPA 3050B

#### LCS (B3I1225-BS1)

Prepared: 09/12/2023 Analyzed: 09/14/2023

Barium	4.91	0.0100	"	5.00		98.3	80-120			
Cadmium	0.0493	0.000100	"	0.0500		98.6	80-120			
Copper	0.465	0.0100	"	0.500		93.1	80-120			
Lead	0.0495	0.0100	"	0.0500		99.1	80-120			
Nickel	0.0495	0.0100	"	0.0500		98.9	80-120			
Selenium	0.0419	0.000100	"	0.0500		83.8	80-120			
Silver	0.0453	0.000100	"	0.0500		90.5	80-120			
Zinc	0.486	0.100	"	0.500		97.1	80-120			

#### Matrix Spike (B3I1225-MS1)

Source: Y308643-03

Prepared: 09/12/2023 Analyzed: 09/14/2023

Arsenic	6.13	0.0958	mg/kg	4.79	1.29	101	75-125			
Barium	504	9.58	"	479	33.1	98.3	75-125			
Cadmium	4.88	0.0958	"	4.79	0.0553	101	75-125			
Copper	44.3	9.58	"	47.9	2.61	87.1	75-125			
Lead	7.48	9.58	"	4.79	3.27	87.9	75-125			U
Nickel	7.37	9.58	"	4.79	2.70	97.5	75-125			U
Selenium	4.26	0.0958	"	4.79	0.0589	87.7	75-125			
Silver	4.45	0.0958	"	4.79	0.0196	92.6	75-125			
Zinc	58.8	95.8	"	47.9	13.1	95.3	75-125			U

#### Matrix Spike Dup (B3I1225-MSD1)

Source: Y308643-03

Prepared: 09/12/2023 Analyzed: 09/14/2023

Arsenic	5.55	0.0878	mg/kg	4.39	1.29	96.9	75-125	10.1	20	
Barium	454	8.78	"	439	33.1	95.9	75-125	10.4	20	
Cadmium	4.31	0.0878	"	4.39	0.0553	96.9	75-125	12.4	20	
Copper	40.8	8.78	"	43.9	2.61	87.0	75-125	8.19	20	
Lead	7.28	8.78	"	4.39	3.27	91.3	75-125	2.78	20	U
Nickel	6.79	8.78	"	4.39	2.70	93.2	75-125	8.18	20	U

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3I1225 - EPA 3050B

Matrix Spike Dup (B3I1225-MSD1)			Source: Y308643-03			Prepared: 09/12/2023 Analyzed: 09/14/2023				
Selenium	3.83	0.0878	mg/kg	4.39	0.0589	85.9	75-125	10.7	20	
Silver	3.98	0.0878	"	4.39	0.0196	90.2	75-125	11.2	20	
Zinc	53.7	87.8	"	43.9	13.1	92.6	75-125	8.90	20	U

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 - Megan H 16-33 O SA

**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 B3I1125 - EPA 3580**

**Blank (B3I1125-BLK1)**

Prepared: 09/11/2023 Analyzed: 09/11/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	180		ug/kg	200		91.6	60-130			
Surrogate: Anthracene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		98.4	60-130			

**LCS (B3I1125-BS1)**

Prepared: 09/11/2023 Analyzed: 09/11/2023

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.6	70-130
2-Methylnaphthalene	0.181	0.002	"	0.200		90.3	70-130
Acenaphthene	0.176	0.020	"	0.200		87.9	70-130
Anthracene	0.206	0.020	"	0.200		103	70-130

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3I1125 - EPA 3580**

**LCS (B3I1125-BS1)**

Prepared: 09/11/2023 Analyzed: 09/11/2023

Benzo (a) anthracene	0.168	0.005	mg/kg	0.200		84.1	70-130
Benzo (a) pyrene	0.178	0.020	"	0.200		88.8	70-130
Benzo (b) fluoranthene	0.180	0.020	"	0.200		89.9	70-130
Benzo (g,h,i) perylene	0.227	0.020	"	0.200		113	70-130
Benzo (k) fluoranthene	0.177	0.020	"	0.200		88.4	70-130
Chrysene	0.171	0.020	"	0.200		85.5	70-130
Dibenz (a,h) anthracene	0.219	0.020	"	0.200		110	70-130
Fluoranthene	0.155	0.020	"	0.200		77.6	70-130
Fluorene	0.172	0.020	"	0.200		85.8	70-130
Indeno (1,2,3-cd) pyrene	0.181	0.020	"	0.200		90.5	70-130
Naphthalene	0.167	0.002	"	0.200		83.7	70-130
Phenanthrene	0.190	0.020	"	0.200		95.0	70-130
Pyrene	0.188	0.020	"	0.200		93.9	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130
Surrogate: Anthracene-d10	220		"	200		111	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130
Surrogate: Pyrene-d10	240		"	200		119	60-130

**Matrix Spike (B3I1125-MS1)**

Source: Y309136-01

Prepared: 09/11/2023 Analyzed: 09/11/2023

1-Methylnaphthalene	0.171	0.002	mg/kg	0.200	ND	85.4	70-130
2-Methylnaphthalene	0.175	0.002	"	0.200	0.001	86.9	70-130
Acenaphthene	0.192	0.020	"	0.200	0.0006	95.5	70-130
Anthracene	0.168	0.020	"	0.200	ND	83.8	70-130
Benzo (a) anthracene	0.171	0.005	"	0.200	0.0006	85.2	70-130
Benzo (a) pyrene	0.213	0.020	"	0.200	0.006	103	70-130
Benzo (b) fluoranthene	0.206	0.020	"	0.200	0.004	101	70-130
Benzo (g,h,i) perylene	0.201	0.020	"	0.200	0.002	99.5	70-130

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3I1125 - EPA 3580**

Matrix Spike (B3I1125-MS1)		Source: Y309136-01			Prepared: 09/11/2023 Analyzed: 09/11/2023					
Benzo (k) fluoranthene	0.177	0.020	mg/kg	0.200	ND	88.4	70-130			
Chrysene	0.179	0.020	"	0.200	0.0004	89.2	70-130			
Dibenz (a,h) anthracene	0.232	0.020	"	0.200	0.002	115	70-130			
Fluoranthene	0.183	0.020	"	0.200	0.0004	91.1	70-130			
Fluorene	0.163	0.020	"	0.200	ND	81.3	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	0.003	93.5	70-130			
Naphthalene	0.183	0.002	"	0.200	ND	91.7	70-130			
Phenanthrene	0.196	0.020	"	0.200	0.006	95.1	70-130			
Pyrene	0.163	0.020	"	0.200	ND	81.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	240		"	200		121	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130			
Surrogate: Pyrene-d10	190		"	200		93.6	60-130			

Matrix Spike Dup (B3I1125-MSD1)		Source: Y309136-01			Prepared: 09/11/2023 Analyzed: 09/11/2023					
1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	ND	101	70-130	16.9	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	0.001	91.6	70-130	5.26	20	
Acenaphthene	0.166	0.020	"	0.200	0.0006	82.9	70-130	14.1	20	
Anthracene	0.195	0.020	"	0.200	ND	97.3	70-130	14.9	20	
Benzo (a) anthracene	0.220	0.005	"	0.200	0.0006	110	70-130	25.1	20	QR-02
Benzo (a) pyrene	0.167	0.020	"	0.200	0.006	80.8	70-130	23.9	20	QR-02
Benzo (b) fluoranthene	0.187	0.020	"	0.200	0.004	91.4	70-130	9.93	20	
Benzo (g,h,i) perylene	0.224	0.020	"	0.200	0.002	111	70-130	11.2	20	
Benzo (k) fluoranthene	0.156	0.020	"	0.200	ND	78.2	70-130	12.2	20	
Chrysene	0.179	0.020	"	0.200	0.0004	89.1	70-130	0.115	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	0.002	107	70-130	7.32	20	
Fluoranthene	0.221	0.020	"	0.200	0.0004	110	70-130	19.0	20	

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 - Megan H 16-33 O SA

**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 B3I1125 - EPA 3580**

Matrix Spike Dup (B3I1125-MSD1)		Source: Y309136-01			Prepared: 09/11/2023 Analyzed: 09/11/2023					
Fluorene	0.153	0.020	mg/kg	0.200	ND	76.6	70-130	5.93	20	
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	0.003	92.3	70-130	1.27	20	
Naphthalene	0.190	0.002	"	0.200	ND	94.8	70-130	3.33	20	
Phenanthrene	0.184	0.020	"	0.200	0.006	88.8	70-130	6.65	20	
Pyrene	0.183	0.020	"	0.200	ND	91.3	70-130	11.2	20	
Surrogate: Fluorene-d10	170		ug/kg	200		85.0	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			

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 - Megan H 16-33 O SA

## 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 B3I1208 - Saturated Paste Metals

##### Blank (B3I1208-BLK1)

Prepared: 09/12/2023 Analyzed: 09/13/2023

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

##### Duplicate (B3I1208-DUP1)

Source: Y309175-01

Prepared: 09/12/2023 Analyzed: 09/13/2023

Calcium PPM	44.9	10.0	mg/L		49.3			9.49	50	
SAR	ND	0.0100	SAR		0.610				200	U
Magnesium PPM	13.0	10.0	mg/L		14.5			11.1	50	
Sodium PPM	17.1	10.0	"		19.0			10.1	50	

#### Batch B3I1209 - Saturated Paste Metals

##### Blank (B3I1209-BLK1)

Prepared: 09/12/2023 Analyzed: 09/13/2023

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

##### Duplicate (B3I1209-DUP1)

Source: Y309178-08

Prepared: 09/12/2023 Analyzed: 09/13/2023

Calcium PPM	19.8	10.0	mg/L		19.6			0.963	50	
SAR	ND	0.0100	SAR		2.77				200	U
Magnesium PPM	17.0	10.0	mg/L		17.1			0.410	50	
Sodium PPM	66.2	10.0	"		69.4			4.82	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 - Megan H 16-33 O SA

## 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 B3I1211 - Saturated Paste pH/EC

<b>Duplicate (B3I1211-DUP1)</b>		<b>Source: Y309175-01</b>		Prepared: 09/12/2023 Analyzed: 09/13/2023						
pH	7.88		pH Units		8.00			1.51	25	

### Batch B3I1212 - Saturated Paste pH/EC

<b>Duplicate (B3I1212-DUP1)</b>		<b>Source: Y309178-08</b>		Prepared: 09/12/2023 Analyzed: 09/13/2023						
pH	8.40		pH Units		8.40			0.00	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 - Megan H 16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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October 11, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H 16-33 O SA received by Origins Laboratory, Inc. October 02, 2023. This project is associated with Origins project number Y310048-01.

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 - Megan H 16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-S16@14'	Y310048-01	Soil	October 2, 2023 11:20	10/02/2023 17:15
PW-S16@19'	Y310048-02	Soil	October 2, 2023 11:22	10/02/2023 17:15
PW-S17@14'	Y310048-03	Soil	October 2, 2023 11:24	10/02/2023 17:15
PW-S17@19'	Y310048-04	Soil	October 2, 2023 11:26	10/02/2023 17:15
PW-S18@14'	Y310048-05	Soil	October 2, 2023 11:28	10/02/2023 17:15
PW-S18@19'	Y310048-06	Soil	October 2, 2023 11:30	10/02/2023 17:15
PW-S19@14'	Y310048-07	Soil	October 2, 2023 11:32	10/02/2023 17:15
PW-S19@19'	Y310048-08	Soil	October 2, 2023 11:34	10/02/2023 17:15
PW-S20@14'	Y310048-09	Soil	October 2, 2023 11:36	10/02/2023 17:15
PW-S20@19'	Y310048-10	Soil	October 2, 2023 11:38	10/02/2023 17:15
PW-N13@12'	Y310048-11	Soil	October 2, 2023 11:40	10/02/2023 17:15
PW-N14@14'	Y310048-12	Soil	October 2, 2023 11:42	10/02/2023 17:15
PW-N15@14'	Y310048-13	Soil	October 2, 2023 11:44	10/02/2023 17:15
PW-W12@10'	Y310048-14	Soil	October 2, 2023 15:30	10/02/2023 17:15

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 - Megan H 16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-W12@15'	Y310048-15	Soil	October 2, 2023 15:32	10/02/2023 17:15

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 - Megan H 16-33 O SA

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4310048

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page 1 of 7

ORIGINS  
LABORATORY, INC

Client: Eagle Environmental (Oxy)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-6479  
Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia  
Project Name: Megan H 16-33 O SA  
Project Number: -  
Samples Collected By: AR

Sample ID Description	Date Sampled	Time Sampled	Preservative				Matrix	Analysis				Sample Instructions
			Unpreserved	HCl	HNO <sub>3</sub>	Other		PAH	1/2 - 1/4" - 1/2"	1/2" - 1/4"	Other	
PW-S16E14'	10-2-23	1120	X				X	X	X	X	X	PAHs run for: 1
PW-S16E19'		1122										acetylene
PW-S17E14'		1124										chrysene
PW-S17E19'		1126										fluoranthene
PW-S18E14'		1128										fluorene
PW-S18E19'		1130										pyrene
PW-S19E14'		1132										Metals run for: 7
PW-S19E19'		1134										arsenic, cadmium
PW-S20E14'		1136										barium, selenium
PW-S20E19'		1138										

Relinquished By: *Let Rnd* Date: 10-2-23 Time: 11:38  
Relinquished By: *Let Rnd* Date: 10-2-23 Time: 11:38

Received By: *Let Rnd* Date: 10-2-23 Time: 11:38  
Received By: *Let Rnd* Date: 10-2-23 Time: 11:38

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

Date Results Needed

Temp Received: 5

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 - Megan H 16-33 O SA

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V3100 46

page 2 of 2

Impacted

**ORIGINS**  
LABORATORY, INC

Client: Eagle Environmental (OSY)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-6479  
Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia  
Project Name: Megan H 16-33 O SA  
Project Number: --  
Samples Collected By: AR

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis					Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	TPHs	PH	SAR	1,2-Methy		PAH *
PW-N13E12'	10-7-23	1140	3	X					X			X	X	X	X	X	*PAH run for
PW-N14E14'		1142	1														acenaphthene
PW-N15E14'		1144	1														chrysene
PW-N17E10'		1530	3	X					X			X	X	X	X	X	fluoranthene
PW-N17E15'		1532	3	X					X			X	X	X	X	X	fluorene
																	pyrene
																	Metals *
																	arsenic, cadmium
																	barium, selenium

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
W. Leg	10-7-23	1145	W. Leg	10/2/23	1145	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

Temp Received: 5

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 - Megan H 16-33 O SA

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: 4310046

Client: Eagle

Client Project ID: Megan H 16-33

Checklist Completed by: EH5

Shipped Via: H/D

Date/time completed: 10/2/23

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

Airbill #: N/A

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 115 °C

1 °C

1 °C

1 °C

Thermometer ID: 7004

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

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

Eagle  
Reviewed by (Project Manager)

10/2/23  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jen Pellegrini*

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 - Megan H 16-33 O SA

PW-S16@14'

10/2/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/02/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-S16@14'

10/2/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

### Y310048-01 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	2.73	0.823	"	"	"	"	"
Sodium	3.79	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	97.2 %	60-130	"	"	"
Surrogate: nthracene-d10	112 %	60-130	"	"	"
Surrogate: yrene-d10	88.9 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	93.1 %	60-130	"	"	"

### pH in Soil by 9045D

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 - Megan H 16-33 O SA

PW-S16@14'

10/2/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-01 (Soil)

## pH in Soil by 9045D

pH	8.53			pH Units	1	B3J0314	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	3.06		0.0100	SAR	1	B3J0310	10/03/2023	10/04/2023	
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## Total Metals by 6020B

Arsenic	3.79	0.0855	0.25	mg/Kg	5	L708884	10/05/2023	10/07/2023	
Barium	65	0.042	0.25	"	"	"	"	10/09/2023	
Cadmium	0.118	0.026	0.25	"	"	"	"	10/07/2023	J
Selenium	0.299	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

PW-S16@19'

10/2/2023 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/02/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-S16@19'

10/2/2023 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-02 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	0.628	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	2.60	0.823	"	"	"	"	"
Sodium	5.07	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	95.2 %	60-130	"	"	"
Surrogate: nthracene-d10	127 %	60-130	"	"	"
Surrogate: yrene-d10	98.6 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	87.7 %	60-130	"	"	"

**pH in Soil by 9045D**

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 - Megan H 16-33 O SA

PW-S16@19'

10/2/2023 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-02 (Soil)

## pH in Soil by 9045D

pH	8.52			pH Units	1	B3J0314	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	3.99		0.0100	SAR	1	B3J0310	10/03/2023	10/04/2023	
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## Total Metals by 6020B

Arsenic	4.82	0.0855	0.25	mg/Kg	5	L708884	10/05/2023	10/07/2023	
Barium	451	0.042	0.25	"	"	"	"	10/09/2023	
Cadmium	0.225	0.026	0.25	"	"	"	"	10/07/2023	J
Selenium	0.39	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

PW-S17@14'

10/2/2023 11:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.8 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-S17@14'

10/2/2023 11:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310048-03 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	1.90	0.823	"	"	"	"	"
Sodium	3.18	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	97.1 %	60-130	"	"	"
Surrogate: nthracene-d10	117 %	60-130	"	"	"
Surrogate: yrene-d10	86.8 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	92.1 %	60-130	"	"	"

