



Ensolum

May 27, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Megan H 16-18,20,21 Facility Project Number - 09A14171047

Attached are your analytical results for KMG - Megan H 16-18,20,21 Facility received by Origins Laboratory April 30, 2025. This project is associated with Origins project number E5E0024-01.

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

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

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

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

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

Origins Laboratory
303.433.1322
projectmanager@originslab.com



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



Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A14171047
Project: KMG - Megan H 16-18,20,21 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0.5'	E5E0024-01	Soil	April 30, 2025 14:15	04/30/2025 17:25
AST02@0.5'	E5E0024-02	Soil	April 30, 2025 14:17	04/30/2025 17:25
SEP01-OUTLET@4'	E5E0024-03	Soil	April 30, 2025 15:04	04/30/2025 17:25
SEP02-OUTLET@4'	E5E0024-04	Soil	April 30, 2025 15:20	04/30/2025 17:25
SEP03-OUTLET@3'	E5E0024-05	Soil	April 30, 2025 15:03	04/30/2025 17:25
SEP02-INLET@3'	E5E0024-06	Soil	April 30, 2025 15:40	04/30/2025 17:25
SEP03-INLET@3'	E5E0024-07	Soil	April 30, 2025 15:30	04/30/2025 17:25
TB-B01@0.5'	E5E0024-08	Soil	April 30, 2025 14:28	04/30/2025 17:25
AST01@0.5'-V	E5E0024-09	Soil	April 30, 2025 14:16	04/30/2025 17:25
AST02@0.5'-V	E5E0024-10	Soil	April 30, 2025 14:18	04/30/2025 17:25
SEP01-OUTLET@4'-V	E5E0024-11	Soil	April 30, 2025 15:05	04/30/2025 17:25
SEP02-OUTLET@4'-V	E5E0024-12	Soil	April 30, 2025 15:21	04/30/2025 17:25
SEP03-OUTLET@4'-V	E5E0024-13	Soil	April 30, 2025 15:04	04/30/2025 17:25
SEP02-INLET@3'-V	E5E0024-14	Soil	April 30, 2025 15:41	04/30/2025 17:25

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Jeremy Espinoza
Project Number: 09A14171047
Project: KMG - Megan H 16-18,20,21 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP03-INLET@3'-V	E5E0024-15	Soil	April 30, 2025 15:31	04/30/2025 17:25

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ORIGINS LABORATORY

Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility



Please Provide Partial Report When Available

Client: Ensolum
 Address: _____
 Project Manager: J Espinoza
 Key: _____

Telephone Number: _____
 Email Address: KAGTeam
 Project Name: Megan H 16-18,20,21 Facility
 Project Number: 09A14171047
 Collected By: JH
 M=Waste Water
 SW=Surface Water
 I=Liquid

S=oil | SO=Solid | O=Oil | A=Air | G=Gas | W=Vapors | HCl= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis				Comments
					H	V	G	A	
AST01E05	4/30	1415	3	WDP	X				
AST02E05	4/17	1417	1						
SEP04WLE04	1/504	1504	1						
SEP04WLE04	1/520	1520	1						
SEP04WLE04	1/503	1503	1						
SEP04WLE03	1/546	1546	1						
SEP04WLE03	1/530	1530	1						
TR01E05	4/28	1428	2		X	X	X	X	HPLC HPLC
AST01E05-V	4/16	1416	3						HPLC HPLC
AST01E05-V	4/18	1418	1						HPLC HPLC

Requisitioned By: Jen Pellegrini Date: 4/30/2025 Time: 1721
 Received By: JMA Date: 4/30/25 Time: 1725
 Turnaround Time: 48 Hr 72 Hr Standard

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Ensolum
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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility



ES00024

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Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis			Comments
SEN0-MILET04-V	4/30	1505	3	5	UOP	X		
SEN0-MILET04-V		1521						
SEN0-MILET04-V		1504						
SEN0-MILET04-V		1511						
SEN0-MILET03-V		1531						

Refrigerated By: [Signature] Date: 4/30/2015 Time: 1721
 Received By: JWA Date: 4/20/15 Time: 1725
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72

Client: Ensolum Project Manager: J Espinoza
 Address: _____ Project Name: Megan H 16-18,20,21 Facility
 Project Number: 09A14171047
 Telephone Number: _____ Collected By: SA
 Email Address: KMG@Ensolum.com Invoice/Billing Info: Ensolum
 S-Soil | SO-Solid | O-Soil | A-Air | G-Gas | W-Water | HCl = Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide
 W=Surface Water | W-Waste Water | L=Liquid

Origins Laboratory
[Signature]

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Ensolium
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A14171047
Project: KMG - Megan H 16-18,20,21 Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESE0024

Client: Ensolium

Client Project ID: Megan H 16-18, 20, 21 Fac.

