



Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

July 11, 2025

Project Name - KMG - Pluss L 11-2D

Project Number - [none]

Attached are your analytical results for KMG - Pluss L 11-2D received by Origins Laboratory June 23, 2025. This project is associated with Origins project number E5F0475-01.

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





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

Dan Coloccia
Project Number: [none]
Project: KMG - Pluss L 11-2D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
InitialWasteCharacterization-01@ 3"	E5F0475-01	Soil	June 23, 2025 14:45	06/23/2025 16:29
InitialWasteCharacterization-02@ 3"	E5F0475-02	Soil	June 23, 2025 14:55	06/23/2025 16:29
InitialWasteCharacterization-03@ 3"	E5F0475-03	Soil	June 23, 2025 15:05	06/23/2025 16:29

Origins Laboratory

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ORIGINS LABORATORY

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

Dan Coloccia
Project Number: [none]
Project: KMG - Pluss L 11-2D

ORIGINS
LABORATORY


ESF0475

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: (202) 433-0479
Email Address: dcoloccia@eagle-environment.com

Project Manager: D. Coloccia
Project Name: Pluss L 11-10
Project Number: J5
Collected By: J5
Invoice/Billing Info: Impacted oxy
L=Liquid
WM=Waste Water

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
					Full Table 1-51		
Initial Waste characterization-01	6/13/25	1445	3	WUP	X		
Initial Waste characterization-02		1445					
Initial Waste characterization-03		1445					

Relinquished By: JS Date: 6/13/25 Time: 16:51
Received By: NKH Date: 06/13/25 Time: 16:29
Temp Received: 13.3°C
Received on Ice? Yes No
Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr
Standard

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ORIGINS LABORATORY

Eagle Environmental Consulting, LLC
8000 W 44th Ave
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Dan Coloccia
Project Number: [none]
Project: KMG - Pluss L 11-2D

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

Sample Receipt Checklist

Origins Work Order: ESFO475 Client: Eagle Environmental Consulting
Client Project ID: Pluss L 11-2D

Checklist Completed by: NB/MP Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 01/23/25 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 13.3° c

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"/>		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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

RF 6/13/25
Reviewed by (Project Manager) Date/Time Reviewed

Origins Laboratory

EHO

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Pluss L 11-2D

tialWasteCharacterization-01@
6/23/2025 2:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0475-01 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	4.16	0.160	0.399	mg/kg dry	1	2821865	06/30/2025	07/02/2025	
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.317		0.0999	mg/L	1	B5F2412	06/24/2025	06/25/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	13700		250	mg/kg	10	B5F2326	06/23/2025	06/24/2025	
Residual Range Organics (C28-C40)	2840		100	"	1	"	"	06/23/2025	
Surrogate: <i>o</i> -Terphenyl	124 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	93.3		5.00	mg/kg	2500	B5F2327	06/23/2025	06/23/2025	
1,3,5-Trimethylbenzene	58.0		5.00	"	"	"	"	"	
Benzene	9.64		0.500	"	250	"	"	06/23/2025	
Ethylbenzene	27.2		0.500	"	"	"	"	"	
Toluene	93.4		5.00	"	2500	"	"	06/23/2025	
Xylenes, total	284		5.00	"	"	"	"	"	
Gasoline Range Hydrocarbons	7680		500	"	"	"	"	"	

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tialWasteCharacterization-01@
6/23/2025 2:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0475-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	98.2 %			70-130		B5F2327	06/23/2025	06/23/2025	
Surrogate: Toluene-d8	96.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.925		0.499	meq/L	10	[CALC]	06/24/2025	06/25/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.70		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	26.4	0.040	0.200	mg/kg	100	B5F2317	06/23/2025	06/24/2025	
2-Methylnaphthalene	59.9	0.076	0.200	"	"	"	"	"	
Acenaphthene	0.349	0.002	0.200	"	10	"	"	06/23/2025	
Anthracene	0.169	0.004	0.200	"	"	"	"	"	R-05, Ja
Benzo (a) anthracene	0.028	0.009	0.050	"	"	"	"	"	R-05, Ja
Benzo (a) pyrene	0.027	0.003	0.200	"	"	"	"	"	R-05, Ja
Benzo (b) fluoranthene	0.223	0.006	0.200	"	"	"	"	"	
Benzo (k) fluoranthene	0.020	0.006	0.200	"	"	"	"	"	R-05, Ja
Chrysene	0.353	0.002	0.200	"	"	"	"	"	
Dibenz (a,h) anthracene	0.026	0.003	0.200	"	"	"	"	"	R-05, Ja
Fluoranthene	0.144	0.003	0.200	"	"	"	"	"	R-05, Ja
Fluorene	4.85	0.001	0.200	"	"	"	"	"	