### pH in Soil by 9045D

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 - Megan H 16-33 O SA

PW-S17@14'

10/2/2023 11:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-03 (Soil)

## pH in Soil by 9045D

pH	8.72			pH Units	1	B3J0314	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	3.03		0.0100	SAR	1	B3J0310	10/03/2023	10/04/2023	
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## Total Metals by 6020 B

Arsenic	1.91	0.428	1.25	mg/Kg	25	L708975	10/05/2023	10/10/2023	
Barium	151	0.042	0.25	"	5	"	"	"	
Cadmium	0.137	0.026	0.25	"	"	"	"	"	J
Selenium	ND	0.515	1.25	"	25	"	"	"	

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 - Megan H 16-33 O SA

PW-S17@19'

10/2/2023 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.8 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 98.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-S17@19'

10/2/2023 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310048-04 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	1.21	0.823	"	"	"	"	"
Sodium	4.81	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	97.6 %	60-130	"	"	"
Surrogate: nthracene-d10	104 %	60-130	"	"	"
Surrogate: yrene-d10	86.2 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	101 %	60-130	"	"	"

### pH in Soil by 9045D

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 - Megan H 16-33 O SA

PW-S17@19'

10/2/2023 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-04 (Soil)**

**pH in Soil by 9045D**

pH	8.68			pH Units	1	B3J0314	10/03/2023	10/04/2023	
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**SAR by 20B Saturated Paste**

SAR	5.43		0.0100	SAR	1	B3J0310	10/03/2023	10/04/2023	
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**Total Metals by 6020 B**

Arsenic	2.79	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/10/2023	
Barium	80.4	0.042	0.25	"	"	"	"	"	
Cadmium	0.159	0.026	0.25	"	"	"	"	"	J
Selenium	0.517	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

PW-S18@14'

10/2/2023 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-05 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.0 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

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 - Megan H 16-33 O SA

PW-S18@14'

10/2/2023 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310048-05 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	1.09	0.823	"	"	"	"	"
Sodium	5.43	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	99.9 %	60-130	"	"	"
Surrogate: nthracene-d10	124 %	60-130	"	"	"
Surrogate: yrene-d10	94.3 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	87.0 %	60-130	"	"	"

### pH in Soil by 9045D

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 - Megan H 16-33 O SA

PW-S18@14'

10/2/2023 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-05 (Soil)

## pH in Soil by 9045D

pH	8.77			pH Units	1	B3J0314	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	6.74		0.0100	SAR	1	B3J0310	10/03/2023	10/04/2023	
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## Total Metals by 6020 B

Arsenic	2.15	0.428	1.25	mg/Kg	25	L708975	10/05/2023	10/10/2023	
Barium	115	0.042	0.25	"	5	"	"	"	
Cadmium	0.16	0.026	0.25	"	"	"	"	"	J
Selenium	0.547	0.515	1.25	"	25	"	"	"	J

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 - Megan H 16-33 O SA

PW-S18@19'

10/2/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-06 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 97.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-S18@19'

10/2/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310048-06 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	0.885	0.823	"	"	"	"	"
Sodium	5.56	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	97.4 %	60-130	"	"	"
Surrogate: nthracene-d10	112 %	60-130	"	"	"
Surrogate: yrene-d10	89.3 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	92.6 %	60-130	"	"	"

### pH in Soil by 9045D

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 - Megan H 16-33 O SA

PW-S18@19'

10/2/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-06 (Soil)

## pH in Soil by 9045D

pH	8.73			pH Units	1	B3J0314	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	7.43		0.0100	SAR	1	B3J0310	10/03/2023	10/04/2023	
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## Total Metals by 6020 B

Arsenic	3.56	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/08/2023	
Barium	452	0.042	0.25	"	"	"	"	"	
Cadmium	0.183	0.026	0.25	"	"	"	"	"	J
Selenium	0.548	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

PW-S19@14'

10/2/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-07 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.9 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

## Metals by Saturated Paste by EPA 6010

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 - Megan H 16-33 O SA

PW-S19@14'

10/2/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310048-07 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	2.03	0.823	"	"	"	"	"
Sodium	6.02	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	94.6 %	60-130	"	"	"
Surrogate: nthracene-d10	129 %	60-130	"	"	"
Surrogate: yrene-d10	95.2 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	87.6 %	60-130	"	"	"

### pH in Soil by 9045D

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 - Megan H 16-33 O SA

PW-S19@14'

10/2/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-07 (Soil)

## pH in Soil by 9045D

pH	8.55			pH Units	1	B3J0314	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	5.54		0.0100	SAR	1	B3J0310	10/03/2023	10/04/2023	
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## Total Metals by 6020 B

Arsenic	3.48	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/08/2023	
Barium	242	0.042	0.25	"	"	"	"	"	
Cadmium	0.197	0.026	0.25	"	"	"	"	"	J
Selenium	0.543	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

PW-S19@19'

10/2/2023 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-08 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.7 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-S19@19'

10/2/2023 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310048-08 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	4.86	0.823	"	"	"	"	"
Sodium	2.21	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	97.4 %	60-130	"	"	"
Surrogate: nthracene-d10	120 %	60-130	"	"	"
Surrogate: yrene-d10	92.7 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	87.5 %	60-130	"	"	"

### pH in Soil by 9045D

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 - Megan H 16-33 O SA

PW-S19@19'

10/2/2023 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-08 (Soil)**

**pH in Soil by 9045D**

pH	8.56			pH Units	1	B3J0314	10/03/2023	10/04/2023	
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**SAR by 20B Saturated Paste**

SAR	1.35		0.0100	SAR	1	B3J0310	10/03/2023	10/04/2023	
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**Total Metals by 6020 B**

Arsenic	4.67	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/08/2023	
Barium	721	0.042	0.25	"	"	"	"	"	
Cadmium	0.111	0.026	0.25	"	"	"	"	"	J
Selenium	0.581	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

PW-S20@14'

10/2/2023 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-09 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 86.1 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

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

## Metals by Saturated Paste by EPA 6010

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 - Megan H 16-33 O SA

PW-S20@14'

10/2/2023 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-09 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.10	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	5.75	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	94.6 %	60-130	"	"	"
Surrogate: nthracene-d10	129 %	60-130	"	"	"
Surrogate: yrene-d10	94.6 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	91.2 %	60-130	"	"	"

**pH in Soil by 9045D**

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 - Megan H 16-33 O SA

PW-S20@14'

10/2/2023 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-09 (Soil)

## pH in Soil by 9045D

pH	8.36			pH Units	1	B3J0314	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	0.188		0.0100	SAR	1	B3J0310	10/03/2023	10/04/2023	
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## Total Metals by 6020 B

Arsenic	3.94	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/08/2023	
Barium	334	0.042	0.25	"	"	"	"	"	
Cadmium	0.221	0.026	0.25	"	"	"	"	"	J
Selenium	0.514	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

PW-S20@19'

10/2/2023 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-10 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.2 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"	"	"	"

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-S20@19'

10/2/2023 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-10 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	2.58	0.823	"	"	"	"	"
Sodium	2.70	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/03/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	98.9 %	60-130	"	"	"
Surrogate: nthracene-d10	111 %	60-130	"	"	"
Surrogate: yrene-d10	93.9 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	91.5 %	60-130	"	"	"

**pH in Soil by 9045D**

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 - Megan H 16-33 O SA

PW-S20@19'

10/2/2023 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-10 (Soil)**

**pH in Soil by 9045D**

pH	8.49			pH Units	1	B3J0314	10/03/2023	10/04/2023	
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**SAR by 20B Saturated Paste**

SAR	2.18		0.0100	SAR	1	B3J0310	10/03/2023	10/04/2023	
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**Total Metals by 6020 B**

Arsenic	3.9	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/08/2023	
Barium	222	0.042	0.25	"	"	"	"	"	
Cadmium	0.159	0.026	0.25	"	"	"	"	"	J
Selenium	0.485	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

PW-N13@12'

10/2/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-11 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.2 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-N13@12'

10/2/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-11 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.78	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	1.99	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	96.4 %	60-130	"	"	"
Surrogate: nthracene-d10	121 %	60-130	"	"	"
Surrogate: yrene-d10	90.8 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	88.1 %	60-130	"	"	"

**pH in Soil by 9045D**

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 - Megan H 16-33 O SA

PW-N13@12'

10/2/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-11 (Soil)

## pH in Soil by 9045D

pH	8.31			pH Units	1	B3J0315	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	0.290		0.0100	SAR	1	B3J0311	10/03/2023	10/04/2023	
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## Total Metals by 6020 B

Arsenic	4.14	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/08/2023	
Barium	255	0.042	0.25	"	"	"	"	"	
Cadmium	0.183	0.026	0.25	"	"	"	"	"	J
Selenium	0.509	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

PW-N14@14'

10/2/2023 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-12 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.1 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"	"	"	"

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-N14@14'

10/2/2023 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-12 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.37	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	1.23	0.823	"	"	"	"	"
Sodium	0.676	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	94.8 %	60-130	"	"	"
Surrogate: nthracene-d10	134 %	60-130	"	"	S-07
Surrogate: yrene-d10	97.1 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	92.6 %	60-130	"	"	"

**pH in Soil by 9045D**

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 - Megan H 16-33 O SA

PW-N14@14'

10/2/2023 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-12 (Soil)

## pH in Soil by 9045D

pH	8.29			pH Units	1	B3J0315	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	0.593		0.0100	SAR	1	B3J0311	10/03/2023	10/04/2023	
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## Total Metals by 6020 B

Arsenic	3.07	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/08/2023	
Barium	157	0.042	0.25	"	"	"	"	"	
Cadmium	0.175	0.026	0.25	"	"	"	"	"	J
Selenium	0.528	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

PW-N15@14'

10/2/2023 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-13 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 89.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.4 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-N15@14'

10/2/2023 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-13 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.34	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	1.54	0.823	"	"	"	"	"
Sodium	1.03	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	97.2 %	60-130	"	"	"
Surrogate: nthracene-d10	96.4 %	60-130	"	"	"
Surrogate: yrene-d10	98.1 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	89.0 %	60-130	"	"	"

**pH in Soil by 9045D**

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 - Megan H 16-33 O SA

PW-N15@14'

10/2/2023 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-13 (Soil)

## pH in Soil by 9045D

pH	8.37			pH Units	1	B3J0315	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	0.860		0.0100	SAR	1	B3J0311	10/03/2023	10/04/2023	
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## Total Metals by 6020 B

Arsenic	2.56	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/08/2023	
Barium	125	0.042	0.25	"	"	"	"	"	
Cadmium	0.221	0.026	0.25	"	"	"	"	"	J
Selenium	0.551	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

**PW-W12@10'**

**10/2/2023 3:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-14 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 99.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.5 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-W12@10'

10/2/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-14 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.885	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	1.53	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	94.9 %	60-130	"	"	"
Surrogate: nthracene-d10	122 %	60-130	"	"	"
Surrogate: yrene-d10	95.4 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	89.2 %	60-130	"	"	"

## pH in Soil by 9045D

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 - Megan H 16-33 O SA

PW-W12@10'

10/2/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-14 (Soil)

## pH in Soil by 9045D

pH	8.42			pH Units	1	B3J0315	10/03/2023	10/04/2023	
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## SAR by 20B Saturated Paste

SAR	0.301		0.0100	SAR	1	B3J0311	10/03/2023	10/04/2023	
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## Total Metals by 6020 B

Arsenic	2.89	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/08/2023	
Barium	130	0.042	0.25	"	"	"	"	"	
Cadmium	0.16	0.026	0.25	"	"	"	"	"	J
Selenium	0.565	0.103	0.25	"	"	"	"	"	

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 - Megan H 16-33 O SA

**PW-W12@15'**

**10/2/2023 3:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310048-15 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J0230	10/02/2023	10/03/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 71.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J0231	"	10/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 99.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

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 - Megan H 16-33 O SA

PW-W12@15'

10/2/2023 3:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-15 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	3.43	0.499	meq/L	10	[CALC]	10/03/2023	10/04/2023
Magnesium	6.83	0.823	"	"	"	"	"
Sodium	17.4	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J0232	10/02/2023	10/04/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: luorene-d10	96.4 %	60-130	"	"	"
Surrogate: nthracene-d10	116 %	60-130	"	"	"
Surrogate: yrene-d10	95.9 %	60-130	"	"	"
Surrogate: Benzo a pyrene-d12	89.0 %	60-130	"	"	"

## pH in Soil by 9045D

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 - Megan H 16-33 O SA

PW-W12@15'

10/2/2023 3:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310048-15 (Soil)

## pH in Soil by 9045D

pH	8.17			pH Units	1	B3J0315	10/03/2023	10/04/2023
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## SAR by 20B Saturated Paste

SAR	7.68		0.0100	SAR	1	B3J0311	10/03/2023	10/04/2023
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## Total Metals by 6020 B

Arsenic	7	0.0855	0.25	mg/Kg	5	L708975	10/05/2023	10/08/2023
Barium	527	0.042	0.25	"	"	"	"	"
Cadmium	0.389	0.026	0.25	"	"	"	"	"
Selenium	0.797	0.103	0.25	"	"	"	"	"

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 - Megan H 16-33 O SA

## 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 B3 0230 - EPA 3550B										
Blank (B3 0230-BLK1)					Prepared: 10/02/2023 Analyzed: 10/02/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.0	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 - Megan H 16-33 O SA

## 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 B3 0230 - EPA 3550B										
LCS (B3 0230-BS1)					Prepared: 10/02/2023 Analyzed: 10/02/2023					
Diesel (C10-C28)	918	50.0	mg/kg	1000		91.8	70-130			
Residual Range Organics (C28-C40)	1200	200	"	1000		120	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.1	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3 0230 - EPA 3550B										
Matrix Spike (B3 0230-MS1)		Source: Y310048-01			Prepared: 10/02/2023 Analyzed: 10/03/2023					
Diesel (C10-C28)	857	50.0	mg/kg	1000	ND	85.7	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.8	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3 0230 - EPA 3550B										
Matrix Spike Dup (B3 0230-MSD1)		Source: Y310048-01			Prepared: 10/02/2023 Analyzed: 10/03/2023					
Diesel (C10-C28)	809	50.0	mg/kg	1000	ND	80.9	70-130	5.66	35	
Residual Range Organics (C28-C40)	943	200	"	1000	ND	94.3	70-130	13.7	35	
Surrogate: o-Terphenyl	40		"	49.8		79.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3 0231 - EPA 5030 (soil)										
Blank (B3 0231-BLK1)					Prepared: 10/02/2023 Analyzed: 10/02/2023					
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		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3 0231 - EPA 5030 (soil)</b>										
<b>LCS (B3 0231-BS1)</b>					Prepared: 10/02/2023 Analyzed: 10/02/2023					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.0987	0.00200	"	0.100		98.7	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.0956	0.00200	"	0.100		95.6	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.182	0.00400	"	0.200		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	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 - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3 0231 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3 0231-MS1)</b>		<b>Source: Y310048-01</b>			Prepared: 10/02/2023 Analyzed: 10/02/2023					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Benzene	0.0953	0.00200	"	0.100	ND	95.3	70-130			
Ethylbenzene	0.0980	0.00200	"	0.100	ND	98.0	70-130			
Naphthalene	0.105	0.00380	"	0.100	ND	105	70-130			
Toluene	0.0975	0.00200	"	0.100	ND	97.5	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	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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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3 0231 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3 0231-MSD1)</b>	<b>Source: Y310048-01</b>				Prepared: 10/02/2023 Analyzed: 10/02/2023					
1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100	ND	115	70-130	10.8	20	
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130	10.7	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	10.0	20	
Ethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130	13.6	20	
Naphthalene	0.116	0.00380	"	0.100	ND	116	70-130	10.4	20	
Toluene	0.108	0.00200	"	0.100	ND	108	70-130	9.89	20	
o-Xylene	0.116	0.00200	"	0.100	ND	116	70-130	12.4	20	
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130	11.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B3 0232 - EPA 3580

#### Blank (B3 0232-BLK1)

Prepared: 10/02/2023 Analyzed: 10/03/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: luorene-d10	200		ug/ g	200		99.5	60-130			
Surrogate: nthracene-d10	220		"	200		109	60-130			
Surrogate: yrene-d10	170		"	200		85.7	60-130			
Surrogate: Benzo a pyrene-d12	180		"	200		90.7	60-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3 0232 - EPA 3580**

**LCS (B3 0232-BS1)**

Prepared: 10/02/2023 Analyzed: 10/03/2023

1-Methylnaphthalene	0.213	0.002	mg/kg	0.200		107	70-130
2-Methylnaphthalene	0.210	0.002	"	0.200		105	70-130
Acenaphthene	0.205	0.020	"	0.200		103	70-130
Anthracene	0.196	0.020	"	0.200		97.9	70-130
Benzo (a) anthracene	0.203	0.005	"	0.200		102	70-130
Benzo (a) pyrene	0.217	0.020	"	0.200		108	70-130
Benzo (b) fluoranthene	0.191	0.020	"	0.200		95.4	70-130
Benzo (g,h,i) perylene	0.183	0.020	"	0.200		91.3	70-130
Benzo (k) fluoranthene	0.194	0.020	"	0.200		97.2	70-130
Chrysene	0.204	0.020	"	0.200		102	70-130
Dibenz (a,h) anthracene	0.191	0.020	"	0.200		95.5	70-130
Fluoranthene	0.189	0.020	"	0.200		94.6	70-130
Fluorene	0.205	0.020	"	0.200		102	70-130
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200		97.4	70-130
Naphthalene	0.211	0.002	"	0.200		105	70-130
Phenanthrene	0.210	0.020	"	0.200		105	70-130
Pyrene	0.239	0.020	"	0.200		120	70-130