Checklist Completed by: JAB/smc

Shipped Via: HD

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

Date/time completed: 5/01/25

Airbill #: N/A

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

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

Thermometer ID: T007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample 9 & 10 have 2 jars not 3
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaOH, NaOH, SrAc, NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JAB

5/12/25
Date/Time Reviewed

Origins Laboratory

EHO

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Ensolum
 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

AST01@0.5'
4/30/2025 2:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-01 (Soil)									
Enthalpy Analytical									
TOTAL METALS BY SW7199									
Chromium, Hexavalent	ND	0.08	0.20	mg/kg	1	BIE0530	05/12/2025	05/19/2025	
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.0995	mg/L	1	B5E0162	05/01/2025	05/06/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0233	05/02/2025	05/03/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	80.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	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

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AST01@0.5'
4/30/2025 2:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	U
Surrogate: 1,2-Dichloroethane-d4	117 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/07/2025	05/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.16		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U

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AST01@0.5'
4/30/2025 2:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.3 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.97			pH Units	1	B5E0714	05/07/2025	05/08/2025	
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SAR by 20B Saturated Paste

SAR	3.17		0.0100	SAR	1	B5E0703	05/07/2025	05/09/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.177		0.00500	mmhos/cm	1	B5E0714	05/07/2025	05/08/2025	
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AST01@0.5'
4/30/2025 2:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.34		0.263	mg/kg	10	B5E0157	05/01/2025	05/03/2025	
Barium	122		74.5	"	"	"	"	"	
Cadmium	ND		0.345	"	"	"	"	"	
Copper	ND		41.8	"	"	"	"	"	
Lead	ND		12.7	"	"	"	"	"	
Nickel	ND		23.6	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.726	"	"	"	"	"	
Zinc	ND		336	"	"	"	"	"	

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AST02@0.5'
4/30/2025 2:17:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-02 (Soil) Enthalpy Analytical									
TOTAL METALS BY SW7199									
Chromium, Hexavalent	0.09	0.08	0.20	mg/kg	1	BIE0530	05/12/2025	05/19/2025	J
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.100	mg/L	1	B5E0162	05/01/2025	05/06/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0233	05/02/2025	05/03/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	81.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	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

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AST02@0.5'
4/30/2025 2:17:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	U
Surrogate: 1,2-Dichloroethane-d4	117 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.78		0.499	meq/L	10	[CALC]	05/07/2025	05/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

AST02@0.5'

4/30/2025 2:17:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0024-02 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.69			pH Units	1	B5E0714	05/07/2025	05/08/2025	
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SAR by 20B Saturated Paste

SAR	0.0188		0.0100	SAR	1	B5E0703	05/07/2025	05/09/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.546		0.00500	mmhos/cm	1	B5E0714	05/07/2025	05/08/2025	
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 Project: KMG - Megan H 16-18,20,21 Facility

AST02@0.5'

4/30/2025 2:17:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0024-02 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	2.61		0.253	mg/kg	10	B5E0157	05/01/2025	05/03/2025	
Barium	ND		71.6	"	"	"	"	"	"
Cadmium	ND		0.332	"	"	"	"	"	"
Copper	ND		40.2	"	"	"	"	"	"
Lead	ND		12.2	"	"	"	"	"	"
Nickel	ND		22.7	"	"	"	"	"	"
Selenium	ND		0.227	"	"	"	"	"	"
Silver	ND		0.699	"	"	"	"	"	"
Zinc	ND		323	"	"	"	"	"	"

Origins Laboratory

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP01-OUTLET@4'
4/30/2025 3:04:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-03 (Soil) Enthalpy Analytical									
TOTAL METALS BY SW7199									
Chromium, Hexavalent	0.10	0.08	0.20	mg/kg	1	BIE0530	05/12/2025	05/19/2025	J
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.139		0.100	mg/L	1	B5E0162	05/01/2025	05/06/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0233	05/02/2025	05/03/2025	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	B5E0179	05/01/2025	05/06/2025	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