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tialWasteCharacterization-01@
6/23/2025 2:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0475-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Indeno (1,2,3-cd) pyrene	0.017	0.007	0.200	mg/kg	10	B5F2317	06/23/2025	06/23/2025	R-05, Ja
Naphthalene	13.6	0.078	0.200	"	100	"	"	06/24/2025	
Pyrene	0.322	0.007	0.200	"	10	"	"	06/23/2025	
Surrogate: Fluorene-d10	99.3 %				60-130	"	"	"	
Surrogate: Anthracene-d10	96.7 %				60-130	"	"	"	
Surrogate: Pyrene-d10	94.1 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %				60-130	"	"	"	
pH in Soil by 9045D									
pH	8.16			pH Units	1	B5F2415	06/24/2025	06/25/2025	
SAR by 20B Saturated Paste									
SAR	4.96		0.0100	SAR	1	B5F2409	06/24/2025	06/25/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.577		0.00500	mmhos/cm	1	B5F2415	06/24/2025	06/25/2025	
Table 915 metals by EPA 6020B									
Arsenic	1.73		0.277	mg/kg	10	B5F2328	06/23/2025	06/24/2025	
Barium	678		78.3	"	"	"	"	"	

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 Project Number: [none]
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tialWasteCharacterization-01@
6/23/2025 2:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0475-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Cadmium	ND		0.363	mg/kg	10	B5F2328	06/23/2025	06/24/2025	
Copper	ND		43.9	"	"	"	"	"	
Lead	ND		13.4	"	"	"	"	"	
Nickel	ND		24.8	"	"	"	"	"	
Selenium	ND		0.248	"	"	"	"	"	
Silver	ND		0.764	"	"	"	"	"	
Zinc	ND		353	"	"	"	"	"	

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tialWasteCharacterization-02@
6/23/2025 2:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0475-02 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.136	0.341	mg/kg dry	1	2821865	06/30/2025	07/02/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.351		0.0998	mg/L	1	B5F2412	06/24/2025	06/25/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	11500		250	mg/kg	10	B5F2326	06/23/2025	06/24/2025	
Residual Range Organics (C28-C40)	2210		100	"	1	"	"	06/23/2025	
Surrogate: o-Terphenyl	110 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	43.5		5.00	mg/kg	2500	B5F2327	06/23/2025	06/23/2025	
1,3,5-Trimethylbenzene	26.8		5.00	"	"	"	"	"	
Benzene	9.68		0.500	"	250	"	"	06/23/2025	
Ethylbenzene	26.5		0.500	"	"	"	"	"	
Toluene	52.0		5.00	"	2500	"	"	06/23/2025	
Xylenes, total	140		5.00	"	"	"	"	"	
Gasoline Range Hydrocarbons	3730		500	"	"	"	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Pluss L 11-2D

tialWasteCharacterization-02@
6/23/2025 2:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0475-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		B5F2327	06/23/2025	06/23/2025	
Surrogate: Toluene-d8	99.5 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.961		0.499	meq/L	10	[CALC]	06/24/2025	06/25/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.90		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	19.6	0.040	0.200	mg/kg	100	B5F2317	06/23/2025	06/24/2025	
2-Methylnaphthalene	44.5	0.076	0.200	"	"	"	"	"	
Acenaphthene	0.210	0.002	0.200	"	10	"	"	06/23/2025	
Anthracene	0.070	0.004	0.200	"	"	"	"	"	R-05, Ja
Benzo (a) anthracene	0.019	0.009	0.050	"	"	"	"	"	R-05, Ja
Benzo (a) pyrene	0.017	0.003	0.200	"	"	"	"	"	R-05, Ja
Benzo (b) fluoranthene	0.078	0.006	0.200	"	"	"	"	"	R-05, Ja
Benzo (k) fluoranthene	0.025	0.006	0.200	"	"	"	"	"	R-05, Ja
Chrysene	0.170	0.002	0.200	"	"	"	"	"	R-05, Ja
Dibenz (a,h) anthracene	0.017	0.003	0.200	"	"	"	"	"	R-05, Ja
Fluoranthene	0.090	0.003	0.200	"	"	"	"	"	R-05, Ja
Fluorene	3.40	0.001	0.200	"	"	"	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Pluss L 11-2D