Surrogate: luorene-d10	190		ug/ g	200		97.4	60-130
Surrogate: nthracene-d10	220		"	200		111	60-130
Surrogate: yrene-d10	230		"	200		117	60-130
Surrogate: Benzo a pyrene-d12	200		"	200		101	60-130

**Matrix Spike (B3 0232-MS1)**

**Source: Y310048-01**

Prepared: 10/02/2023 Analyzed: 10/03/2023

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130
2-Methylnaphthalene	0.199	0.002	"	0.200	ND	99.3	70-130
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130
Anthracene	0.216	0.020	"	0.200	ND	108	70-130

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3 0232 - EPA 3580**

Matrix Spike (B3 0232-MS1)		Source: Y310048-01			Prepared: 10/02/2023 Analyzed: 10/03/2023					
Benzo (a) anthracene	0.189	0.005	mg/kg	0.200	ND	94.5	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200	ND	107	70-130			
Benzo (b) fluoranthene	0.180	0.020	"	0.200	ND	89.9	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	ND	98.7	70-130			
Benzo (k) fluoranthene	0.213	0.020	"	0.200	ND	107	70-130			
Chrysene	0.211	0.020	"	0.200	ND	105	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	98.1	70-130			
Fluoranthene	0.174	0.020	"	0.200	ND	87.2	70-130			
Fluorene	0.198	0.020	"	0.200	ND	99.0	70-130			
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200	ND	108	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130			
Pyrene	0.254	0.020	"	0.200	ND	127	70-130			
Surrogate: luorene-d10	190		ug/ g	200		96.0	60-130			
Surrogate: nthracene-d10	200		"	200		98.9	60-130			
Surrogate: yrene-d10	240		"	200		119	60-130			
Surrogate: Benzo a pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B3 0232-MSD1)		Source: Y310048-01			Prepared: 10/02/2023 Analyzed: 10/03/2023					
1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	ND	104	70-130	3.82	20	
2-Methylnaphthalene	0.199	0.002	"	0.200	ND	99.5	70-130	0.210	20	
Acenaphthene	0.201	0.020	"	0.200	ND	100	70-130	2.05	20	
Anthracene	0.205	0.020	"	0.200	ND	102	70-130	5.40	20	
Benzo (a) anthracene	0.190	0.005	"	0.200	ND	95.1	70-130	0.613	20	
Benzo (a) pyrene	0.207	0.020	"	0.200	ND	104	70-130	3.26	20	
Benzo (b) fluoranthene	0.172	0.020	"	0.200	ND	86.0	70-130	4.44	20	
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	99.8	70-130	1.12	20	

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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
<b>Batch B3 0232 - EPA 3580</b>										
<b>Matrix Spike Dup (B3 0232-MSD1)</b>		<b>Source: Y310048-01</b>			Prepared: 10/02/2023 Analyzed: 10/03/2023					
Benzo (k) fluoranthene	0.174	0.020	mg/kg	0.200	ND	87.0	70-130	20.2	20	QR-02
Chrysene	0.206	0.020	"	0.200	ND	103	70-130	2.05	20	
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130	2.68	20	
Fluoranthene	0.172	0.020	"	0.200	ND	86.2	70-130	1.16	20	
Fluorene	0.193	0.020	"	0.200	ND	96.5	70-130	2.57	20	
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	ND	94.5	70-130	13.5	20	
Naphthalene	0.200	0.002	"	0.200	ND	100	70-130	0.732	20	
Phenanthrene	0.206	0.020	"	0.200	ND	103	70-130	1.24	20	
Pyrene	0.243	0.020	"	0.200	ND	121	70-130	4.55	20	
Surrogate: luorene-d10	190		ug/ g	200		96.2	60-130			
Surrogate: nthracene-d10	190		"	200		93.6	60-130			
Surrogate: yrene-d10	230		"	200		115	60-130			
Surrogate: Benzo a pyrene-d12	210		"	200		104	60-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3 0310 - Saturated Paste Metals

##### Blank (B3 0310-BLK1)

Prepared: 10/03/2023 Analyzed: 10/04/2023

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

##### Duplicate (B3 0310-DUP1)

Source: Y310045-03RE1

Prepared: 10/03/2023 Analyzed: 10/04/2023

Calcium PPM	189	10.0	mg/L		186			1.54	50	
SAR	ND	0.0100	SAR		10.6				200	U
Magnesium PPM	173	10.0	mg/L		176			1.56	50	
Sodium PPM	800	10.0	"		837			4.48	50	

#### Batch B3 0311 - Saturated Paste Metals

##### Blank (B3 0311-BLK1)

Prepared: 10/03/2023 Analyzed: 10/04/2023

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

##### Duplicate (B3 0311-DUP1)

Source: Y310048-11

Prepared: 10/03/2023 Analyzed: 10/04/2023

Calcium PPM	35.2	10.0	mg/L		35.7			1.38	50	
SAR	ND	0.0100	SAR		0.290				200	U
Magnesium PPM	25.0	10.0	mg/L		24.2			3.25	50	
Sodium PPM	9.68	10.0	"		9.16			5.52	50	U

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3 0314 - Saturated Paste pH/EC

Duplicate (B3 0314-DUP1)

Source: Y310045-03

Prepared: 10/03/2023 Analyzed: 10/04/2023

pH	7.83		pH Units	7.84		0.128	25
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### Batch B3 0315 - Saturated Paste pH/EC

Duplicate (B3 0315-DUP1)

Source: Y310048-11

Prepared: 10/03/2023 Analyzed: 10/04/2023

pH	8.13		pH Units	8.31		2.19	25
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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 - Megan H 16-33 O SA

## Total Metals by 6020 B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L708975 - 3050B</b>										
<b>MSD (L 98185-MSD-L708975)</b>			<b>Source: 98185</b>		Prepared: 10/05/2023 Analyzed: 10/08/2023					
Cadmium	0.524	0.25	mg/Kg	0.478	0.0405	101	75-125	4.2	80	
Selenium	4.34	0.25	"	4.78	0.699	76	75-125	4.5	80	
Arsenic	4.39	0.25	"	2.39	2.55	77	75-125	20.9	80	
Barium	71.5	0.25	"	4.78	66.1	113	75-125	21.1	80	
<b>MS (L 98185-MS-L708975)</b>			<b>Source: 98185</b>		Prepared: 10/05/2023 Analyzed: 10/08/2023					
Selenium	4.54	0.25	mg/Kg	4.88	0.699	79	75-125			
Cadmium	0.547	0.25	"	0.488	0.0405	104	75-125			
Arsenic	5.42	0.25	"	2.44	2.55	118	75-125			
Barium	88.4	0.25	"	4.88	66.1	457	75-125			
<b>LCS (LCS-L708975)</b>			Prepared: 10/05/2023 Analyzed: 10/08/2023							
Selenium	5.01	0.25	mg/Kg	5		100	80-120			
Cadmium	0.538	0.25	"	0.5		108	80-120			
Barium	4.96	0.25	"	5		99	80-120			
Arsenic	2.51	0.25	"	2.5		100	80-120			
<b>LRB (LRB-L708975)</b>			Prepared: 10/05/2023 Analyzed: 10/08/2023							
Selenium	ND	0.25	mg/Kg				-			
Cadmium	ND	0.25	"				-			
Barium	0.0422	0.25	"				-			
Arsenic	ND	0.25	"				-			

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 - Megan H 16-33 O SA

## Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L708884 - 3050B</b>										
<b>MSD (L 98165-MSD-L708884)</b>			<b>Source: Y310048-02</b>		Prepared: 10/05/2023 Analyzed: 10/09/2023					
Barium	128	0.25	mg/Kg	4.89	451	0	75-125	44.8	80	I
Cadmium	0.657	0.25	"	0.489	0.225	88	75-125	14	80	
Selenium	4.74	0.25	"	4.89	0.39	89	75-125	15.9	80	
Arsenic	5.62	0.25	"	2.44	4.82	33	75-125	8.7	80	
<b>MS (L 98165-MS-L708884)</b>			<b>Source: Y310048-02</b>		Prepared: 10/05/2023 Analyzed: 10/07/2023					
Selenium	4.04	0.25	mg/Kg	4.9	0.39	74	75-125			
Arsenic	5.15	0.25	"	2.45	4.82	13	75-125			
Barium	202	0.25	"	4.9	451	0	75-125			I
Cadmium	0.571	0.25	"	0.49	0.225	71	75-125			
<b>LCS (LCS-L708884)</b>			Prepared: 10/05/2023 Analyzed: 10/07/2023							
Selenium	4.37	0.25	mg/Kg	5		87	80-120			
Cadmium	0.466	0.25	"	0.5		93	80-120			
Barium	4.69	0.25	"	5		94	80-120			
Arsenic	2.17	0.25	"	2.5		87	80-120			
<b>LRB (LRB-L708884)</b>			Prepared: 10/05/2023 Analyzed: 10/07/2023							
Arsenic	ND	0.25	mg/Kg				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Selenium	ND	0.25	"				-			

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 - Megan H 16-33 O SA

## Notes and Definitions

U Sample is Non-Detect.

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

J Estimated value. Analyte below reported quantitation limit.

I [Undefined]

QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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November 01, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H 16-33 O SA received by Origins Laboratory, Inc. October 23, 2023. This project is associated with Origins project number Y310613-01.

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 - Megan H 16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-N16@14'	Y310613-01	Soil	October 23, 2023 9:00	10/23/2023 15:05
PW-N17@14'	Y310613-02	Soil	October 23, 2023 9:02	10/23/2023 15:05
PW-N18@12'	Y310613-03	Soil	October 23, 2023 9:04	10/23/2023 15:05
PW-N16@12'	Y310613-04	Soil	October 23, 2023 9:06	10/23/2023 15:05
PW-S21@14'	Y310613-05	Soil	October 23, 2023 9:08	10/23/2023 15:05
PW-S21@19'	Y310613-06	Soil	October 23, 2023 9:10	10/23/2023 15:05
PW-S22@14'	Y310613-07	Soil	October 23, 2023 9:12	10/23/2023 15:05
PW-S22@19'	Y310613-08	Soil	October 23, 2023 9:14	10/23/2023 15:05
PW-S23@14'	Y310613-09	Soil	October 23, 2023 9:16	10/23/2023 15:05
PW-S23@19'	Y310613-10	Soil	October 23, 2023 9:18	10/23/2023 15:05
PW-S24@19'	Y310613-11	Soil	October 23, 2023 9:20	10/23/2023 15:05
PW-S25@19'	Y310613-12	Soil	October 23, 2023 9:22	10/23/2023 15:05
PW-S26@19'	Y310613-13	Soil	October 23, 2023 9:24	10/23/2023 15:05
PW-W13@10'	Y310613-14	Soil	October 23, 2023 9:26	10/23/2023 15:05

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 - Megan H 16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-W13@15'	Y310613-15	Soil	October 23, 2023 9:28	10/23/2023 15:05
PW-W14@10'	Y310613-16	Soil	October 23, 2023 9:30	10/23/2023 15:05
PW-W14@15'	Y310613-17	Soil	October 23, 2023 9:32	10/23/2023 15:05
PW-W15@10'	Y310613-18	Soil	October 23, 2023 9:34	10/23/2023 15:05
PW-W15@15'	Y310613-19	Soil	October 23, 2023 9:36	10/23/2023 15:05

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 - Megan H 16-33 O SA

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

# ORIGINS

LABORATORY, INC

4310613

www.originslaboratory.com

Impacted

page 1 of 2

Client: Eagle Environmental (ovr)

Address: 8000 W 44th Ave

Wheat Ridge, CO 80033

Telephone Number: 303-433-0479

Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia

Project Name: Megan H 16-33 O SA

Project Number: —

Samples Collected By: CB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis												Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	STEX	TEX	TMB	TH	SAR	SA	SA	SA	SA	
PW-N16E14'	10/23/23	0900	3	X					X			X	X	X	X	X	X	X	X	X	
PW-N17E14'		0902																			
PW-N18E12'		0904																			
PW-N19E12'		0906																			
PW-S21E14'		0908																			
PW-S21E14'		0910																			
PW-S22E14'		0912																			
PW-S22E14'		0914																			
PW-S23E14'		0916																			
PW-S23E14'		0918																			
Relinquished By: <i>Chris Babin</i>	Date: 10/23/23	Time: 1505																			
Received By: <i>CB</i>	Date: 10/23/23	Time: 1505																			
Relinquished By:	Date:	Time:																			
Received By:	Date:	Time:																			
Turnaround Time:																					
Standard																					

Temp Received: 2,5

Date Results Needed

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
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**ORIGINS**  
LABORATORY, INC

4310613

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Impacted

page 2 of 2

Client: Eagle Environmental (oxy)

Project Manager: D. Coloccia

Address: 8000 W 44th Ave

Project Name: Megan H 16-33 O SA

Wheat Ridge, CO 80033

Project Number: —

Telephone Number: 303-433-0479

Samples Collected By: CB

Email Address: dcoloccia@eagle-enviro.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil			Air Summa Canister #	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
PW-S24E19'	10/23/23	0920	3	X					X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 43106B

Client: Eagle

Client Project ID: Megan H 16-33

Checklist Completed by: TSM

Shipped Via: HD

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

Date/time completed: 10/23/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.5 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 10/23/23

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 - Megan H 16-33 O SA

PW-N16@14'

10/23/2023 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 92.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "  
Surrogate: Toluene-d8 98.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	0.829	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	1.73	0.823	"	"	"	KAP	"	"	
Sodium	2.98	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-N16@14'

10/23/2023 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-01 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.6 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.34	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	2.63	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-N16@14'

10/23/2023 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-01 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	5.66	0.0931	mg/kg	10	B3J2335	CIH	10/23/2023	10/26/2023
Barium	161	9.31	"	"	"	CIH	"	"
Cadmium	0.176	0.0931	"	"	"	CIH	"	"
Selenium	ND	0.0931	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-N17@14'

10/23/2023 9:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 95.8 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "  
Surrogate: Toluene-d8 99.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	1.25	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	2.03	0.823	"	"	"	KAP	"	"	
Sodium	0.699	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-N17@14'

10/23/2023 9:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-02 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	95.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	122 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.8 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.31	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	0.546	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-N17@14'

10/23/2023 9:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-02 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	8.71	0.0886	mg/kg	10	B3J2335	CIH	10/23/2023	10/26/2023
Barium	178	8.86	"	"	"	CIH	"	"
Cadmium	0.188	0.0886	"	"	"	CIH	"	"
Selenium	0.108	0.0886	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-N18@12'

10/23/2023 9:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 88.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 99.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	1.32	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	1.64	0.823	"	"	"	KAP	"	"	
Sodium	1.06	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-N18@12'

10/23/2023 9:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-03 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.5 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.32	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	0.875	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-N18@12'

10/23/2023 9:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y310613-03 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	3.56	0.0861	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	146	8.61	"	"	"	CIH	"	"
Cadmium	0.170	0.0861	"	"	"	CIH	"	"
Selenium	ND	0.0861	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-N16@12'

10/23/2023 9:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 89.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	1.68	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	2.74	0.823	"	"	"	KAP	"	"	
Sodium	0.875	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-N16@12'

10/23/2023 9:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-04 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	96.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	89.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	129 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.9 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.39	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	0.588	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-N16@12'

10/23/2023 9:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-04 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.86	0.0899	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	119	8.99	"	"	"	CIH	"	"
Cadmium	0.199	0.0899	"	"	"	CIH	"	"
Selenium	0.0926	0.0899	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-S21@14'

10/23/2023 9:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 94.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 98.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	0.527	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023
Magnesium	3.84	0.823	"	"	"	KAP	"	"
Sodium	2.87	0.435	"	"	"	KAP	"	"

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 - Megan H 16-33 O SA

PW-S21@14'

10/23/2023 9:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-05 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.6 %	60-130			"	"	"	
Surrogate: Anthracene-d10	84.7 %	60-130			"	"	"	
Surrogate: Pyrene-d10	134 %	60-130			"	"	"	S-07
Surrogate: Benzo (a) pyrene-d12	98.2 %	60-130			"	"	"	

### pH in Soil by 9045D

pH	8.32		pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	1.94	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S21@14'

10/23/2023 9:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-05 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.25	0.0916	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	137	9.16	"	"	"	CIH	"	"
Cadmium	0.207	0.0916	"	"	"	CIH	"	"
Selenium	0.123	0.0916	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S21@19'

10/23/2023 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-06 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 92.7 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	0.541	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 99.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	1.40	0.823	"	"	"	KAP	"	"	
Sodium	5.95	0.435	"	"	"	KAP	"	"	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S21@19'

10/23/2023 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-06 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	92.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.6 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.53	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	6.30	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S21@19'

10/23/2023 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y310613-06 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	4.03	0.0958	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	158	9.58	"	"	"	CIH	"	"
Cadmium	0.160	0.0958	"	"	"	CIH	"	"
Selenium	0.111	0.0958	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S22@14'

10/23/2023 9:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-07 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 94.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 99.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	2.31	0.823	"	"	"	KAP	"	"	
Sodium	5.13	0.435	"	"	"	KAP	"	"	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S22@14'

10/23/2023 9:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-07 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	96.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	127 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.7 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.55	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	4.46	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S22@14'

10/23/2023 9:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-07 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	3.61	0.0896	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	292	8.96	"	"	"	CIH	"	"
Cadmium	0.185	0.0896	"	"	"	CIH	"	"
Selenium	0.121	0.0896	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S22@19'

10/23/2023 9:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-08 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 89.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 99.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	6.15	0.435	"	"	"	KAP	"	"	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S22@19'

10/23/2023 9:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-08 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	97.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	126 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.5 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.56	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	8.09	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S22@19'

10/23/2023 9:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-08 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.17	0.0887	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	220	8.87	"	"	"	CIH	"	"
Cadmium	0.247	0.0887	"	"	"	CIH	"	"
Selenium	0.0940	0.0887	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S23@14'

10/23/2023 9:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-09 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 98.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 99.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	2.92	0.823	"	"	"	KAP	"	"	
Sodium	9.54	0.435	"	"	"	KAP	"	"	

Origins Laboratory, Inc.