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP01-OUTLET@4'
4/30/2025 3:04:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-03 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	U
Surrogate: 1,2-Dichloroethane-d4	119 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.32		0.499	meq/L	10	[CALC]	05/07/2025	05/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP01-OUTLET@4'
4/30/2025 3:04:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-03 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.4 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.22			pH Units	1	B5E0714	05/07/2025	05/08/2025	
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SAR by 20B Saturated Paste

SAR	0.135		0.0100	SAR	1	B5E0703	05/07/2025	05/09/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.243		0.00500	mmhos/cm	1	B5E0714	05/07/2025	05/08/2025	
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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP01-OUTLET@4'
4/30/2025 3:04:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.06		0.256	mg/kg	10	B5E0157	05/01/2025	05/03/2025	
Barium	75.9		72.5	"	"	"	"	"	
Cadmium	ND		0.336	"	"	"	"	"	
Copper	ND		40.6	"	"	"	"	"	
Lead	ND		12.4	"	"	"	"	"	
Nickel	ND		23.0	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.707	"	"	"	"	"	
Zinc	ND		327	"	"	"	"	"	

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Jeremy Espinoza
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 Project: KMG - Megan H 16-18,20,21 Facility

SEP02-OUTLET@4'
4/30/2025 3:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-04 (Soil)
Enthalpy Analytical

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.11	0.08	0.19	mg/kg	1	BIE0530	05/12/2025	05/19/2025	J
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.161		0.101	mg/L	1	B5E0162	05/01/2025	05/06/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0233	05/02/2025	05/03/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.7 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	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

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Jeremy Espinoza
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 Project: KMG - Megan H 16-18,20,21 Facility

SEP02-OUTLET@4'
4/30/2025 3:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-04 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	U
Surrogate: 1,2-Dichloroethane-d4	119 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.32		0.499	meq/L	10	[CALC]	05/07/2025	05/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP02-OUTLET@4'
4/30/2025 3:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-04 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.5 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B5E0714	05/07/2025	05/08/2025	
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SAR by 20B Saturated Paste

SAR	0.381		0.0100	SAR	1	B5E0703	05/07/2025	05/09/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.287		0.00500	mmhos/cm	1	B5E0714	05/07/2025	05/08/2025	
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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP02-OUTLET@4'
4/30/2025 3:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.06		0.287	mg/kg	10	B5E0157	05/01/2025	05/03/2025	
Barium	84.8		81.0	"	"	"	"	"	
Cadmium	ND		0.375	"	"	"	"	"	
Copper	ND		45.4	"	"	"	"	"	
Lead	ND		13.8	"	"	"	"	"	
Nickel	ND		25.7	"	"	"	"	"	
Selenium	ND		0.257	"	"	"	"	"	
Silver	ND		0.790	"	"	"	"	"	
Zinc	ND		366	"	"	"	"	"	

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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP03-OUTLET@3'
4/30/2025 3:03:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-05 (Soil)
Enthalpy Analytical

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.10	0.08	0.20	mg/kg	1	BIE0530	05/12/2025	05/19/2025	J
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.167		0.101	mg/L	1	B5E0162	05/01/2025	05/06/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0233	05/02/2025	05/03/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.1 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	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

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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP03-OUTLET@3'
4/30/2025 3:03:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-05 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	U
Surrogate: 1,2-Dichloroethane-d4	119 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.47		0.499	meq/L	10	[CALC]	05/07/2025	05/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.965		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U

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SEP03-OUTLET@3'
4/30/2025 3:03:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-05 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.4 %			60-130		"	"	"	
Surrogate: Anthracene-d10	92.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B5E0714	05/07/2025	05/08/2025	
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SAR by 20B Saturated Paste

SAR	0.942		0.0100	SAR	1	B5E0703	05/07/2025	05/09/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.364		0.00500	mmhos/cm	1	B5E0714	05/07/2025	05/08/2025	
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 Project: KMG - Megan H 16-18,20,21 Facility

SEP03-OUTLET@3'
4/30/2025 3:03:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.40		0.245	mg/kg	10	B5E0157	05/01/2025	05/03/2025	
Barium	86.9		69.3	"	"	"	"	"	
Cadmium	ND		0.321	"	"	"	"	"	
Copper	ND		38.9	"	"	"	"	"	
Lead	ND		11.8	"	"	"	"	"	
Nickel	ND		22.0	"	"	"	"	"	
Selenium	ND		0.220	"	"	"	"	"	
Silver	ND		0.676	"	"	"	"	"	
Zinc	ND		313	"	"	"	"	"	