tialWasteCharacterization-02@
6/23/2025 2:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0475-02 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Indeno (1,2,3-cd) pyrene	0.015	0.007	0.200	mg/kg	10	B5F2317	06/23/2025	06/23/2025	R-05, Ja
Naphthalene	9.13	0.008	0.020	"	"	"	"	"	
Pyrene	0.204	0.007	0.200	"	"	"	"	"	
Surrogate: Fluorene-d10	98.3 %				60-130	"	"	"	
Surrogate: Anthracene-d10	94.6 %				60-130	"	"	"	
Surrogate: Pyrene-d10	95.5 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %				60-130	"	"	"	
pH in Soil by 9045D									
pH	8.34			pH Units	1	B5F2415	06/24/2025	06/25/2025	
SAR by 20B Saturated Paste									
SAR	2.57		0.0100	SAR	1	B5F2409	06/24/2025	06/25/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.450		0.00500	mmhos/cm	1	B5F2415	06/24/2025	06/25/2025	
Table 915 metals by EPA 6020B									
Arsenic	2.46		0.253	mg/kg	10	B5F2328	06/23/2025	06/24/2025	
Barium	665		71.5	"	"	"	"	"	

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tialWasteCharacterization-02@
6/23/2025 2:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0475-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Cadmium	ND		0.332	mg/kg	10	B5F2328	06/23/2025	06/24/2025	
Copper	ND		40.1	"	"	"	"	"	
Lead	22.1		12.2	"	"	"	"	"	
Nickel	ND		22.7	"	"	"	"	"	
Selenium	ND		0.227	"	"	"	"	"	
Silver	ND		0.698	"	"	"	"	"	
Zinc	ND		323	"	"	"	"	"	

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Dan Coloccia
 Project Number: [none]
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tialWasteCharacterization-03@
6/23/2025 3:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0475-03 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	0.211	0.138	0.345	mg/kg dry	1	2821865	06/30/2025	07/02/2025	J
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.311		0.0996	mg/L	1	B5F2412	06/24/2025	06/25/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	2400		25.0	mg/kg	1	B5F2326	06/23/2025	06/23/2025	
Residual Range Organics (C28-C40)	618		100	"	"	"	"	"	
Surrogate: o-Terphenyl	114 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	20.4		0.500	mg/kg	250	B5F2327	06/23/2025	06/23/2025	
1,3,5-Trimethylbenzene	12.5		0.500	"	"	"	"	"	
Benzene	0.516		0.0500	"	25	"	"	06/24/2025	
Ethylbenzene	2.04		0.0500	"	"	"	"	"	
Toluene	7.67		0.500	"	250	"	"	06/23/2025	
Xylenes, total	39.2		0.500	"	"	"	"	"	
Gasoline Range Hydrocarbons	1690		50.0	"	"	"	"	"	

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Pluss L 11-2D

tialWasteCharacterization-03@
6/23/2025 3:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0475-03 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	97.0 %			70-130		B5F2327	06/23/2025	06/23/2025	
Surrogate: Toluene-d8	96.5 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.691		0.499	meq/L	10	[CALC]	06/24/2025	06/25/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.41		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	4.08	0.004	0.020	mg/kg	10	B5F2317	06/23/2025	06/23/2025	
2-Methylnaphthalene	9.05	0.008	0.020	"	"	"	"	"	
Acenaphthene	0.052	0.002	0.200	"	"	"	"	"	R-05, Ja
Anthracene	0.025	0.004	0.200	"	"	"	"	"	R-05, Ja
Benzo (a) anthracene	0.010	0.009	0.050	"	"	"	"	"	R-05, Ja
Benzo (a) pyrene	0.015	0.003	0.200	"	"	"	"	"	R-05, Ja
Benzo (b) fluoranthene	0.025	0.006	0.200	"	"	"	"	"	R-05, Ja
Benzo (k) fluoranthene	0.010	0.006	0.200	"	"	"	"	"	R-05, Ja
Chrysene	0.044	0.002	0.200	"	"	"	"	"	R-05, Ja
Dibenz (a,h) anthracene	0.012	0.003	0.200	"	"	"	"	"	R-05, Ja
Fluoranthene	0.022	0.003	0.200	"	"	"	"	"	R-05, Ja
Fluorene	0.791	0.001	0.200	"	"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Pluss L 11-2D