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Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S23@14'

10/23/2023 9:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-09 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	129 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.2 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.53	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	7.34	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S23@14'

10/23/2023 9:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-09 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.12	0.0935	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	160	9.35	"	"	"	CIH	"	"
Cadmium	0.193	0.0935	"	"	"	CIH	"	"
Selenium	0.113	0.0935	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S23@19'

10/23/2023 9:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-10 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 85.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 99.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.707	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023
Magnesium	2.54	0.823	"	"	"	KAP	"	"
Sodium	7.56	0.435	"	"	"	KAP	"	"

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 - Megan H 16-33 O SA

PW-S23@19'

10/23/2023 9:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-10 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	123 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.48	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	5.93	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-S23@19'

10/23/2023 9:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y310613-10 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	5.24	0.0934	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	138	9.34	"	"	"	CIH	"	"
Cadmium	0.177	0.0934	"	"	"	CIH	"	"
Selenium	0.199	0.0934	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-S24@19'

10/23/2023 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-11 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 90.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 99.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	4.82	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-S24@19'

10/23/2023 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-11 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	97.5 %	60-130			"	"	"	
Surrogate: Anthracene-d10	97.2 %	60-130			"	"	"	
Surrogate: Pyrene-d10	136 %	60-130			"	"	"	S-07
Surrogate: Benzo (a) pyrene-d12	95.8 %	60-130			"	"	"	

### pH in Soil by 9045D

pH	8.63		pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	7.19	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-S24@19'

10/23/2023 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-11 (Soil)

### Table 915 metals by EPA 6020B

Arsenic	3.35	0.0939	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	164	9.39	"	"	"	CIH	"	"
Cadmium	0.104	0.0939	"	"	"	CIH	"	"
Selenium	ND	0.0939	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-S25@19'

10/23/2023 9:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-12 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 104 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "  
Surrogate: Toluene-d8 98.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	1.15	0.823	"	"	"	KAP	"	"	
Sodium	6.90	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-S25@19'

10/23/2023 9:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-12 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	96.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	126 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	94.4 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.64	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	8.32	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-S25@19'

10/23/2023 9:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y310613-12 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	4.09	0.0957	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	271	9.57	"	"	"	CIH	"	"
Cadmium	0.146	0.0957	"	"	"	CIH	"	"
Selenium	0.0967	0.0957	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-S26@19'

10/23/2023 9:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-13 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 80.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 99.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	0.927	0.823	"	"	"	KAP	"	"	
Sodium	4.61	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-S26@19'

10/23/2023 9:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-13 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	97.6 %	60-130			"	"	"	
Surrogate: Anthracene-d10	103 %	60-130			"	"	"	
Surrogate: Pyrene-d10	133 %	60-130			"	"	"	S-07
Surrogate: Benzo (a) pyrene-d12	97.5 %	60-130			"	"	"	

### pH in Soil by 9045D

pH	8.56		pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	5.87	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-S26@19'

10/23/2023 9:24:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.  
Y310613-13 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.43	0.0902	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	142	9.02	"	"	"	CIH	"	"
Cadmium	0.191	0.0902	"	"	"	CIH	"	"
Selenium	0.126	0.0902	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-W13@10'

10/23/2023 9:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-14 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 82.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 99.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	1.02	0.823	"	"	"	KAP	"	"	
Sodium	7.32	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

## PW-W13@10'

10/23/2023 9:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-14 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	117 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.59	pH Units	1	B3J2422	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	8.69	0.0100	SAR	1	B3J2417	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-W13@10'

10/23/2023 9:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-14 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.21	0.0935	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	221	9.35	"	"	"	CIH	"	"
Cadmium	0.158	0.0935	"	"	"	CIH	"	"
Selenium	0.144	0.0935	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-W13@15'

10/23/2023 9:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-15 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 80.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 99.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	1.61	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023
Magnesium	2.57	0.823	"	"	"	KAP	"	"
Sodium	9.92	0.435	"	"	"	KAP	"	"

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 - Megan H 16-33 O SA

## PW-W13@15'

10/23/2023 9:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-15 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.3 %	60-130			"	"	"	
Surrogate: Anthracene-d10	93.8 %	60-130			"	"	"	
Surrogate: Pyrene-d10	132 %	60-130			"	"	"	S-07
Surrogate: Benzo (a) pyrene-d12	98.7 %	60-130			"	"	"	

### pH in Soil by 9045D

pH	8.19		pH Units	1	B3J2423	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	6.86	0.0100	SAR	1	B3J2418	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-W13@15'

10/23/2023 9:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-15 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.26	0.0902	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	154	9.02	"	"	"	CIH	"	"
Cadmium	0.183	0.0902	"	"	"	CIH	"	"
Selenium	0.115	0.0902	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-W14@10'

10/23/2023 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-16 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 83.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	0.827	0.823	"	"	"	KAP	"	"	
Sodium	5.64	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

## PW-W14@10'

10/23/2023 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-16 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	126 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.8 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.59	pH Units	1	B3J2423	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	7.41	0.0100	SAR	1	B3J2418	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-W14@10'

10/23/2023 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-16 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	3.23	0.0834	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	96.7	8.34	"	"	"	CIH	"	"
Cadmium	0.157	0.0834	"	"	"	CIH	"	"
Selenium	ND	0.0834	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-W14@15'

10/23/2023 9:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-17 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 83.7 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "  
Surrogate: Toluene-d8 98.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	4.22	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023
Magnesium	7.70	0.823	"	"	"	KAP	"	"
Sodium	18.4	0.435	"	"	"	KAP	"	"

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 - Megan H 16-33 O SA

## PW-W14@15'

10/23/2023 9:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-17 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	123 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.8 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.10	pH Units	1	B3J2423	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	7.54	0.0100	SAR	1	B3J2418	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-W14@15'

10/23/2023 9:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-17 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	3.47	0.0955	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	202	9.55	"	"	"	CIH	"	"
Cadmium	0.171	0.0955	"	"	"	CIH	"	"
Selenium	0.129	0.0955	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-W15@10'

10/23/2023 9:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-18 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 82.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 99.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	1.01	0.823	"	"	"	KAP	"	"	
Sodium	7.45	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

## PW-W15@10'

10/23/2023 9:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-18 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	103 %	60-130	"	"	"
Surrogate: Pyrene-d10	116 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.7 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.60	pH Units	1	B3J2423	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	9.17	0.0100	SAR	1	B3J2418	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-W15@10'

10/23/2023 9:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y310613-18 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	3.54	0.0953	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	108	9.53	"	"	"	CIH	"	"
Cadmium	0.124	0.0953	"	"	"	CIH	"	"
Selenium	ND	0.0953	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

PW-W15@15'

10/23/2023 9:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310613-19 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2330	ZZZ	10/23/2023	10/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 91.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2333	ZZZ	10/23/2023	10/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 99.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	3.45	0.499	meq/L	10	[CALC]	KAP	10/24/2023	10/25/2023	
Magnesium	7.14	0.823	"	"	"	KAP	"	"	
Sodium	19.3	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

## PW-W15@15'

10/23/2023 9:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y310613-19 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2326	Windo	10/23/2023	10/24/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	104 %	60-130	"	"	"
Surrogate: Pyrene-d10	116 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.07	pH Units	1	B3J2423	HJD	10/24/2023	10/25/2023
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### SAR by 20B Saturated Paste

SAR	8.38	0.0100	SAR	1	B3J2418	KAP	10/24/2023	10/25/2023
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### Table 915 metals by EPA 6020B

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-W15@15'

10/23/2023 9:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y310613-19 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	4.91	0.0884	mg/kg	10	B3J2336	CIH	10/23/2023	10/25/2023
Barium	142	8.84	"	"	"	CIH	"	"
Cadmium	0.161	0.0884	"	"	"	CIH	"	"
Selenium	0.218	0.0884	"	"	"	CIH	"	"

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3J2330 - EPA 3550B										
Blank (B3J2330-BLK1)					Prepared: 10/23/2023 Analyzed: 10/23/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3J2330 - EPA 3550B										
LCS (B3J2330-BS1)					Prepared: 10/23/2023 Analyzed: 10/23/2023					
Diesel (C10-C28)	851	50.0	mg/kg	1000		85.1	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	43		"	49.8		87.3	50-150			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3J2330 - EPA 3550B										
Matrix Spike (B3J2330-MS1)		Source: Y310612-01			Prepared: 10/23/2023 Analyzed: 10/23/2023					
Diesel (C10-C28)	859	50.0	mg/kg	1000	ND	85.9	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.3	50-150			

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Project: KMG - Megan H 16-33 O SA

## 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 B3J2330 - EPA 3550B										
Matrix Spike Dup (B3J2330-MSD1)		Source: Y310612-01			Prepared: 10/23/2023 Analyzed: 10/23/2023					
Diesel (C10-C28)	928	50.0	mg/kg	1000	ND	92.8	70-130	7.66	35	
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130	8.59	35	
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3J2333 - EPA 5030 (soil)										
Blank (B3J2333-BLK1)					Prepared: 10/23/2023 Analyzed: 10/23/2023					
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		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3J2333 - EPA 5030 (soil)</b>										
<b>LCS (B3J2333-BS1)</b>					Prepared: 10/23/2023 Analyzed: 10/23/2023					
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100		118	70-130			
Benzene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.114	0.00200	"	0.100		114	70-130			
m,p-Xylene	0.228	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3J2333 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3J2333-MS1)</b>		<b>Source: Y310612-01</b>			Prepared: 10/23/2023 Analyzed: 10/23/2023					
1,2,4-Trimethylbenzene	0.121	0.00200	mg/kg	0.100	ND	121	70-130			
1,3,5-Trimethylbenzene	0.124	0.00200	"	0.100	ND	124	70-130			
Benzene	0.117	0.00200	"	0.100	ND	117	70-130			
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130			
Naphthalene	0.114	0.00380	"	0.100	ND	114	70-130			
Toluene	0.116	0.00200	"	0.100	ND	116	70-130			
o-Xylene	0.117	0.00200	"	0.100	ND	117	70-130			
m,p-Xylene	0.235	0.00400	"	0.200	ND	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3J2333 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3J2333-MSD1)</b>	<b>Source: Y310612-01</b>				Prepared: 10/23/2023 Analyzed: 10/23/2023					
1,2,4-Trimethylbenzene	0.122	0.00200	mg/kg	0.100	ND	122	70-130	0.313	20	
1,3,5-Trimethylbenzene	0.126	0.00200	"	0.100	ND	126	70-130	1.02	20	
Benzene	0.117	0.00200	"	0.100	ND	117	70-130	0.188	20	
Ethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130	1.31	20	
Naphthalene	0.117	0.00380	"	0.100	ND	117	70-130	2.85	20	
Toluene	0.118	0.00200	"	0.100	ND	118	70-130	1.76	20	
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130	1.14	20	
m,p-Xylene	0.241	0.00400	"	0.200	ND	121	70-130	2.73	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.5	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3J2335 - EPA 3050B

#### Blank (B3J2335-BLK1)

Prepared: 10/23/2023 Analyzed: 10/26/2023

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

#### LCS (B3J2335-BS1)

Prepared: 10/23/2023 Analyzed: 10/26/2023

Arsenic	0.0536	0.000100	mg/kg	0.0500	107	80-120
Barium	5.11	0.0100	"	5.00	102	80-120
Cadmium	0.0525	0.000100	"	0.0500	105	80-120
Copper	0.509	0.0100	"	0.500	102	80-120
Lead	0.0516	0.0100	"	0.0500	103	80-120
Nickel	0.0544	0.0100	"	0.0500	109	80-120
Selenium	0.0522	0.000100	"	0.0500	104	80-120
Silver	0.0536	0.000100	"	0.0500	107	80-120
Zinc	0.485	0.100	"	0.500	97.1	80-120

#### Matrix Spike (B3J2335-MS1)

Source: Y310604-01

Prepared: 10/23/2023 Analyzed: 10/26/2023

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3J2335 - EPA 3050B**

Matrix Spike (B3J2335-MS1)		Source: Y310604-01			Prepared: 10/23/2023 Analyzed: 10/26/2023					
Arsenic	6.33	0.0870	mg/kg	4.35	1.63	108	75-125			
Barium	495	8.70	"	435	44.5	104	75-125			
Cadmium	4.75	0.0870	"	4.35	0.0772	107	75-125			
Copper	46.2	8.70	"	43.5	3.57	98.0	75-125			
Lead	9.23	8.70	"	4.35	4.38	111	75-125			
Nickel	9.35	8.70	"	4.35	3.78	128	75-125			QM-07
Selenium	3.87	0.0870	"	4.35	ND	88.9	75-125			
Silver	4.76	0.0870	"	4.35	0.0186	109	75-125			
Zinc	60.9	87.0	"	43.5	16.8	102	75-125			

Matrix Spike Dup (B3J2335-MSD1)		Source: Y310604-01			Prepared: 10/23/2023 Analyzed: 10/26/2023					
Arsenic	6.68	0.0940	mg/kg	4.70	1.63	108	75-125	5.51	20	
Barium	526	9.40	"	470	44.5	102	75-125	6.04	20	
Cadmium	5.02	0.0940	"	4.70	0.0772	105	75-125	5.51	20	
Copper	49.1	9.40	"	47.0	3.57	96.8	75-125	6.05	20	
Lead	10.1	9.40	"	4.70	4.38	121	75-125	8.62	20	
Nickel	8.79	9.40	"	4.70	3.78	106	75-125	6.27	20	
Selenium	4.27	0.0940	"	4.70	ND	90.8	75-125	9.88	20	
Silver	5.08	0.0940	"	4.70	0.0186	108	75-125	6.56	20	
Zinc	64.9	94.0	"	47.0	16.8	102	75-125	6.33	20	

**Batch B3J2336 - EPA 3050B**

Blank (B3J2336-BLK1)		Prepared: 10/23/2023 Analyzed: 10/25/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3J2336 - EPA 3050B

##### Blank (B3J2336-BLK1)

Prepared: 10/23/2023 Analyzed: 10/25/2023

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

##### LCS (B3J2336-BS1)

Prepared: 10/23/2023 Analyzed: 10/25/2023

Arsenic	0.0518	0.000100	mg/kg	0.0500	104	80-120
Barium	5.46	0.0100	"	5.00	109	80-120
Cadmium	0.0550	0.000100	"	0.0500	110	80-120
Copper	0.549	0.0100	"	0.500	110	80-120
Lead	0.0553	0.0100	"	0.0500	111	80-120
Nickel	0.0547	0.0100	"	0.0500	109	80-120
Selenium	0.0488	0.000100	"	0.0500	97.6	80-120
Silver	0.0520	0.000100	"	0.0500	104	80-120
Zinc	0.539	0.100	"	0.500	108	80-120

##### Matrix Spike (B3J2336-MS1)

Source: Y310613-03

Prepared: 10/23/2023 Analyzed: 10/25/2023

Arsenic	7.76	0.0929	mg/kg	4.65	3.56	90.4	75-125
Barium	656	9.29	"	465	146	110	75-125
Cadmium	5.14	0.0929	"	4.65	0.170	107	75-125
Copper	53.4	9.29	"	46.5	8.32	97.0	75-125
Lead	11.7	9.29	"	4.65	7.03	101	75-125
Nickel	13.9	9.29	"	4.65	8.89	108	75-125
Selenium	4.47	0.0929	"	4.65	0.0396	95.5	75-125
Silver	4.50	0.0929	"	4.65	0.0258	96.4	75-125

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3J2336 - EPA 3050B</b>										
<b>Matrix Spike (B3J2336-MS1)</b>		<b>Source: Y310613-03</b>			Prepared: 10/23/2023 Analyzed: 10/25/2023					
Zinc	73.1	92.9	mg/kg	46.5	28.8	95.4	75-125			
<b>Matrix Spike Dup (B3J2336-MSD1)</b>		<b>Source: Y310613-03</b>			Prepared: 10/23/2023 Analyzed: 10/25/2023					
Arsenic	7.94	0.0931	mg/kg	4.66	3.56	94.1	75-125	2.30	20	
Barium	619	9.31	"	466	146	102	75-125	5.89	20	
Cadmium	5.04	0.0931	"	4.66	0.170	105	75-125	1.95	20	
Copper	53.7	9.31	"	46.6	8.32	97.4	75-125	0.532	20	
Lead	11.7	9.31	"	4.66	7.03	101	75-125	0.242	20	
Nickel	12.9	9.31	"	4.66	8.89	85.8	75-125	7.61	20	
Selenium	4.56	0.0931	"	4.66	0.0396	97.0	75-125	1.81	20	
Silver	4.54	0.0931	"	4.66	0.0258	97.0	75-125	0.920	20	
Zinc	73.7	93.1	"	46.6	28.8	96.5	75-125	0.821	20	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3J2326 - EPA 3580**