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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP02-INLET@3'
4/30/2025 3:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-06 (Soil) Enthalpy Analytical									
TOTAL METALS BY SW7199									
Chromium, Hexavalent	0.13	0.08	0.20	mg/kg	1	BIE0530	05/12/2025	05/19/2025	J
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.159		0.0985	mg/L	1	B5E0162	05/01/2025	05/06/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0233	05/02/2025	05/03/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	85.0 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	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

Origins Laboratory

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP02-INLET@3'
4/30/2025 3:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-06 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	U
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Surrogate: 1,2-Dichloroethane-d4	118 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.57		0.499	meq/L	10	[CALC]	05/07/2025	05/09/2025	
Magnesium	1.43		0.823	"	"	"	"	"	
Sodium	0.687		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory

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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP02-INLET@3'
4/30/2025 3:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-06 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B5E0714	05/07/2025	05/08/2025	
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SAR by 20B Saturated Paste

SAR	0.435		0.0100	SAR	1	B5E0703	05/07/2025	05/09/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.669		0.00500	mmhos/cm	1	B5E0714	05/07/2025	05/08/2025	
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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP02-INLET@3'
4/30/2025 3:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.20		0.273	mg/kg	10	B5E0157	05/01/2025	05/03/2025	
Barium	118		77.3	"	"	"	"	"	
Cadmium	ND		0.358	"	"	"	"	"	
Copper	ND		43.4	"	"	"	"	"	
Lead	ND		13.2	"	"	"	"	"	
Nickel	ND		24.5	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	
Silver	ND		0.754	"	"	"	"	"	
Zinc	ND		349	"	"	"	"	"	

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Jeremy Espinoza
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 Project: KMG - Megan H 16-18,20,21 Facility

SEP03-INLET@3'
4/30/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-07 (Soil)
Enthalpy Analytical

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.18	0.08	0.20	mg/kg	1	BIE0530	05/12/2025	05/19/2025	J
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.116		0.101	mg/L	1	B5E0162	05/01/2025	05/06/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0233	05/02/2025	05/03/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.1 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	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

Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP03-INLET@3'
4/30/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-07 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E0179	05/01/2025	05/06/2025	U
Surrogate: 1,2-Dichloroethane-d4	121 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.25		0.499	meq/L	10	[CALC]	05/07/2025	05/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U

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Jeremy Espinoza
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 Project: KMG - Megan H 16-18,20,21 Facility

SEP03-INLET@3'
4/30/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-07 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg	1	B5E0661	05/06/2025	05/10/2025	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
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	96.9 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.22			pH Units	1	B5E0714	05/07/2025	05/08/2025	
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SAR by 20B Saturated Paste

SAR	0.338		0.0100	SAR	1	B5E0703	05/07/2025	05/09/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.265		0.00500	mmhos/cm	1	B5E0714	05/07/2025	05/08/2025	
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 Project: KMG - Megan H 16-18,20,21 Facility

SEP03-INLET@3'
4/30/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.54		0.267	mg/kg	10	B5E0157	05/01/2025	05/03/2025	
Barium	93.6		75.6	"	"	"	"	"	
Cadmium	ND		0.350	"	"	"	"	"	
Copper	ND		42.4	"	"	"	"	"	
Lead	ND		12.9	"	"	"	"	"	
Nickel	ND		24.0	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.737	"	"	"	"	"	
Zinc	ND		341	"	"	"	"	"	

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 Project: KMG - Megan H 16-18,20,21 Facility

TB-B01@0.5'

4/30/2025 2:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-08 (Soil)									
Enthalpy Analytical									
TOTAL METALS BY SW7199									
Chromium, Hexavalent	ND	0.08	0.21	mg/kg	1	BIE0530	05/12/2025	05/19/2025	
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.102	mg/L	1	B5E0162	05/01/2025	05/06/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	0.543		0.499	meq/L	10	[CALC]	05/07/2025	05/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.11		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	7.79			pH Units	1	B5E0714	05/07/2025	05/08/2025	
SAR by 20B Saturated Paste									
SAR	1.61		0.0100	SAR	1	B5E0703	05/07/2025	05/09/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.267		0.00500	mmhos/cm	1	B5E0714	05/07/2025	05/08/2025	

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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