tialWasteCharacterization-03@
6/23/2025 3:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0475-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Indeno (1,2,3-cd) pyrene	0.013	0.007	0.200	mg/kg	10	B5F2317	06/23/2025	06/23/2025	R-05, Ja
Naphthalene	1.86	0.008	0.020	"	"	"	"	"	"
Pyrene	0.054	0.007	0.200	"	"	"	"	"	R-05, Ja
Surrogate: Fluorene-d10	102 %				60-130	"	"	"	"
Surrogate: Anthracene-d10	92.4 %				60-130	"	"	"	"
Surrogate: Pyrene-d10	98.0 %				60-130	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %				60-130	"	"	"	"
pH in Soil by 9045D									
pH	8.30			pH Units	1	B5F2415	06/24/2025	06/25/2025	
SAR by 20B Saturated Paste									
SAR	5.48		0.0100	SAR	1	B5F2409	06/24/2025	06/25/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.521		0.00500	mmhos/cm	1	B5F2415	06/24/2025	06/25/2025	
Table 915 metals by EPA 6020B									
Arsenic	2.20		0.252	mg/kg	10	B5F2328	06/23/2025	06/24/2025	
Barium	586		71.1	"	"	"	"	"	

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tialWasteCharacterization-03@
6/23/2025 3:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0475-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Cadmium	ND		0.330	mg/kg	10	B5F2328	06/23/2025	06/24/2025	
Copper	ND		39.9	"	"	"	"	"	
Lead	ND		12.1	"	"	"	"	"	
Nickel	ND		22.6	"	"	"	"	"	
Selenium	ND		0.226	"	"	"	"	"	
Silver	ND		0.694	"	"	"	"	"	
Zinc	ND		321	"	"	"	"	"	

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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 B5F2409 - Saturated Paste Metals

Blank (B5F2409-BLK1)

Prepared: 06/24/2025 Analyzed: 06/25/2025

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

Duplicate (B5F2409-DUP1)

Source: E5F0475-01

Prepared: 06/24/2025 Analyzed: 06/25/2025

Calcium PPM	16.9	10.0	mg/L		18.5		9.02	50		
SAR	ND	0.0100	SAR		4.96			200		
Magnesium PPM	2.03	10.0	mg/L		2.27		11.2	50		
Sodium PPM	83.4	10.0	"		85.0		1.86	50		

Batch B5F2412 - DTPA Sorbitol Preparation

Blank (B5F2412-BLK1)

Prepared: 06/24/2025 Analyzed: 06/25/2025

Boron	ND	0.100	mg/L							
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Duplicate (B5F2412-DUP1)

Source: E5F0475-01

Prepared: 06/24/2025 Analyzed: 06/25/2025

Boron	0.312	0.100	mg/L		0.317		1.35	50		
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 Project: KMG - Pluss L 11-2D

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 B5F2317 - EPA 3580

Blank (B5F2317-BLK1)

Prepared: 06/23/2025 Analyzed: 06/23/2025

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	0.001	0.020	"							Ja
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	0.0009	0.020	"							Ja
Dibenz (a,h) anthracene	0.0004	0.020	"							Ja
Fluoranthene	ND	0.020	"							Ua
Fluorene	0.001	0.020	"							Ja
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	102	60-130
Surrogate: Anthracene-d10	190		"	200	92.7	60-130
Surrogate: Pyrene-d10	200		"	200	97.6	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	105	60-130

LCS (B5F2317-BS1)

Prepared: 06/23/2025 Analyzed: 06/23/2025

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	104	70-130
2-Methylnaphthalene	0.207	0.002	"	0.200	103	70-130
Acenaphthene	0.212	0.020	"	0.200	106	70-130
Anthracene	0.185	0.020	"	0.200	92.6	70-130

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 Project Number: [none]
 Project: KMG - Pluss L 11-2D

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 B5F2317 - EPA 3580

LCS (B5F2317-BS1)

Prepared: 06/23/2025 Analyzed: 06/23/2025

Benzo (a) anthracene	0.182	0.005	mg/kg	0.200		90.8	70-130			
Benzo (a) pyrene	0.213	0.020	"	0.200		106	70-130			
Benzo (b) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Benzo (g,h,i) perylene	0.216	0.020	"	0.200		108	70-130			
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.7	70-130			
Chrysene	0.190	0.020	"	0.200		94.8	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200		96.8	70-130			
Fluoranthene	0.199	0.020	"	0.200		99.3	70-130			
Fluorene	0.218	0.020	"	0.200		109	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200		97.6	70-130			
Naphthalene	0.204	0.002	"	0.200		102	70-130			
Phenanthrene	0.193	0.020	"	0.200		96.7	70-130			
Pyrene	0.195	0.020	"	0.200		97.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		87.9	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike (B5F2317-MS1)