**Blank (B3J2326-BLK1)**

Prepared: 10/23/2023 Analyzed: 10/24/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.7	60-130			
Surrogate: Pyrene-d10	250		"	200		125	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

**LCS (B3J2326-BS1)**

Prepared: 10/23/2023 Analyzed: 10/24/2023

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.202	0.002	"	0.200		101	70-130			
Acenaphthene	0.203	0.020	"	0.200		102	70-130			
Anthracene	0.181	0.020	"	0.200		90.3	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 - Megan H 16-33 O SA

**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 B3J2326 - EPA 3580**

**LCS (B3J2326-BS1)**

Prepared: 10/23/2023 Analyzed: 10/24/2023

Benzo (a) anthracene	0.192	0.005	mg/kg	0.200		96.2	70-130
Benzo (a) pyrene	0.216	0.020	"	0.200		108	70-130
Benzo (b) fluoranthene	0.224	0.020	"	0.200		112	70-130
Benzo (g,h,i) perylene	0.216	0.020	"	0.200		108	70-130
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.6	70-130
Chrysene	0.202	0.020	"	0.200		101	70-130
Dibenz (a,h) anthracene	0.201	0.020	"	0.200		101	70-130
Fluoranthene	0.189	0.020	"	0.200		94.3	70-130
Fluorene	0.202	0.020	"	0.200		101	70-130
Indeno (1,2,3-cd) pyrene	0.230	0.020	"	0.200		115	70-130
Naphthalene	0.205	0.002	"	0.200		102	70-130
Phenanthrene	0.196	0.020	"	0.200		98.0	70-130
Pyrene	0.251	0.020	"	0.200		126	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130
Surrogate: Anthracene-d10	190		"	200		97.1	60-130
Surrogate: Pyrene-d10	240		"	200		122	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130

**Matrix Spike (B3J2326-MS1)**

**Source: Y310613-01**

Prepared: 10/23/2023 Analyzed: 10/24/2023

1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	ND	107	70-130
2-Methylnaphthalene	0.210	0.002	"	0.200	ND	105	70-130
Acenaphthene	0.214	0.020	"	0.200	ND	107	70-130
Anthracene	0.192	0.020	"	0.200	0.001	95.2	70-130
Benzo (a) anthracene	0.193	0.005	"	0.200	ND	96.5	70-130
Benzo (a) pyrene	0.217	0.020	"	0.200	ND	109	70-130
Benzo (b) fluoranthene	0.233	0.020	"	0.200	ND	117	70-130
Benzo (g,h,i) perylene	0.219	0.020	"	0.200	ND	109	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 - Megan H 16-33 O SA

**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 B3J2326 - EPA 3580**

Matrix Spike (B3J2326-MS1)		Source: Y310613-01			Prepared: 10/23/2023 Analyzed: 10/24/2023					
Benzo (k) fluoranthene	0.201	0.020	mg/kg	0.200	ND	100	70-130			
Chrysene	0.196	0.020	"	0.200	ND	97.9	70-130			
Dibenz (a,h) anthracene	0.205	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.194	0.020	"	0.200	ND	97.1	70-130			
Fluorene	0.211	0.020	"	0.200	ND	105	70-130			
Indeno (1,2,3-cd) pyrene	0.233	0.020	"	0.200	ND	117	70-130			
Naphthalene	0.216	0.002	"	0.200	ND	108	70-130			
Phenanthrene	0.202	0.020	"	0.200	ND	101	70-130			
Pyrene	0.262	0.020	"	0.200	ND	131	70-130			S-04
Surrogate: Fluorene-d10	200		ug/kg	200		98.7	60-130			
Surrogate: Anthracene-d10	190		"	200		97.0	60-130			
Surrogate: Pyrene-d10	250		"	200		123	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B3J2326-MSD1)		Source: Y310613-01			Prepared: 10/23/2023 Analyzed: 10/24/2023					
1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	ND	103	70-130	3.86	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.8	70-130	7.10	20	
Acenaphthene	0.199	0.020	"	0.200	ND	99.6	70-130	6.99	20	
Anthracene	0.170	0.020	"	0.200	0.001	84.4	70-130	12.0	20	
Benzo (a) anthracene	0.188	0.005	"	0.200	ND	94.2	70-130	2.49	20	
Benzo (a) pyrene	0.213	0.020	"	0.200	ND	107	70-130	1.85	20	
Benzo (b) fluoranthene	0.210	0.020	"	0.200	ND	105	70-130	10.5	20	
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	ND	102	70-130	6.84	20	
Benzo (k) fluoranthene	0.173	0.020	"	0.200	ND	86.7	70-130	14.6	20	
Chrysene	0.189	0.020	"	0.200	ND	94.3	70-130	3.71	20	
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	98.2	70-130	4.34	20	
Fluoranthene	0.181	0.020	"	0.200	ND	90.4	70-130	7.24	20	

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 - Megan H 16-33 O SA

**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
<b>Batch B3J2326 - EPA 3580</b>										
<b>Matrix Spike Dup (B3J2326-MSD1)</b>		<b>Source: Y310613-01</b>			Prepared: 10/23/2023 Analyzed: 10/24/2023					
Fluorene	0.195	0.020	mg/kg	0.200	ND	97.7	70-130	7.42	20	QR-02
Indeno (1,2,3-cd) pyrene	0.184	0.020	"	0.200	ND	92.0	70-130	23.7	20	
Naphthalene	0.201	0.002	"	0.200	ND	100	70-130	6.99	20	
Phenanthrene	0.200	0.020	"	0.200	ND	100	70-130	1.19	20	
Pyrene	0.233	0.020	"	0.200	ND	117	70-130	11.7	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	230		"	200		117	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

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 - Megan H 16-33 O SA

## 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 B3J2417 - Saturated Paste Metals

##### Blank (B3J2417-BLK1)

Prepared: 10/24/2023 Analyzed: 10/25/2023

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

##### Duplicate (B3J2417-DUP1)

Source: Y310611-08

Prepared: 10/24/2023 Analyzed: 10/25/2023

Calcium PPM	14.5	10.0	mg/L	13.0	10.9	50
SAR	ND	0.0100	SAR	0.159		200
Magnesium PPM	2.98	10.0	mg/L	2.55	15.6	50
Sodium PPM	2.55	10.0	"	2.39	6.48	50

#### Batch B3J2418 - Saturated Paste Metals

##### Blank (B3J2418-BLK1)

Prepared: 10/24/2023 Analyzed: 10/25/2023

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

##### Duplicate (B3J2418-DUP1)

Source: Y310613-15

Prepared: 10/24/2023 Analyzed: 10/25/2023

SAR	ND	0.0100	SAR	6.86		200
Calcium PPM	28.8	10.0	mg/L	32.2	11.1	50
Magnesium PPM	28.1	10.0	"	31.2	10.6	50
Sodium PPM	201	10.0	"	228	12.5	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 - Megan H 16-33 O SA

## 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 B3J2422 - Saturated Paste pH/EC

Duplicate (B3J2422-DUP1)

Source: Y310611-08

Prepared: 10/24/2023 Analyzed: 10/25/2023

pH	7.89		pH Units	7.85		0.508	25
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### Batch B3J2423 - Saturated Paste pH/EC

Duplicate (B3J2423-DUP1)

Source: Y310613-15

Prepared: 10/24/2023 Analyzed: 10/25/2023

pH	8.24		pH Units	8.19		0.609	25
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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 - Megan H 16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

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

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported 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





November 21, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-33 O SA

Project Number - [none]

Attached are your analytical results for KMG - Megan H 16-33 O SA received by Origins Laboratory, Inc. November 07, 2023. This project is associated with Origins project number Y311169-01.

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 - Megan H 16-33 O SA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-N20@14'	Y311169-01	Soil	November 6, 2023 11:00	11/07/2023 12:45
PW-W16@10'	Y311169-02	Soil	November 6, 2023 11:10	11/07/2023 12:45
PW-B26@21'	Y311169-03	Soil	November 6, 2023 11:30	11/07/2023 12:45
PW-B26@22'	Y311169-04	Soil	November 6, 2023 11:32	11/07/2023 12:45

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 - Megan H 16-33 O SA

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

13111009

page 1 of 1

Client: Eagle Environmental (bxy)  
Project Manager: D Coloccia  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: dcoloccia@eagle-enviro.com

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	Preservative				Matrix	Analysis	Sample Instructions
			Unpreserved	HCl	HNO <sub>3</sub>	Groundwater			
PW-N20014	11/7/23	1100	X				Soil	X	1
PW-W16010		1110							2
PW-B26021		1130							3
PW-B26022		1132							4
									5
									6
									7
									8
									9
									10

Relinquished By: Chris Bode Date: 11/7/23 Time: 1245  
Relinquished By: Date: Time: 24 Hr  
Date Results Needed: 11/7/23 Time: 1245  
Temp Received: 11/7/23 Time: 1245  
Date Results Needed: 11/7/23 Time: 1245

Origins Laboratory, Inc.

*J. Bynon*

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 - Megan H 16-33 O SA

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 311169

Client: Eagle

Client Project ID: Megan H 16-33

Checklist Completed by: WTH/PHS

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

Date/time completed: 11/7/13

Airbill #: N/A

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

Cooler Number/Temperature: 1, 16 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7004

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

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

Reviewed by (Project Manager): WTH

Date/Time Reviewed: 11/7/13

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-N20@14'

11/6/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311169-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0732	ZZZ	11/07/2023	11/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 89.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0733	JSM	11/07/2023	11/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.9 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	1.35	0.499	meq/L	10	[CALC]	KAP	11/08/2023	11/09/2023
Magnesium	2.00	0.823	"	"	"	KAP	"	"
Sodium	0.512	0.435	"	"	"	KAP	"	"

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 - Megan H 16-33 O SA

PW-N20@14'

11/6/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311169-01 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0735	Windo	11/07/2023	11/08/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.6 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.08	pH Units	1	B3K0817	EAL	11/08/2023	11/09/2023
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**SAR by 20B Saturated Paste**

SAR	0.396	0.0100	SAR	1	B3K0811	KAP	11/08/2023	11/09/2023
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**Table 915 metals by EPA 6020B**

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 - Megan H 16-33 O SA

PW-N20@14'

11/6/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y311169-01 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	4.77	0.0965	mg/kg	10	B3K0729	CIH	11/07/2023	11/09/2023
Barium	225	9.65	"	"	"	CIH	"	"
Cadmium	0.151	0.0965	"	"	"	CIH	"	"
Selenium	ND	0.0965	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

**PW-W16@10'**

**11/6/2023 11:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311169-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0732	ZZZ	11/07/2023	11/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 82.7 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0733	JSM	11/07/2023	11/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 103 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	11/08/2023	11/09/2023	
Magnesium	1.04	0.823	"	"	"	KAP	"	"	
Sodium	7.53	0.435	"	"	"	KAP	"	"	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## PW-W16@10'

11/6/2023 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y311169-02 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0735	Windo	11/07/2023	11/08/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.6 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.39	pH Units	1	B3K0817	EAL	11/08/2023	11/09/2023
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### SAR by 20B Saturated Paste

SAR	9.21	0.0100	SAR	1	B3K0811	KAP	11/08/2023	11/09/2023
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-W16@10'

11/6/2023 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311169-02 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	6.10	0.0984	mg/kg	10	B3K0730	CIH	11/07/2023	11/09/2023
Barium	164	9.84	"	"	"	CIH	"	"
Cadmium	0.160	0.0984	"	"	"	CIH	"	"
Selenium	0.108	0.0984	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-B26@21'

11/6/2023 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311169-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0732	ZZZ	11/07/2023	11/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 78.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00598	0.00200	mg/kg	1	B3K0733	JSM	11/07/2023	11/07/2023	
1,3,5-Trimethylbenzene	0.00276	0.00200	"	"	"	JSM	"	"	
Benzene	0.00400	0.00200	"	"	"	JSM	"	"	
Ethylbenzene	0.0133	0.00200	"	"	"	JSM	"	"	
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	0.0186	0.00200	"	"	"	JSM	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 94.8 % 70-130 " " "

**Metals by Saturated Paste by EPA 6010**

Calcium	0.701	0.499	meq/L	10	[CALC]	KAP	11/08/2023	11/09/2023	
Magnesium	1.30	0.823	"	"	"	KAP	"	"	
Sodium	6.38	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

PW-B26@21'

11/6/2023 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y311169-03 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0735	Windo	11/07/2023	11/08/2023	U
2-Methylnaphthalene	0.004	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	103 %	60-130			"	"	"
Surrogate: Anthracene-d10	96.2 %	60-130			"	"	"
Surrogate: Pyrene-d10	99.4 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	97.5 %	60-130			"	"	"

### pH in Soil by 9045D

pH	8.12	pH Units	1	B3K0817	EAL	11/08/2023	11/09/2023
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### SAR by 20B Saturated Paste

SAR	6.38	0.0100	SAR	1	B3K0811	KAP	11/08/2023	11/09/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.10	0.0889	mg/kg	10	B3K0730	CIH	11/07/2023	11/09/2023
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

PW-B26@21'

11/6/2023 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311169-03 (Soil)

## Table 915 metals by EPA 6020B

Barium	204	8.89	mg/kg	10	B3K0730	CIH	11/07/2023	11/09/2023
Cadmium	0.700	0.0889	"	"	"	CIH	"	"
Selenium	0.364	0.0889	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## PW-B26@22'

11/6/2023 11:32:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y311169-04 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0802	ZZZ	11/08/2023	11/08/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 94.4 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0186	0.00200	mg/kg	1	B3K0829	ZZZ	11/08/2023	11/08/2023	
1,3,5-Trimethylbenzene	0.0110	0.00200	"	"	"	ZZZ	"	"	
Benzene	0.00306	0.00200	"	"	"	ZZZ	"	"	
Ethylbenzene	0.00230	0.00200	"	"	"	ZZZ	"	"	
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	0.0124	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	0.471	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 98.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

### Metals by Saturated Paste by EPA 6010

Calcium	0.513	0.499	meq/L	10	[CALC]	KAP	11/09/2023	11/13/2023	
Magnesium	0.840	0.823	"	"	"	KAP	"	"	
Sodium	5.88	0.435	"	"	"	KAP	"	"	

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 - Megan H 16-33 O SA

## PW-B26@22'

11/6/2023 11:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y311169-04 (Soil)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0826	Windo	11/08/2023	11/15/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	106 %	60-130	"	"	"
Surrogate: Pyrene-d10	105 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	93.7 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.31	pH Units	1	B3K0923	EAL	11/09/2023	11/10/2023
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### SAR by 20B Saturated Paste

SAR	7.14	0.0100	SAR	1	B3K0918	KAP	11/09/2023	11/13/2023
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### Table 915 metals by EPA 6020B

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 - Megan H 16-33 O SA

PW-B26@22'

11/6/2023 11:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311169-04 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	10.9	0.0956	mg/kg	10	B3K1005	CIH	11/10/2023	11/14/2023
Barium	88.2	9.56	"	"	"	CIH	"	"
Cadmium	0.301	0.0956	"	"	"	CIH	"	"
Selenium	0.235	0.0956	"	"	"	CIH	"	"

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 - Megan H 16-33 O SA

## 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 B3K0732 - EPA 3550B										
Blank (B3K0732-BLK1)					Prepared: 11/07/2023 Analyzed: 11/07/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.5	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 - Megan H 16-33 O SA

**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 B3K0732 - EPA 3550B

**LCS (B3K0732-BS1)**

Prepared: 11/07/2023 Analyzed: 11/07/2023

Diesel (C10-C28)	820	50.0	mg/kg	1000		82.0	70-130			
Residual Range Organics (C28-C40)	975	200	"	1000		97.5	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.8	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3K0732 - EPA 3550B

Matrix Spike (B3K0732-MS1)		Source: Y311169-01			Prepared: 11/07/2023 Analyzed: 11/07/2023					
Diesel (C10-C28)	776	50.0	mg/kg	1000	ND	77.6	70-130			
Residual Range Organics (C28-C40)	915	200	"	1000	ND	91.5	70-130			
Surrogate: o-Terphenyl	38		"	49.8		77.3	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 - Megan H 16-33 O SA

## 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 B3K0732 - EPA 3550B

Matrix Spike Dup (B3K0732-MSD1)		Source: Y311169-01			Prepared: 11/07/2023 Analyzed: 11/07/2023					
Diesel (C10-C28)	799	50.0	mg/kg	1000	ND	79.9	70-130	2.93	35	
Residual Range Organics (C28-C40)	954	200	"	1000	ND	95.4	70-130	4.22	35	
Surrogate: o-Terphenyl	40		"	49.8		80.8	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 - Megan H 16-33 O SA