TB-B01@0.5'
4/30/2025 2:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0024-08 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.54		0.257	mg/kg	10	B5E0157	05/01/2025	05/03/2025	
Barium	ND		72.6	"	"	"	"	"	"
Cadmium	ND		0.336	"	"	"	"	"	"
Copper	ND		40.7	"	"	"	"	"	"
Lead	ND		12.4	"	"	"	"	"	"
Nickel	ND		23.0	"	"	"	"	"	"
Selenium	ND		0.230	"	"	"	"	"	"
Silver	ND		0.708	"	"	"	"	"	"
Zinc	ND		327	"	"	"	"	"	"

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Jeremy Espinoza
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 Project: KMG - Megan H 16-18,20,21 Facility

AST01@0.5'-V

4/30/2025 2:16:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-09 (Soil) Origins Laboratory									
pH in Soil by 9045D									
pH	9.24			pH Units	1	B5E0863	05/08/2025	05/12/2025	

Origins Laboratory

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Jeremy Espinoza
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 Project: KMG - Megan H 16-18,20,21 Facility

AST02@0.5'-V
4/30/2025 2:18:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-10 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	7.60			pH Units	1	B5E0863	05/08/2025	05/12/2025	

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Jeremy Espinoza
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 Project: KMG - Megan H 16-18,20,21 Facility

SEP01-OUTLET@4-V
4/30/2025 3:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-11 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	8.21			pH Units	1	B5E0863	05/08/2025	05/12/2025	

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SEP02-OUTLET@4-V
4/30/2025 3:21:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-12 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	8.23			pH Units	1	B5E0863	05/08/2025	05/12/2025	

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SEP03-OUTLET@4-V
4/30/2025 3:04:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-13 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	8.29			pH Units	1	B5E0863	05/08/2025	05/12/2025	

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SEP02-INLET@3'-V
4/30/2025 3:41:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-14 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	8.10			pH Units	1	B5E0863	05/08/2025	05/12/2025	

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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

SEP03-INLET@3'-V
4/30/2025 3:31:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0024-15 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	7.99			pH Units	1	B5E0863	05/08/2025	05/12/2025	

Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0162 - DTPA Sorbitol Preparation

Blank (B5E0162-BLK1)

Prepared: 05/01/2025 Analyzed: 05/06/2025

Boron ND 0.100 mg/L

Duplicate (B5E0162-DUP1)

Source: E5E0023-08

Prepared: 05/01/2025 Analyzed: 05/06/2025

Boron 0.914 0.100 mg/L 0.848 7.48 50

Batch B5E0703 - Saturated Paste Metals

Blank (B5E0703-BLK1)

Prepared: 05/07/2025 Analyzed: 05/09/2025

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 (B5E0703-DUP1)

Source: E5E0023-09

Prepared: 05/07/2025 Analyzed: 05/09/2025

SAR ND 0.0100 SAR 2.38 200

Calcium PPM 98.0 10.0 mg/L 130 28.2 50

Magnesium PPM 52.0 10.0 " 68.7 27.6 50

Sodium PPM 111 10.0 " 135 19.7 50

Origins Laboratory

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Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0661 - EPA 3580

Blank (B5E0661-BLK1)

Prepared: 05/06/2025 Analyzed: 05/10/2025

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 (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
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200	98.3	60-130
Surrogate: Anthracene-d10	180		"	200	92.4	60-130
Surrogate: Pyrene-d10	200		"	200	97.6	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	102	60-130

LCS (B5E0661-BS1)

Prepared: 05/06/2025 Analyzed: 05/10/2025

1-Methylnaphthalene	0.181	0.002	mg/kg	0.200	90.6	70-130
2-Methylnaphthalene	0.180	0.002	"	0.200	89.9	70-130
Acenaphthene	0.192	0.020	"	0.200	96.0	70-130
Anthracene	0.195	0.020	"	0.200	97.3	70-130
Benzo (a) anthracene	0.210	0.005	"	0.200	105	70-130
Benzo (a) pyrene	0.207	0.020	"	0.200	103	70-130

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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171047
 Project: KMG - Megan H 16-18,20,21 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0661 - EPA 3580

LCS (B5E0661-BS1)

Prepared: 05/06/2025 Analyzed: 05/10/2025

Benzo (b) fluoranthene	0.210	0.020	mg/kg	0.200		105	70-130			
Benzo (k) fluoranthene	0.215	0.020	"	0.200		108	70-130			
Chrysene	0.199	0.020	"	0.200		99.6	70-130			
Dibenz (a,h) anthracene	0.231	0.020	"	0.200		116	70-130			
Fluoranthene	0.200	0.020	"	0.200		100	70-130			
Fluorene	0.190	0.020	"	0.200		95.1	70-130			
Indeno (1,2,3-cd) pyrene	0.211	0.020	"	0.200		105	70-130			
Naphthalene	0.195	0.002	"	0.200		97.6	70-130			
Pyrene	0.205	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.4	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	190		"	200		96.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B5E0661-MS1)

Source: E5E0019-01

Prepared: 05/06/2025 Analyzed: 05/10/2025

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200	ND	89.4	70-130			
2-Methylnaphthalene	0.177	0.002	"	0.200	ND	88.5	70-130			
Acenaphthene	0.199	0.020	"	0.200	0.003	98.1	70-130			
Anthracene	0.195	0.020	"	0.200	0.009	93.2	70-130			
Benzo (a) anthracene	0.246	0.005	"	0.200	0.017	114	70-130			
Benzo (a) pyrene	0.204	0.020	"	0.200	0.012	95.8	70-130			
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.016	98.8	70-130			
Benzo (k) fluoranthene	0.234	0.020	"	0.200	0.008	113	70-130			
Chrysene	0.226	0.020	"	0.200	0.017	105	70-130			
Dibenz (a,h) anthracene	0.228	0.020	"	0.200	0.004	112	70-130			
Fluoranthene	0.280	0.020	"	0.200	0.047	116	70-130			
Fluorene	0.197	0.020	"	0.200	0.003	97.0	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0661 - EPA 3580

Matrix Spike (B5E0661-MS1)		Source: E5E0019-01			Prepared: 05/06/2025 Analyzed: 05/10/2025					
Indeno (1,2,3-cd) pyrene	0.203	0.020	mg/kg	0.200	0.010	96.4	70-130			
Naphthalene	0.193	0.002	"	0.200	ND	96.4	70-130			
Pyrene	0.257	0.020	"	0.200	0.035	111	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B5E0661-MSD1)		Source: E5E0019-01			Prepared: 05/06/2025 Analyzed: 05/10/2025					
1-Methylnaphthalene	0.179	0.002	mg/kg	0.200	ND	89.6	70-130	0.193	20	
2-Methylnaphthalene	0.178	0.002	"	0.200	ND	89.0	70-130	0.600	20	
Acenaphthene	0.194	0.020	"	0.200	0.003	95.6	70-130	2.51	20	
Anthracene	0.196	0.020	"	0.200	0.009	93.7	70-130	0.500	20	
Benzo (a) anthracene	0.225	0.005	"	0.200	0.017	104	70-130	8.67	20	
Benzo (a) pyrene	0.221	0.020	"	0.200	0.012	105	70-130	8.25	20	
Benzo (b) fluoranthene	0.228	0.020	"	0.200	0.016	106	70-130	6.47	20	
Benzo (k) fluoranthene	0.233	0.020	"	0.200	0.008	113	70-130	0.0761	20	
Chrysene	0.223	0.020	"	0.200	0.017	103	70-130	1.53	20	
Dibenz (a,h) anthracene	0.235	0.020	"	0.200	0.004	116	70-130	2.94	20	
Fluoranthene	0.265	0.020	"	0.200	0.047	109	70-130	5.52	20	
Fluorene	0.190	0.020	"	0.200	0.003	93.6	70-130	3.55	20	
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	0.010	101	70-130	4.77	20	
Naphthalene	0.190	0.002	"	0.200	ND	95.2	70-130	1.20	20	
Pyrene	0.247	0.020	"	0.200	0.035	106	70-130	3.92	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130			
Surrogate: Anthracene-d10	200		"	200		98.3	60-130			
Surrogate: Pyrene-d10	190		"	200		97.1	60-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0661 - EPA 3580

Matrix Spike Dup (B5E0661-MSD1)