## 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 B3K0733 - EPA 5030 (soil)										
Blank (B3K0733-BLK1)					Prepared: 11/07/2023 Analyzed: 11/07/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.1	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 - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0733 - EPA 5030 (soil)</b>										
<b>LCS (B3K0733-BS1)</b>					Prepared: 11/07/2023 Analyzed: 11/07/2023					
1,2,4-Trimethylbenzene	0.0983	0.00200	mg/kg	0.100		98.3	70-130			
1,3,5-Trimethylbenzene	0.0980	0.00200	"	0.100		98.0	70-130			
Benzene	0.0997	0.00200	"	0.100		99.7	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Naphthalene	0.0929	0.00380	"	0.100		92.9	70-130			
Toluene	0.0947	0.00200	"	0.100		94.7	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0733 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3K0733-MS1)</b>		<b>Source: Y311169-01</b>			Prepared: 11/07/2023 Analyzed: 11/07/2023					
1,2,4-Trimethylbenzene	0.0972	0.00200	mg/kg	0.100	ND	97.2	70-130			
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Benzene	0.0997	0.00200	"	0.100	ND	99.7	70-130			
Ethylbenzene	0.0995	0.00200	"	0.100	ND	99.5	70-130			
Naphthalene	0.0967	0.00380	"	0.100	ND	96.7	70-130			
Toluene	0.0939	0.00200	"	0.100	ND	93.9	70-130			
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130			
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3K0733 - EPA 5030 (soil)										
Matrix Spike Dup (B3K0733-MSD1)		Source: Y311169-01			Prepared: 11/07/2023 Analyzed: 11/07/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	3.73	20	
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	3.33	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	3.10	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	2.93	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	6.67	20	
Toluene	0.0974	0.00200	"	0.100	ND	97.4	70-130	3.72	20	
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130	2.51	20	
m,p-Xylene	0.205	0.00400	"	0.200	ND	102	70-130	2.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0802 - EPA 3550B</b>										
<b>Blank (B3K0802-BLK1)</b>					Prepared: 11/08/2023 Analyzed: 11/08/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.4	50-150			

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Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

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 B3K0802 - EPA 3550B										
LCS (B3K0802-BS1)					Prepared: 11/08/2023 Analyzed: 11/08/2023					
Diesel (C10-C28)	860	50.0	mg/kg	1000		86.0	70-130			
Residual Range Organics (C28-C40)	971	200	"	1000		97.1	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## 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 B3K0802 - EPA 3550B

Matrix Spike (B3K0802-MS1)		Source: Y311169-04			Prepared: 11/08/2023 Analyzed: 11/08/2023					
Diesel (C10-C28)	914	50.0	mg/kg	1000	ND	91.4	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.6	50-150			

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## 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 B3K0802 - EPA 3550B

Matrix Spike Dup (B3K0802-MSD1)		Source: Y311169-04			Prepared: 11/08/2023 Analyzed: 11/08/2023					
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130	2.70	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	3.41	35	
Surrogate: o-Terphenyl	46		"	49.8		92.6	50-150			

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## 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 B3K0829 - EPA 5030 (soil)										
Blank (B3K0829-BLK1)					Prepared: 11/08/2023 Analyzed: 11/08/2023					
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		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0829 - EPA 5030 (soil)</b>										
<b>LCS (B3K0829-BS1)</b>					Prepared: 11/08/2023 Analyzed: 11/08/2023					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0962	0.00200	"	0.100		96.2	70-130			
Ethylbenzene	0.0948	0.00200	"	0.100		94.8	70-130			
Naphthalene	0.0977	0.00380	"	0.100		97.7	70-130			
Toluene	0.0969	0.00200	"	0.100		96.9	70-130			
o-Xylene	0.0944	0.00200	"	0.100		94.4	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.8	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0829 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3K0829-MS1)</b>		<b>Source: Y311169-04</b>			Prepared: 11/08/2023 Analyzed: 11/08/2023					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	0.0186	92.9	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	0.0110	85.0	70-130			
Benzene	0.0996	0.00200	"	0.100	0.00306	96.6	70-130			
Ethylbenzene	0.0954	0.00200	"	0.100	0.00230	93.1	70-130			
Naphthalene	0.102	0.00380	"	0.100	0.000980	101	70-130			
Toluene	0.0919	0.00200	"	0.100	ND	91.9	70-130			
o-Xylene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	0.0124	92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125		80.7	70-130			

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Project: KMG - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0829 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3K0829-MSD1)</b>		<b>Source: Y311169-04</b>			Prepared: 11/08/2023 Analyzed: 11/08/2023					
1,2,4-Trimethylbenzene	0.119	0.00200	mg/kg	0.100	0.0186	100	70-130	6.39	20	
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100	0.0110	105	70-130	19.1	20	
Benzene	0.101	0.00200	"	0.100	0.00306	97.6	70-130	1.04	20	
Ethylbenzene	0.113	0.00200	"	0.100	0.00230	110	70-130	16.5	20	
Naphthalene	0.110	0.00380	"	0.100	0.000980	109	70-130	7.74	20	
Toluene	0.0901	0.00200	"	0.100	ND	90.1	70-130	1.98	20	
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130	16.3	20	
m,p-Xylene	0.233	0.00400	"	0.200	0.0124	110	70-130	16.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

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## 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 B3K0729 - EPA 3050B

#### Blank (B3K0729-BLK1)

Prepared: 11/07/2023 Analyzed: 11/09/2023

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

#### LCS (B3K0729-BS1)

Prepared: 11/07/2023 Analyzed: 11/09/2023

Arsenic	0.0475	0.000100	mg/kg	0.0500	95.1	80-120
Barium	5.02	0.0100	"	5.00	100	80-120
Cadmium	0.0519	0.000100	"	0.0500	104	80-120
Copper	0.469	0.0100	"	0.500	93.9	80-120
Lead	0.0498	0.0100	"	0.0500	99.5	80-120
Nickel	0.0468	0.0100	"	0.0500	93.6	80-120
Selenium	0.0518	0.000100	"	0.0500	104	80-120
Silver	0.0483	0.000100	"	0.0500	96.7	80-120
Zinc	0.438	0.100	"	0.500	87.7	80-120

#### Matrix Spike (B3K0729-MS1)

Source: Y310695-01

Prepared: 11/07/2023 Analyzed: 11/09/2023

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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 B3K0729 - EPA 3050B**

Matrix Spike (B3K0729-MS1)		Source: Y310695-01			Prepared: 11/07/2023 Analyzed: 11/09/2023					
Arsenic	9.44	0.0967	mg/kg	4.84	4.46	103	75-125			
Barium	586	9.67	"	484	74.5	106	75-125			
Cadmium	6.01	0.0967	"	4.84	0.870	106	75-125			
Copper	71.0	9.67	"	48.4	19.9	106	75-125			
Lead	29.0	9.67	"	4.84	26.5	51.1	75-125			QM-07
Nickel	11.3	9.67	"	4.84	6.07	109	75-125			
Selenium	5.49	0.0967	"	4.84	0.142	111	75-125			
Silver	5.26	0.0967	"	4.84	0.306	103	75-125			
Zinc	123	96.7	"	48.4	79.4	89.3	75-125			

Matrix Spike Dup (B3K0729-MSD1)		Source: Y310695-01			Prepared: 11/07/2023 Analyzed: 11/09/2023					
Arsenic	8.56	0.0928	mg/kg	4.64	4.46	88.2	75-125	9.80	20	
Barium	532	9.28	"	464	74.5	98.7	75-125	9.51	20	
Cadmium	5.62	0.0928	"	4.64	0.870	102	75-125	6.63	20	
Copper	63.8	9.28	"	46.4	19.9	94.7	75-125	10.7	20	
Lead	24.5	9.28	"	4.64	26.5	NR	75-125	16.7	20	QM-07
Nickel	9.87	9.28	"	4.64	6.07	81.9	75-125	13.9	20	
Selenium	4.93	0.0928	"	4.64	0.142	103	75-125	10.7	20	
Silver	4.78	0.0928	"	4.64	0.306	96.4	75-125	9.62	20	
Zinc	107	92.8	"	46.4	79.4	60.2	75-125	13.3	20	QM-07

**Batch B3K0730 - EPA 3050B**

Blank (B3K0730-BLK1)		Prepared: 11/07/2023 Analyzed: 11/09/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

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Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3K0730 - EPA 3050B**

**Blank (B3K0730-BLK1)**

Prepared: 11/07/2023 Analyzed: 11/09/2023

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

**LCS (B3K0730-BS1)**

Prepared: 11/07/2023 Analyzed: 11/09/2023

Arsenic	0.0479	0.000100	mg/kg	0.0500	95.8	80-120
Barium	5.07	0.0100	"	5.00	101	80-120
Cadmium	0.0522	0.000100	"	0.0500	104	80-120
Copper	0.478	0.0100	"	0.500	95.6	80-120
Lead	0.0504	0.0100	"	0.0500	101	80-120
Nickel	0.0484	0.0100	"	0.0500	96.7	80-120
Selenium	0.0517	0.000100	"	0.0500	103	80-120
Silver	0.0486	0.000100	"	0.0500	97.2	80-120
Zinc	0.438	0.100	"	0.500	87.6	80-120

**Matrix Spike (B3K0730-MS1)**

**Source: Y311073-01**

Prepared: 11/07/2023 Analyzed: 11/09/2023

Arsenic	8.74	0.0970	mg/kg	4.85	3.98	98.3	75-125
Barium	561	9.70	"	485	65.6	102	75-125
Cadmium	5.09	0.0970	"	4.85	0.124	102	75-125
Copper	54.3	9.70	"	48.5	6.29	99.1	75-125
Lead	11.3	9.70	"	4.85	7.12	85.6	75-125
Nickel	12.2	9.70	"	4.85	8.52	74.8	75-125
Selenium	4.72	0.0970	"	4.85	0.0723	95.8	75-125
Silver	4.62	0.0970	"	4.85	0.0265	94.7	75-125

QM-07

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Project: KMG - Megan H 16-33 O SA

**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 B3K0730 - EPA 3050B**

<b>Matrix Spike (B3K0730-MS1)</b>		<b>Source: Y311073-01</b>			Prepared: 11/07/2023 Analyzed: 11/09/2023					
Zinc	74.2	97.0	mg/kg	48.5	29.9	91.4	75-125			
<b>Matrix Spike Dup (B3K0730-MSD1)</b>		<b>Source: Y311073-01</b>			Prepared: 11/07/2023 Analyzed: 11/09/2023					
Arsenic	9.04	0.0986	mg/kg	4.93	3.98	103	75-125	3.31	20	
Barium	579	9.86	"	493	65.6	104	75-125	3.23	20	
Cadmium	5.25	0.0986	"	4.93	0.124	104	75-125	3.10	20	
Copper	56.9	9.86	"	49.3	6.29	103	75-125	4.60	20	
Lead	11.3	9.86	"	4.93	7.12	85.7	75-125	0.676	20	
Nickel	12.7	9.86	"	4.93	8.52	84.2	75-125	4.25	20	
Selenium	5.17	0.0986	"	4.93	0.0723	103	75-125	9.16	20	
Silver	4.72	0.0986	"	4.93	0.0265	95.2	75-125	2.19	20	
Zinc	76.6	98.6	"	49.3	29.9	94.7	75-125	3.19	20	

**Batch B3K1005 - EPA 3050B**

<b>Blank (B3K1005-BLK1)</b>		Prepared: 11/10/2023 Analyzed: 11/14/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							
<b>LCS (B3K1005-BS1)</b>		Prepared: 11/10/2023 Analyzed: 11/14/2023								
Arsenic	0.0534	0.000100	mg/kg	0.0500		107	80-120			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K1005 - EPA 3050B</b>										
<b>LCS (B3K1005-BS1)</b>					Prepared: 11/10/2023 Analyzed: 11/14/2023					
Barium	5.31	0.0100	"	5.00		106	80-120			
Cadmium	0.0530	0.000100	"	0.0500		106	80-120			
Copper	0.571	0.0100	"	0.500		114	80-120			
Lead	0.0516	0.0100	"	0.0500		103	80-120			
Nickel	0.0513	0.0100	"	0.0500		103	80-120			
Selenium	0.0530	0.000100	"	0.0500		106	80-120			
Silver	0.0450	0.000100	"	0.0500		90.1	80-120			
Zinc	0.526	0.100	"	0.500		105	80-120			
<b>Matrix Spike (B3K1005-MS1)</b>					<b>Source: Y310651-05</b>		Prepared: 11/10/2023 Analyzed: 11/14/2023			
Arsenic	5.87	0.0920	mg/kg	4.60	0.640	114	75-125			
Barium	512	9.20	"	460	8.70	109	75-125			
Cadmium	5.12	0.0920	"	4.60	0.0252	111	75-125			
Copper	55.3	9.20	"	46.0	1.85	116	75-125			
Lead	6.45	9.20	"	4.60	1.47	108	75-125			
Nickel	7.09	9.20	"	4.60	2.31	104	75-125			
Selenium	4.87	0.0920	"	4.60	ND	106	75-125			
Silver	4.25	0.0920	"	4.60	0.0108	92.1	75-125			
Zinc	59.3	92.0	"	46.0	ND	129	75-125			QM-07
<b>Matrix Spike Dup (B3K1005-MSD1)</b>					<b>Source: Y310651-05</b>		Prepared: 11/10/2023 Analyzed: 11/14/2023			
Arsenic	6.69	0.0973	mg/kg	4.86	0.640	124	75-125	13.1	20	
Barium	557	9.73	"	486	8.70	113	75-125	8.46	20	
Cadmium	5.74	0.0973	"	4.86	0.0252	118	75-125	11.5	20	
Copper	63.7	9.73	"	48.6	1.85	127	75-125	14.1	20	QM-07
Lead	7.60	9.73	"	4.86	1.47	126	75-125	16.4	20	QM-07
Nickel	13.7	9.73	"	4.86	2.31	234	75-125	63.5	20	QM-07

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3K1005 - EPA 3050B

Matrix Spike Dup (B3K1005-MSD1)		Source: Y310651-05			Prepared: 11/10/2023 Analyzed: 11/14/2023					
Selenium	5.76	0.0973	mg/kg	4.86	ND	118	75-125	16.7	20	
Silver	4.77	0.0973	"	4.86	0.0108	97.7	75-125	11.5	20	
Zinc	65.6	97.3	"	48.6	ND	135	75-125	10.0	20	QM-07

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Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3K0735 - EPA 3580**

**Blank (B3K0735-BLK1)**

Prepared: 11/07/2023 Analyzed: 11/08/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		96.1	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

**LCS (B3K0735-BS1)**

Prepared: 11/07/2023 Analyzed: 11/08/2023

1-Methylnaphthalene	0.206	0.002	mg/kg	0.200		103	70-130
2-Methylnaphthalene	0.200	0.002	"	0.200		100	70-130
Acenaphthene	0.199	0.020	"	0.200		99.6	70-130
Anthracene	0.176	0.020	"	0.200		88.1	70-130

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3K0735 - EPA 3580**

**LCS (B3K0735-BS1)**

Prepared: 11/07/2023 Analyzed: 11/08/2023

Benzo (a) anthracene	0.192	0.005	mg/kg	0.200		95.8	70-130
Benzo (a) pyrene	0.196	0.020	"	0.200		97.9	70-130
Benzo (b) fluoranthene	0.197	0.020	"	0.200		98.4	70-130
Benzo (g,h,i) perylene	0.211	0.020	"	0.200		105	70-130
Benzo (k) fluoranthene	0.215	0.020	"	0.200		107	70-130
Chrysene	0.188	0.020	"	0.200		94.1	70-130
Dibenz (a,h) anthracene	0.204	0.020	"	0.200		102	70-130
Fluoranthene	0.206	0.020	"	0.200		103	70-130
Fluorene	0.208	0.020	"	0.200		104	70-130
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200		99.5	70-130
Naphthalene	0.203	0.002	"	0.200		101	70-130
Phenanthrene	0.198	0.020	"	0.200		99.0	70-130
Pyrene	0.188	0.020	"	0.200		94.2	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130
Surrogate: Anthracene-d10	190		"	200		95.9	60-130
Surrogate: Pyrene-d10	190		"	200		96.3	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.9	60-130

**Matrix Spike (B3K0735-MS1)**

**Source: Y311169-01**

Prepared: 11/07/2023 Analyzed: 11/08/2023

1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	ND	106	70-130
2-Methylnaphthalene	0.208	0.002	"	0.200	ND	104	70-130
Acenaphthene	0.207	0.020	"	0.200	ND	104	70-130
Anthracene	0.178	0.020	"	0.200	ND	89.2	70-130
Benzo (a) anthracene	0.194	0.005	"	0.200	ND	96.9	70-130
Benzo (a) pyrene	0.205	0.020	"	0.200	ND	103	70-130
Benzo (b) fluoranthene	0.207	0.020	"	0.200	ND	103	70-130
Benzo (g,h,i) perylene	0.217	0.020	"	0.200	ND	108	70-130

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Project: KMG - Megan H 16-33 O SA

**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 B3K0735 - EPA 3580**

Matrix Spike (B3K0735-MS1)		Source: Y311169-01			Prepared: 11/07/2023 Analyzed: 11/08/2023					
Benzo (k) fluoranthene	0.221	0.020	mg/kg	0.200	ND	110	70-130			
Chrysene	0.201	0.020	"	0.200	ND	101	70-130			
Dibenz (a,h) anthracene	0.208	0.020	"	0.200	ND	104	70-130			
Fluoranthene	0.218	0.020	"	0.200	ND	109	70-130			
Fluorene	0.216	0.020	"	0.200	ND	108	70-130			
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200	ND	102	70-130			
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130			
Phenanthrene	0.205	0.020	"	0.200	ND	102	70-130			
Pyrene	0.193	0.020	"	0.200	ND	96.6	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		95.5	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.7	60-130			