Source: E5E0019-01

Prepared: 05/06/2025 Analyzed: 05/10/2025

Surrogate: Benzo (a) pyrene-d12	210		ug/kg	200	105		60-130			
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0233 - EPA 3550B										
Blank (B5E0233-BLK1) Prepared: 05/02/2025 Analyzed: 05/03/2025										
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		86.2	50-150			
LCS (B5E0233-BS1) Prepared: 05/02/2025 Analyzed: 05/03/2025										
Diesel (C10-C28)	924	50.0	mg/kg	1000		92.4	70-130			
Residual Range Organics (C28-C40)	905	200	"	1000		90.5	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			
Matrix Spike (B5E0233-MS1) Source: E5E0024-01 Prepared: 05/02/2025 Analyzed: 05/03/2025										
Diesel (C10-C28)	948	50.0	mg/kg	1000	ND	94.8	70-130			
Residual Range Organics (C28-C40)	947	200	"	1000	ND	94.7	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			
Matrix Spike Dup (B5E0233-MSD1) Source: E5E0024-01 Prepared: 05/02/2025 Analyzed: 05/03/2025										
Diesel (C10-C28)	952	50.0	mg/kg	1000	ND	95.2	70-130	0.333	35	
Residual Range Organics (C28-C40)	939	200	"	1000	ND	93.9	70-130	0.860	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0157 - EPA 3050B

Prepared: 05/01/2025 Analyzed: 05/03/2025

Blank (B5E0157-BLK1)

Arsenic	ND	0.290	mg/kg							
Barium	ND	82.0	"							
Cadmium	ND	0.380	"							
Copper	ND	46.0	"							
Lead	ND	14.0	"							
Nickel	ND	26.0	"							
Selenium	ND	0.260	"							
Silver	ND	0.800	"							
Zinc	ND	370	"							

LCS (B5E0157-BS1)

Prepared: 05/01/2025 Analyzed: 05/03/2025

Arsenic	5.47	0.290	mg/kg	5.00		109	80-120			
Barium	559	82.0	"	500		112	80-120			
Cadmium	5.92	0.380	"	5.00		118	80-120			
Copper	55.0	46.0	"	50.0		110	80-120			
Lead	5.36	14.0	"	5.00		107	80-120			
Nickel	5.44	26.0	"	5.00		109	80-120			
Selenium	5.21	0.260	"	5.00		104	80-120			
Silver	4.84	0.800	"	5.00		96.9	80-120			
Zinc	51.2	370	"	50.0		102	80-120			

Matrix Spike (B5E0157-MS1)

Source: E5E0023-01

Prepared: 05/01/2025 Analyzed: 05/03/2025

Arsenic	8.84	0.273	mg/kg	4.70	3.58	112	75-125			
Barium	801	77.1	"	470	215	125	75-125			
Cadmium	5.48	0.357	"	4.70	0.231	112	75-125			
Copper	63.4	43.3	"	47.0	13.5	106	75-125			
Lead	15.3	13.2	"	4.70	9.36	127	75-125			QM-07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0157 - EPA 3050B

Matrix Spike (B5E0157-MS1)

Source: E5E0023-01

Prepared: 05/01/2025 Analyzed: 05/03/2025

Nickel	14.0	24.5	mg/kg	4.70	8.74	111	75-125			
Selenium	4.90	0.245	"	4.70	0.208	99.6	75-125			
Silver	4.28	0.753	"	4.70	0.0316	90.4	75-125			
Zinc	90.5	348	"	47.0	42.3	103	75-125			

Matrix Spike Dup (B5E0157-MSD1)

Source: E5E0023-01

Prepared: 05/01/2025 Analyzed: 05/03/2025

Arsenic	8.99	0.266	mg/kg	4.58	3.58	118	75-125	1.69	20	
Barium	698	75.2	"	458	215	105	75-125	13.8	20	
Cadmium	5.09	0.348	"	4.58	0.231	106	75-125	7.33	20	
Copper	56.4	42.2	"	45.8	13.5	93.6	75-125	11.7	20	
Lead	13.1	12.8	"	4.58	9.36	81.1	75-125	15.9	20	
Nickel	14.3	23.8	"	4.58	8.74	121	75-125	2.39	20	
Selenium	5.05	0.238	"	4.58	0.208	106	75-125	3.04	20	
Silver	4.10	0.733	"	4.58	0.0316	88.9	75-125	4.26	20	
Zinc	81.4	339	"	45.8	42.3	85.3	75-125	10.7	20	

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Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0714 - Saturated Paste pH/EC

Blank (B5E0714-BLK1)

Prepared: 05/07/2025 Analyzed: 05/08/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5E0714-DUP1)

Source: E5E0023-09

Prepared: 05/07/2025 Analyzed: 05/08/2025

pH 8.14 pH Units 8.10 0.493 25

Specific Conductance (EC) 1.61 0.00500 mmhos/cm 1.91 17.0 25

Batch B5E0863 - Saturated Paste pH/EC

Duplicate (B5E0863-DUP1)

Source: E5D0871-40

Prepared: 05/08/2025 Analyzed: 05/12/2025

pH 8.33 pH Units 8.40 0.837 25

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0179 - EPA 5030 (soil)

Blank (B5E0179-BLK1)

Prepared: 05/01/2025 Analyzed: 05/06/2025

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
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

LCS (B5E0179-BS1)

Prepared: 05/01/2025 Analyzed: 05/06/2025

1,2,4-Trimethylbenzene	0.0929	0.00200	mg/kg	0.100		92.9	70-130			
1,3,5-Trimethylbenzene	0.0958	0.00200	"	0.100		95.8	70-130			
Benzene	0.0921	0.00200	"	0.100		92.1	70-130			
Ethylbenzene	0.0933	0.00200	"	0.100		93.3	70-130			
Toluene	0.0919	0.00200	"	0.100		91.9	70-130			
o-Xylene	0.0921	0.00200	"	0.100		92.1	70-130			
m,p-Xylene	0.182	0.00400	"	0.200		90.9	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.4	70-130			

Matrix Spike (B5E0179-MS1)

Source: E5E0013-01

Prepared: 05/01/2025 Analyzed: 05/06/2025

1,2,4-Trimethylbenzene	0.0936	0.00200	mg/kg	0.100	ND	93.6	70-130			
1,3,5-Trimethylbenzene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
Benzene	0.0913	0.00200	"	0.100	ND	91.3	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0179 - EPA 5030 (soil)

Matrix Spike (B5E0179-MS1)		Source: E5E0013-01			Prepared: 05/01/2025 Analyzed: 05/06/2025					
Ethylbenzene	0.0983	0.00200	mg/kg	0.100	0.000500	97.8	70-130			
Toluene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
o-Xylene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	0.00252	96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

Matrix Spike Dup (B5E0179-MSD1)		Source: E5E0013-01			Prepared: 05/01/2025 Analyzed: 05/06/2025					
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	ND	116	70-130	21.1	20	QR-02
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100	ND	119	70-130	20.0	20	
Benzene	0.116	0.00200	"	0.100	ND	116	70-130	24.0	20	QR-02
Ethylbenzene	0.121	0.00200	"	0.100	0.000500	121	70-130	20.8	20	QR-02
Toluene	0.116	0.00200	"	0.100	ND	116	70-130	23.2	20	QR-02
o-Xylene	0.119	0.00200	"	0.100	ND	119	70-130	22.1	20	QR-02
m,p-Xylene	0.243	0.00400	"	0.200	0.00252	120	70-130	21.5	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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TOTAL METALS BY SW7199 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIE0530 - No Prep IC-WET										
Blank (BIE0530-BLK1)										
					Prepared: 05/12/2025 Analyzed: 05/19/2025					
Chromium, Hexavalent	ND	0.005	mg/kg				-			
LCS (BIE0530-BS1)										
					Prepared: 05/12/2025 Analyzed: 05/19/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		109	80-120			
LCS (BIE0530-BS2)										
					Prepared: 05/12/2025 Analyzed: 05/19/2025					
Chromium, Hexavalent	8.90	1.00	mg/kg	8.73		102	80-120			
Matrix Spike (BIE0530-MS1)										
		Source: 25E0371-04			Prepared: 05/12/2025 Analyzed: 05/19/2025					
Chromium, Hexavalent	0.15	0.19	mg/kg	1.94	ND	7.97	75-125			M, J
Matrix Spike (BIE0530-MS2)										
		Source: 25E0371-04			Prepared: 05/12/2025 Analyzed: 05/20/2025					
Chromium, Hexavalent	1.10	0.20	mg/kg	0.994	ND	111	75-125			
Matrix Spike (BIE0530-MS3)										
		Source: 25E0371-04			Prepared: 05/12/2025 Analyzed: 05/20/2025					
Chromium, Hexavalent	2.02	0.20	mg/kg	1.99	ND	102	75-125			
Matrix Spike Dup (BIE0530-MSD1)										
		Source: 25E0371-04			Prepared: 05/12/2025 Analyzed: 05/19/2025					
Chromium, Hexavalent	1.14	0.21	mg/kg	2.07	ND	55.3	75-125	152	20	M

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171047

Project: KMG - Megan H 16-18,20,21 Facility

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.

M Matrix spike recovery is outside established acceptance limits

J The reported result is an estimated value.

J [Undefined]

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory

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.