Matrix Spike Dup (B3K0735-MSD1)		Source: Y311169-01			Prepared: 11/07/2023 Analyzed: 11/08/2023					
1-Methylnaphthalene	0.211	0.002	mg/kg	0.200	ND	105	70-130	0.515	20	
2-Methylnaphthalene	0.205	0.002	"	0.200	ND	103	70-130	1.62	20	
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130	1.21	20	
Anthracene	0.202	0.020	"	0.200	ND	101	70-130	12.2	20	
Benzo (a) anthracene	0.192	0.005	"	0.200	ND	95.9	70-130	0.944	20	
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.3	70-130	5.40	20	
Benzo (b) fluoranthene	0.190	0.020	"	0.200	ND	94.8	70-130	8.58	20	
Benzo (g,h,i) perylene	0.211	0.020	"	0.200	ND	106	70-130	2.45	20	
Benzo (k) fluoranthene	0.188	0.020	"	0.200	ND	93.9	70-130	16.1	20	
Chrysene	0.205	0.020	"	0.200	ND	102	70-130	1.68	20	
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	100	70-130	4.08	20	
Fluoranthene	0.211	0.020	"	0.200	ND	105	70-130	3.45	20	

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Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3K0735 - EPA 3580**

Matrix Spike Dup (B3K0735-MSD1)		Source: Y311169-01			Prepared: 11/07/2023 Analyzed: 11/08/2023					
Fluorene	0.212	0.020	mg/kg	0.200	ND	106	70-130	1.54	20	
Indeno (1,2,3-cd) pyrene	0.181	0.020	"	0.200	ND	90.4	70-130	12.1	20	
Naphthalene	0.203	0.002	"	0.200	ND	101	70-130	4.53	20	
Phenanthrene	0.201	0.020	"	0.200	ND	101	70-130	1.73	20	
Pyrene	0.188	0.020	"	0.200	ND	94.2	70-130	2.57	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.6	60-130			

**Batch B3K0826 - EPA 3580**

Blank (B3K0826-BLK1)		Prepared: 11/08/2023 Analyzed: 11/15/2023								
1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3K0826 - EPA 3580**

**Blank (B3K0826-BLK1)**

Prepared: 11/08/2023 Analyzed: 11/15/2023

Naphthalene	ND	0.002	mg/kg							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		96.7	60-130			
Surrogate: Anthracene-d10	180		"	200		91.3	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.1	60-130			

**LCS (B3K0826-BS1)**

Prepared: 11/08/2023 Analyzed: 11/15/2023

1-Methylnaphthalene	0.206	0.002	mg/kg	0.200		103	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200		99.1	70-130			
Acenaphthene	0.200	0.020	"	0.200		100	70-130			
Anthracene	0.209	0.020	"	0.200		105	70-130			
Benzo (a) anthracene	0.173	0.005	"	0.200		86.6	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.4	70-130			
Benzo (b) fluoranthene	0.165	0.020	"	0.200		82.6	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200		99.9	70-130			
Benzo (k) fluoranthene	0.198	0.020	"	0.200		99.0	70-130			
Chrysene	0.198	0.020	"	0.200		98.9	70-130			
Dibenz (a,h) anthracene	0.185	0.020	"	0.200		92.4	70-130			
Fluoranthene	0.207	0.020	"	0.200		103	70-130			
Fluorene	0.198	0.020	"	0.200		99.2	70-130			
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200		111	70-130			
Naphthalene	0.203	0.002	"	0.200		101	70-130			
Phenanthrene	0.198	0.020	"	0.200		98.8	70-130			
Pyrene	0.191	0.020	"	0.200		95.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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 B3K0826 - EPA 3580**

**LCS (B3K0826-BS1)**

Prepared: 11/08/2023 Analyzed: 11/15/2023

Surrogate: Anthracene-d10	180		ug/kg	200		89.2	60-130
Surrogate: Pyrene-d10	200		"	200		98.4	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.1	60-130

**Matrix Spike (B3K0826-MS1)**

**Source: Y311147-01**

Prepared: 11/08/2023 Analyzed: 11/15/2023

1-Methylnaphthalene	0.221	0.002	mg/kg	0.200	ND	110	70-130
2-Methylnaphthalene	0.214	0.002	"	0.200	ND	107	70-130
Acenaphthene	0.217	0.020	"	0.200	ND	109	70-130
Anthracene	0.176	0.020	"	0.200	0.001	87.5	70-130
Benzo (a) anthracene	0.199	0.005	"	0.200	0.003	98.0	70-130
Benzo (a) pyrene	0.217	0.020	"	0.200	0.004	107	70-130
Benzo (b) fluoranthene	0.202	0.020	"	0.200	0.003	99.3	70-130
Benzo (g,h,i) perylene	0.220	0.020	"	0.200	0.003	109	70-130
Benzo (k) fluoranthene	0.238	0.020	"	0.200	0.001	118	70-130
Chrysene	0.227	0.020	"	0.200	0.003	112	70-130
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	0.001	101	70-130
Fluoranthene	0.246	0.020	"	0.200	0.006	120	70-130
Fluorene	0.216	0.020	"	0.200	ND	108	70-130
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200	ND	105	70-130
Naphthalene	0.226	0.002	"	0.200	ND	113	70-130
Phenanthrene	0.215	0.020	"	0.200	0.004	106	70-130
Pyrene	0.220	0.020	"	0.200	0.003	109	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130
Surrogate: Anthracene-d10	180		"	200		92.0	60-130
Surrogate: Pyrene-d10	200		"	200		102	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130

**Matrix Spike Dup (B3K0826-MSD1)**

**Source: Y311147-01**

Prepared: 11/08/2023 Analyzed: 11/15/2023

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Megan H 16-33 O SA

**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
<b>Batch B3K0826 - EPA 3580</b>										
1-Methylnaphthalene	0.251	0.002	mg/kg	0.200	ND	126	70-130	12.8	20	
2-Methylnaphthalene	0.239	0.002	"	0.200	ND	119	70-130	11.2	20	
Acenaphthene	0.238	0.020	"	0.200	ND	119	70-130	9.08	20	
Anthracene	0.236	0.020	"	0.200	0.001	117	70-130	29.1	20	QM-07
Benzo (a) anthracene	0.225	0.005	"	0.200	0.003	111	70-130	12.4	20	
Benzo (a) pyrene	0.237	0.020	"	0.200	0.004	116	70-130	8.76	20	
Benzo (b) fluoranthene	0.194	0.020	"	0.200	0.003	95.4	70-130	3.95	20	
Benzo (g,h,i) perylene	0.234	0.020	"	0.200	0.003	116	70-130	6.22	20	
Benzo (k) fluoranthene	0.239	0.020	"	0.200	0.001	119	70-130	0.522	20	
Chrysene	0.219	0.020	"	0.200	0.003	108	70-130	3.66	20	
Dibenz (a,h) anthracene	0.222	0.020	"	0.200	0.001	110	70-130	8.78	20	
Fluoranthene	0.251	0.020	"	0.200	0.006	123	70-130	1.89	20	
Fluorene	0.232	0.020	"	0.200	ND	116	70-130	7.51	20	
Indeno (1,2,3-cd) pyrene	0.266	0.020	"	0.200	ND	133	70-130	23.6	20	QM-07
Naphthalene	0.245	0.002	"	0.200	ND	122	70-130	7.67	20	
Phenanthrene	0.224	0.020	"	0.200	0.004	110	70-130	4.14	20	
Pyrene	0.233	0.020	"	0.200	0.003	115	70-130	5.58	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.2	60-130			

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 - Megan H 16-33 O SA

## 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 B3K0811 - Saturated Paste Metals

##### Blank (B3K0811-BLK1)

Prepared: 11/08/2023 Analyzed: 11/09/2023

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

##### Duplicate (B3K0811-DUP1)

Source: Y311153-01

Prepared: 11/08/2023 Analyzed: 11/09/2023

SAR	ND	0.0100	SAR	ND	200
Calcium PPM	120	10.0	mg/L	ND	50
Magnesium PPM	35.5	10.0	"	ND	50
Sodium PPM	266	10.0	"	249	6.66 50

#### Batch B3K0918 - Saturated Paste Metals

##### Blank (B3K0918-BLK1)

Prepared: 11/09/2023 Analyzed: 11/13/2023

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

##### Duplicate (B3K0918-DUP1)

Source: Y311169-04

Prepared: 11/09/2023 Analyzed: 11/13/2023

Calcium PPM	9.18	10.0	mg/L	10.3	11.3 50
SAR	ND	0.0100	SAR	7.14	200
Magnesium PPM	9.73	10.0	mg/L	10.2	4.81 50
Sodium PPM	135	10.0	"	135	0.251 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 - Megan H 16-33 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0817 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3K0817-DUP1)</b>		<b>Source: Y311153-01</b>			Prepared: 11/08/2023 Analyzed: 11/09/2023					
pH	7.51		pH Units		7.60			1.19	25	
<b>Batch B3K0923 - Saturated Paste pH/EC</b>										
<b>Duplicate (B3K0923-DUP1)</b>		<b>Source: Y311169-04</b>			Prepared: 11/09/2023 Analyzed: 11/10/2023					
pH	8.27		pH Units		8.31			0.483	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 - Megan H 16-33 O SA

### Notes and Definitions

U Sample is Non-Detect.

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 at a wet weight basis.

Origins Laboratory, Inc.



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May 01, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - UPRC H17-99HZ

Project Number - [none]

Attached are your analytical results for KMG - UPRC H17-99HZ received by Origins Laboratory, Inc. April 14, 2023. This project is associated with Origins project number Y304348-01.

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 - UPRC H17-99HZ

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y304348-01	Soil	April 14, 2023 12:18	04/14/2023 15:08
FL-B01@3'	Y304348-02	Soil	April 14, 2023 12:44	04/14/2023 15:08
WH-BG01@3'	Y304348-03	Soil	April 14, 2023 12:28	04/14/2023 15:08
WH-BG01@6'	Y304348-04	Soil	April 14, 2023 12:30	04/14/2023 15:08
WH-BG02@3'	Y304348-05	Soil	April 14, 2023 12:32	04/14/2023 15:08
WH-BG02@6'	Y304348-06	Soil	April 14, 2023 12:34	04/14/2023 15:08
WH-BG03@3'	Y304348-07	Soil	April 14, 2023 12:36	04/14/2023 15:08
WH-BG03@6'	Y304348-08	Soil	April 14, 2023 12:38	04/14/2023 15:08
WH-BG04@3'	Y304348-09	Soil	April 14, 2023 12:40	04/14/2023 15:08
WH-BG04@6'	Y304348-10	Soil	April 14, 2023 12:42	04/14/2023 15:08

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 - UPRC H17-99HZ

www.originslaboratory.com

4304348 Initial

page 1 of 1

Client: Eagle Environmental (oxy)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia  
Project Name: UPRC H17-99HZ  
Project Number: -  
Samples Collected By: CB/CC

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Other	TPH	EC/PT	SAR	
WH-BG0106'	4/14/23	1218	3	X					X			X	X	X	915 metals added to all BG samples per Coloccia email on 4/14/23
FL-BG0103'		1244													
WH-BG0103'		1228													
WH-BG0106'		1230													
WH-BG0203'		1232													
WH-BG0206'		1234													
WH-BG0303'		1236													
WH-BG0306'		1238													
WH-BG0403'		1240													
WH-BG0406'		1242													
Relinquished By: Chris Bach	Date: 4/14/23	Time: 1508													Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr 48 Hr <input type="checkbox"/> 72 Hr Standard <input type="checkbox"/>
Relinquished By:	Date:	Time:													

Temp Received: 5.5 Date Results Needed

Origins Laboratory, Inc.

*J. Bynon*

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 - UPRC H17-99HZ

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4304348 Client: Eagle  
Client Project ID: UPRC H17-99HZ

Checklist Completed by: EAS/WH Shipped Via: HD  
Date/time completed: 4/14/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: NA

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

Cooler Number/Temperature: 1 15.5 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) CS

Date/Time Reviewed 4/14/23

Origins Laboratory, Inc.

*Bynon*

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 - UPRC H17-99HZ

WH-B01@6'

4/14/2023 12:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304348-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.214	0.100	mg/L	1	B3D1708	04/17/2023	04/18/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D1422	04/14/2023	04/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.2 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D1430	04/14/2023	04/14/2023	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

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 - UPRC H17-99HZ

WH-B01@6'

4/14/2023 12:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	B3D14 30	04/14/2023	04/14/2023
Surrogate: Toluene-d8	87.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	0.876	0.499	meq/L	10	[CALC]	04/18/2023	04/19/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.51	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.41	pH Units	1	B3D1816	04/18/2023	04/19/2023
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## SAR by 20B Saturated Paste

SAR	4.65	SAR	1	B3D1811	04/18/2023	04/19/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.539	0.00500	mmhos/cm	1	B3D1816	04/18/2023	04/19/2023
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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 - UPRC H17-99HZ

FL-B01@3'

4/14/2023 12:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304348-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.122	0.101	mg/L	1	B3D1708	04/17/2023	04/18/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D1427	04/14/2023	04/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.4 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D1430	04/14/2023	04/14/2023	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

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 - UPRC H17-99HZ

FL-B01@3'

4/14/2023 12:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304348-02 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	76.0 %	70-130	B3D14 30	04/14/2023	04/14/2023
Surrogate: Toluene-d8	86.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	2.42	0.499	meq/L	10	[CALC]	04/18/2023	04/19/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.533	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	8.23	pH Units	1	B3D1816	04/18/2023	04/19/2023
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### SAR by 20B Saturated Paste

SAR	0.427	SAR	1	B3D1811	04/18/2023	04/19/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.434	0.00500	mmhos/cm	1	B3D1816	04/18/2023	04/19/2023
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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 - UPRC H17-99HZ

WH-BG01@3'

4/14/2023 12:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-03 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3D1708	04/17/2023	04/18/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	0.933	0.499	meq/L	10	[CALC]	04/18/2023	04/19/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.550	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	6.54		pH Units	1	B3D1816	04/18/2023	04/19/2023
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## SAR by 20B Saturated Paste

SAR	0.697		SAR	1	B3D1811	04/18/2023	04/19/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.264	0.00500	mmhos/cm	1	B3D1816	04/18/2023	04/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	1.48	0.0935	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Barium	31.3	9.35	"	"	"	"	"
Cadmium	0.100	0.0935	"	"	"	"	"
Copper	ND	9.35	"	"	"	"	"

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 - UPRC H17-99HZ

WH-BG01@3'

4/14/2023 12:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-03 (Soil)

### Table 915 metals by EPA 6020B

Lead	ND	9.35	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Nickel	ND	9.35	"	"	"	"	"
Selenium	ND	0.0935	"	"	"	"	"
Silver	ND	0.0935	"	"	"	"	"
Zinc	ND	93.5	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	1	L678927	04/14/2023	04/28/2023
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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 - UPRC H17-99HZ

WH-BG01@6'

4/14/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-04 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.143	0.0984	mg/L	1	B3D1708	04/17/2023	04/18/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	6.74	0.499	meq/L	10	[CALC]	04/18/2023	04/19/2023
Magnesium	2.75	0.823	"	"	"	"	"
Sodium	2.90	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.90		pH Units	1	B3D1816	04/18/2023	04/19/2023
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## SAR by 20B Saturated Paste

SAR	1.33		SAR	1	B3D1811	04/18/2023	04/19/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.36	0.00500	mmhos/cm	1	B3D1816	04/18/2023	04/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.03	0.0951	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Barium	90.8	9.51	"	"	"	"	"
Cadmium	ND	0.0951	"	"	"	"	"
Copper	ND	9.51	"	"	"	"	"

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 - UPRC H17-99HZ

WH-BG01@6'

4/14/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-04 (Soil)

### Table 915 metals by EPA 6020B

Lead	ND	9.51	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Nickel	ND	9.51	"	"	"	"	"
Selenium	ND	0.0951	"	"	"	"	"
Silver	ND	0.0951	"	"	"	"	"
Zinc	ND	95.1	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	1	L678927	04/14/2023	04/28/2023
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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.

Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

WH-BG02@3'

4/14/2023 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-05 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B3D1708	04/17/2023	04/18/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	3.48	0.499	meq/L	10	[CALC]	04/18/2023	04/19/2023
Magnesium	1.37	0.823	"	"	"	"	"
Sodium	0.575	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	6.40		pH Units	1	B3D1816	04/18/2023	04/19/2023
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## SAR by 20B Saturated Paste

SAR	0.369		SAR	1	B3D1811	04/18/2023	04/19/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.811	0.00500	mmhos/cm	1	B3D1816	04/18/2023	04/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	1.52	0.0944	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Barium	38.1	9.44	"	"	"	"	"
Cadmium	ND	0.0944	"	"	"	"	"
Copper	ND	9.44	"	"	"	"	"

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 - UPRC H17-99HZ

WH-BG02@3'

4/14/2023 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-05 (Soil)

### Table 915 metals by EPA 6020B

Lead	ND	9.44	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Nickel	ND	9.44	"	"	"	"	"
Selenium	ND	0.0944	"	"	"	"	"
Silver	ND	0.0944	"	"	"	"	"
Zinc	ND	94.4	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L678927	04/14/2023	04/28/2023
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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 - UPRC H17-99HZ

WH-BG02@6'

4/14/2023 12:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-06 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B3D1708	04/17/2023	04/18/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	2.50	0.499	meq/L	10	[CALC]	04/18/2023	04/19/2023
Magnesium	1.03	0.823	"	"	"	"	"
Sodium	0.468	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.47		pH Units	1	B3D1816	04/18/2023	04/19/2023
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## SAR by 20B Saturated Paste

SAR	0.353		SAR	1	B3D1811	04/18/2023	04/19/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.558	0.00500	mmhos/cm	1	B3D1816	04/18/2023	04/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	1.59	0.0941	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Barium	54.5	9.41	"	"	"	"	"
Cadmium	ND	0.0941	"	"	"	"	"
Copper	ND	9.41	"	"	"	"	"

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 - UPRC H17-99HZ

WH-BG02@6'

4/14/2023 12:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-06 (Soil)

### Table 915 metals by EPA 6020B

Lead	ND	9.41	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Nickel	ND	9.41	"	"	"	"	"
Selenium	ND	0.0941	"	"	"	"	"
Silver	ND	0.0941	"	"	"	"	"
Zinc	ND	94.1	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.508	mg/Kg	1	L678927	04/14/2023	04/28/2023
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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 - UPRC H17-99HZ

WH-BG03@3'

4/14/2023 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-07 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.126	0.0987	mg/L	1	B3D1708	04/17/2023	04/18/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	1.17	0.499	meq/L	10	[CALC]	04/18/2023	04/19/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.78		pH Units	1	B3D1816	04/18/2023	04/19/2023
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## SAR by 20B Saturated Paste

SAR	0.201		SAR	1	B3D1811	04/18/2023	04/19/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.241	0.00500	mmhos/cm	1	B3D1816	04/18/2023	04/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.28	0.0927	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Barium	61.3	9.27	"	"	"	"	"
Cadmium	ND	0.0927	"	"	"	"	"

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 - UPRC H17-99HZ

WH-BG03@3'

4/14/2023 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-07 (Soil)

### Table 915 metals by EPA 6020B

Copper	ND	9.27	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Lead	ND	9.27	"	"	"	"	"
Nickel	ND	9.27	"	"	"	"	"
Selenium	ND	0.0927	"	"	"	"	"
Silver	ND	0.0927	"	"	"	"	"
Zinc	ND	92.7	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L678927	04/14/2023	04/28/2023
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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 - UPRC H17-99HZ

WH-BG03@6'

4/14/2023 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-08 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.147	0.0993	mg/L	1	B3D1708	04/17/2023	04/18/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	1.51	0.499	meq/L	10	[CALC]	04/18/2023	04/19/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.51	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.24		pH Units	1	B3D1816	04/18/2023	04/19/2023
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## SAR by 20B Saturated Paste

SAR	1.48		SAR	1	B3D1811	04/18/2023	04/19/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.407	0.00500	mmhos/cm	1	B3D1816	04/18/2023	04/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	3.02	0.0955	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Barium	99.4	9.55	"	"	"	"	"
Cadmium	0.132	0.0955	"	"	"	"	"
Copper	ND	9.55	"	"	"	"	"

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 - UPRC H17-99HZ

WH-BG03@6'

4/14/2023 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-08 (Soil)

## Table 915 metals by EPA 6020B

Lead	ND	9.55	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Nickel	ND	9.55	"	"	"	"	"
Selenium	ND	0.0955	"	"	"	"	"
Silver	ND	0.0955	"	"	"	"	"
Zinc	ND	95.5	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L678927	04/14/2023	04/28/2023
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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 - UPRC H17-99HZ

WH-BG04@3'

4/14/2023 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-09 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.141	0.0995	mg/L	1	B3D1708	04/17/2023	04/18/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	5.48	0.499	meq/L	10	[CALC]	04/18/2023	04/19/2023
Magnesium	1.91	0.823	"	"	"	"	"
Sodium	1.13	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.06		pH Units	1	B3D1816	04/18/2023	04/19/2023
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## SAR by 20B Saturated Paste

SAR	0.590		SAR	1	B3D1811	04/18/2023	04/19/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.07	0.00500	mmhos/cm	1	B3D1816	04/18/2023	04/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	2.08	0.0928	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Barium	54.6	9.28	"	"	"	"	"
Cadmium	ND	0.0928	"	"	"	"	"
Copper	ND	9.28	"	"	"	"	"

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 - UPRC H17-99HZ

WH-BG04@3'

4/14/2023 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-09 (Soil)

### Table 915 metals by EPA 6020B

Lead	ND	9.28	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Nickel	ND	9.28	"	"	"	"	"
Selenium	ND	0.0928	"	"	"	"	"
Silver	ND	0.0928	"	"	"	"	"
Zinc	ND	92.8	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L678927	04/14/2023	04/28/2023
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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 - UPRC H17-99HZ

WH-BG04@6'

4/14/2023 12:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-10 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.0987	mg/L	1	B3D1708	04/17/2023	04/18/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	2.81	0.499	meq/L	10	[CALC]	04/18/2023	04/19/2023
Magnesium	1.00	0.823	"	"	"	"	"
Sodium	1.06	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.24		pH Units	1	B3D1817	04/18/2023	04/19/2023
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## SAR by 20B Saturated Paste

SAR	0.765		SAR	1	B3D1812	04/18/2023	04/19/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.568	0.00500	mmhos/cm	1	B3D1817	04/18/2023	04/19/2023
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## Table 915 metals by EPA 6020B

Arsenic	1.55	0.0904	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Barium	61.1	9.04	"	"	"	"	"
Cadmium	ND	0.0904	"	"	"	"	"
Copper	ND	9.04	"	"	"	"	"

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 - UPRC H17-99HZ

WH-BG04@6'

4/14/2023 12:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304348-10 (Soil)

### Table 915 metals by EPA 6020B

Lead	ND	9.04	mg/kg	10	B3D2423	04/24/2023	04/25/2023
Nickel	ND	9.04	"	"	"	"	"
Selenium	ND	0.0904	"	"	"	"	"
Silver	ND	0.0904	"	"	"	"	"
Zinc	ND	90.4	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	1	L678928	04/14/2023	04/28/2023
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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 - UPRC H17-99HZ

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 B3D1422 - EPA 3550B										
Blank (B3D1422-BLK1)					Prepared: 04/14/2023 Analyzed: 04/14/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		111	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 - UPRC H17-99HZ

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 B3D1422 - EPA 3550B										
LCS (B3D1422-BS1)					Prepared: 04/14/2023 Analyzed: 04/14/2023					
Diesel (C10-C28)	974	50.0	mg/kg	1000		97.4	70-130			
Residual Range Organics (C28-C40)	996	200	"	1000		99.6	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	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 - UPRC H17-99HZ

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 B3D1422 - EPA 3550B										
Matrix Spike (B3D1422-MS1)		Source: Y304306-01			Prepared: 04/14/2023 Analyzed: 04/14/2023					
Diesel (C10-C28)	996	50.0	mg/kg	1000	ND	99.6	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.3	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 - UPRC H17-99HZ

## 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 B3D1422 - EPA 3550B										
Matrix Spike Dup (B3D1422-MSD1)		Source: Y304306-01			Prepared: 04/14/2023 Analyzed: 04/14/2023					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	2.52	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	2.21	35	
Surrogate: o-Terphenyl	47		"	49.8		94.3	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

## 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 B3D1427 - EPA 3550B										
Blank (B3D1427-BLK1)					Prepared: 04/14/2023 Analyzed: 04/15/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		99.9	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

## 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 B3D1427 - EPA 3550B										
LCS (B3D1427-BS1)					Prepared: 04/14/2023 Analyzed: 04/15/2023					
Diesel (C10-C28)	957	50.0	mg/kg	1000		95.7	70-130			
Residual Range Organics (C28-C40)	978	200	"	1000		97.8	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

## 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 B3D1427 - EPA 3550B

Matrix Spike (B3D1427-MS1)		Source: Y304348-02			Prepared: 04/14/2023 Analyzed: 04/15/2023					
Diesel (C10-C28)	984	50.0	mg/kg	1000	ND	98.4	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

## 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 B3D1427 - EPA 3550B										
Matrix Spike Dup (B3D1427-MSD1)		Source: Y304348-02			Prepared: 04/14/2023 Analyzed: 04/15/2023					
Diesel (C10-C28)	984	50.0	mg/kg	1000	ND	98.4	70-130	0.0653	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	0.587	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

Origins Laboratory, Inc.



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Project Number: [none]  
Project: KMG - UPRC H17-99HZ

## 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 B3D1430 - EPA 5030 (soil)										
Blank (B3D1430-BLK1)					Prepared: 04/14/2023 Analyzed: 04/14/2023					
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	0.11		"	0.125		89.4	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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 - UPRC H17-99HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1430 - EPA 5030 (soil)</b>										
<b>LCS (B3D1430-BS1)</b>					Prepared: 04/14/2023 Analyzed: 04/14/2023					
1,2,4-Trimethylbenzene	0.0847	0.00200	mg/kg	0.100		84.7	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0988	0.00200	"	0.100		98.8	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100		92.4	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.0897	0.00200	"	0.100		89.7	70-130			
o-Xylene	0.0907	0.00200	"	0.100		90.7	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.1	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.2	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 - UPRC H17-99HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1430 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3D1430-MS1)</b>		<b>Source: Y304345-01</b>			Prepared: 04/14/2023 Analyzed: 04/14/2023					
1,2,4-Trimethylbenzene	0.0757	0.00200	mg/kg	0.100	ND	75.7	70-130			
1,3,5-Trimethylbenzene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
Benzene	0.0899	0.00200	"	0.100	ND	89.9	70-130			
Ethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130			
Toluene	0.0769	0.00200	"	0.100	ND	76.9	70-130			
o-Xylene	0.0882	0.00200	"	0.100	ND	88.2	70-130			
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		86.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		115	70-130			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1430 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3D1430-MSD1)</b>		<b>Source: Y304345-01</b>			Prepared: 04/14/2023 Analyzed: 04/14/2023					
1,2,4-Trimethylbenzene	0.0620	0.00200	mg/kg	0.100	ND	62.0	70-130	19.8	20	QM-07
1,3,5-Trimethylbenzene	0.0738	0.00200	"	0.100	ND	73.8	70-130	29.2	20	QR-02
Benzene	0.0793	0.00200	"	0.100	ND	79.3	70-130	12.6	20	
Ethylbenzene	0.0687	0.00200	"	0.100	ND	68.7	70-130	27.4	20	QM-07
Naphthalene	0.0835	0.00380	"	0.100	ND	83.5	70-130	25.6	20	QR-02
Toluene	0.0681	0.00200	"	0.100	ND	68.1	70-130	12.1	20	QM-07
o-Xylene	0.0667	0.00200	"	0.100	ND	66.7	70-130	27.8	20	QM-07
m,p-Xylene	0.139	0.00400	"	0.200	ND	69.6	70-130	30.6	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		87.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

## 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 B3D2423 - EPA 3050B

#### Blank (B3D2423-BLK1)

Prepared: 04/24/2023 Analyzed: 04/25/2023

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

#### LCS (B3D2423-BS1)

Prepared: 04/24/2023 Analyzed: 04/25/2023

Arsenic	0.0515	0.000100	mg/kg	0.0500	103	80-120
Barium	5.16	0.0100	"	5.00	103	80-120
Cadmium	0.0515	0.000100	"	0.0500	103	80-120
Copper	0.530	0.0100	"	0.500	106	80-120
Lead	0.0503	0.0100	"	0.0500	101	80-120
Nickel	0.0523	0.0100	"	0.0500	105	80-120
Selenium	0.0497	0.000100	"	0.0500	99.4	80-120
Silver	0.0402	0.000100	"	0.0500	80.4	80-120
Zinc	0.498	0.100	"	0.500	99.5	80-120

#### Matrix Spike (B3D2423-MS1)

Source: Y304078-04

Prepared: 04/24/2023 Analyzed: 04/25/2023

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2423 - EPA 3050B</b>										
<b>Matrix Spike (B3D2423-MS1)</b>		<b>Source: Y304078-04</b>			Prepared: 04/24/2023 Analyzed: 04/25/2023					
Arsenic	5.74	0.0918	mg/kg	4.59	1.25	97.8	75-125			
Barium	505	9.18	"	459	48.8	99.4	75-125			
Cadmium	4.71	0.0918	"	4.59	0.0491	102	75-125			
Copper	49.8	9.18	"	45.9	3.19	102	75-125			
Lead	7.85	9.18	"	4.59	4.60	70.9	75-125			QM-07
Nickel	7.77	9.18	"	4.59	3.34	96.7	75-125			
Selenium	4.51	0.0918	"	4.59	0.0793	96.7	75-125			
Silver	3.62	0.0918	"	4.59	0.0170	78.5	75-125			
Zinc	58.1	91.8	"	45.9	14.3	95.4	75-125			
<b>Matrix Spike Dup (B3D2423-MSD1)</b>		<b>Source: Y304078-04</b>			Prepared: 04/24/2023 Analyzed: 04/25/2023					
Arsenic	6.04	0.0940	mg/kg	4.70	1.25	102	75-125	5.05	20	
Barium	528	9.40	"	470	48.8	102	75-125	4.57	20	
Cadmium	4.86	0.0940	"	4.70	0.0491	102	75-125	3.05	20	
Copper	51.1	9.40	"	47.0	3.19	102	75-125	2.56	20	
Lead	8.32	9.40	"	4.70	4.60	79.1	75-125	5.72	20	
Nickel	8.06	9.40	"	4.70	3.34	101	75-125	3.65	20	
Selenium	4.49	0.0940	"	4.70	0.0793	93.8	75-125	0.537	20	
Silver	3.73	0.0940	"	4.70	0.0170	79.0	75-125	3.14	20	
Zinc	60.5	94.0	"	47.0	14.3	98.2	75-125	4.05	20	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

## 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 B3D1708 - DTPA Sorbitol Preparation

##### Blank (B3D1708-BLK1)

Prepared: 04/17/2023 Analyzed: 04/18/2023

Boron ND 0.100 mg/L

##### Duplicate (B3D1708-DUP1)

Source: Y304245-01

Prepared: 04/17/2023 Analyzed: 04/18/2023

Boron 0.522 0.0982 mg/L 0.476 9.20 50

#### Batch B3D1811 - Saturated Paste Metals

##### Blank (B3D1811-BLK1)

Prepared: 04/18/2023 Analyzed: 04/19/2023

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

##### Duplicate (B3D1811-DUP1)

Source: Y304345-01

Prepared: 04/18/2023 Analyzed: 04/19/2023

SAR 0.00 SAR 11.7 200 200  
Calcium PPM 26.2 10.0 mg/L 29.2 11.2 50  
Magnesium PPM 23.6 10.0 " 26.8 12.7 50  
Sodium PPM 340 10.0 " 365 6.92 50

#### Batch B3D1812 - Saturated Paste Metals

##### Blank (B3D1812-BLK1)

Prepared: 04/18/2023 Analyzed: 04/19/2023

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

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

## 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 B3D1812 - Saturated Paste Metals

Duplicate (B3D1812-DUP1)		Source: Y304204-01			Prepared: 04/18/2023 Analyzed: 04/19/2023					
SAR	0.00		SAR	0.333				200	200	
Calcium PPM	84.1	10.0	mg/L	128				41.8	50	
Magnesium PPM	31.0	10.0	"	48.0				43.2	50	
Sodium PPM	13.5	10.0	"	17.5				25.6	50	

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC  
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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - UPRC H17-99HZ

## 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 B3D1816 - Saturated Paste pH/EC

#### Blank (B3D1816-BLK1)

Prepared: 04/18/2023 Analyzed: 04/19/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B3D1816-DUP1)

Source: Y304345-01

Prepared: 04/18/2023 Analyzed: 04/19/2023

Specific Conductance (EC)	1.94	0.00500	mmhos/cm	2.06	5.84	25
pH	7.98		pH Units	7.95	0.377	25

### Batch B3D1817 - Saturated Paste pH/EC

#### Blank (B3D1817-BLK1)

Prepared: 04/18/2023 Analyzed: 04/19/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B3D1817-DUP1)

Source: Y304204-01

Prepared: 04/18/2023 Analyzed: 04/19/2023

Specific Conductance (EC)	1.58	0.00500	mmhos/cm	2.09	27.7	25	QR-DUP
pH	6.35		pH Units	6.22	2.07	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 - UPRC H17-99HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L678928 -</b>										
<b>DUP (L 83382-DUP)</b>		<b>Source: Y304348-10</b>			Prepared: Analyzed: 04/28/2023					
Chromium, Hexavalent	ND	1	mg/Kg		<1.00	-		0	20	
<b>MS (L 83382-MS)</b>		<b>Source: Y304348-10</b>			Prepared: Analyzed: 04/28/2023					
Chromium, Hexavalent	34.3	2.53	mg/Kg	40.5	<1.23	85	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 04/28/2023					
Chromium, Hexavalent	6.21	0.5	mg/Kg	8		78	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 04/28/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - UPRC H17-99HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L678927 -										
DUP (L 83342-DUP)		Source: 83342			Prepared: Analyzed: 04/28/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 83342-MS)		Source: 83342			Prepared: Analyzed: 04/28/2023					
Chromium, Hexavalent	36.8	2.55	mg/Kg	40.8	<1.24	90	75-125			

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 - UPRC H17-99HZ

### Notes and Definitions

U Sample is Non-Detect.

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

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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