Source: E5F0475-03

Prepared: 06/23/2025 Analyzed: 06/23/2025

1-Methylnaphthalene	1.17	0.020	mg/kg	0.200	4.08	NR	70-130			QM-07
2-Methylnaphthalene	2.27	0.020	"	0.200	9.05	NR	70-130			QM-07
Acenaphthene	0.354	0.200	"	0.200	0.052	151	70-130			QM-07
Anthracene	0.255	0.200	"	0.200	0.025	115	70-130			
Benzo (a) anthracene	0.219	0.050	"	0.200	0.010	104	70-130			
Benzo (a) pyrene	0.276	0.200	"	0.200	0.015	131	70-130			QM-07
Benzo (b) fluoranthene	0.274	0.200	"	0.200	0.025	125	70-130			
Benzo (g,h,i) perylene	0.277	0.200	"	0.200	0.012	133	70-130			QM-07

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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 B5F2317 - EPA 3580

Matrix Spike (B5F2317-MS1)		Source: E5F0475-03			Prepared: 06/23/2025 Analyzed: 06/23/2025					
Benzo (k) fluoranthene	0.257	0.200	mg/kg	0.200	0.010	124	70-130			
Chrysene	0.247	0.200	"	0.200	0.044	101	70-130			
Dibenz (a,h) anthracene	0.275	0.200	"	0.200	0.012	131	70-130			QM-07
Fluoranthene	0.255	0.200	"	0.200	0.022	116	70-130			
Fluorene	0.457	0.200	"	0.200	0.791	NR	70-130			QM-07
Indeno (1,2,3-cd) pyrene	0.265	0.200	"	0.200	0.013	126	70-130			
Naphthalene	0.649	0.020	"	0.200	1.86	NR	70-130			QM-07
Phenanthrene	0.414	0.200	"	0.200	0.765	NR	70-130			QM-07
Pyrene	0.252	0.200	"	0.200	0.054	99.0	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		90.5	60-130			
Surrogate: Pyrene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B5F2317-MSD1)		Source: E5F0475-03			Prepared: 06/23/2025 Analyzed: 06/23/2025					
1-Methylnaphthalene	4.34	0.020	mg/kg	0.200	4.08	131	70-130	115	20	QM-07, QR-DUP
2-Methylnaphthalene	9.35	0.020	"	0.200	9.05	148	70-130	122	20	QM-07, QR-DUP
Acenaphthene	0.354	0.200	"	0.200	0.052	151	70-130	0.182	20	QM-07
Anthracene	0.322	0.200	"	0.200	0.025	149	70-130	23.3	20	QM-07, QR-DUP
Benzo (a) anthracene	0.234	0.050	"	0.200	0.010	112	70-130	6.73	20	
Benzo (a) pyrene	0.296	0.200	"	0.200	0.015	141	70-130	7.16	20	QM-07
Benzo (b) fluoranthene	0.310	0.200	"	0.200	0.025	143	70-130	12.2	20	QM-07
Benzo (g,h,i) perylene	0.298	0.200	"	0.200	0.012	143	70-130	7.39	20	QM-07
Benzo (k) fluoranthene	0.268	0.200	"	0.200	0.010	129	70-130	4.20	20	
Chrysene	0.333	0.200	"	0.200	0.044	145	70-130	29.8	20	QM-07, QR-DUP

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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 B5F2317 - EPA 3580

Matrix Spike Dup (B5F2317-MSD1)

Source: E5F0475-03

Prepared: 06/23/2025 Analyzed: 06/23/2025

Dibenz (a,h) anthracene	0.286	0.200	mg/kg	0.200	0.012	137	70-130	4.07	20	QM-07
Fluoranthene	0.295	0.200	"	0.200	0.022	137	70-130	14.7	20	QM-07
Fluorene	1.15	0.200	"	0.200	0.791	177	70-130	86.0	20	QM-07, QR-DUP
Indeno (1,2,3-cd) pyrene	0.272	0.200	"	0.200	0.013	130	70-130	2.56	20	
Naphthalene	2.17	0.020	"	0.200	1.86	155	70-130	108	20	QM-07, QR-DUP
Phenanthrene	1.03	0.200	"	0.200	0.765	130	70-130	84.8	20	QR-DUP
Pyrene	0.285	0.200	"	0.200	0.054	116	70-130	12.4	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		96.0	60-130			
Surrogate: Pyrene-d10	190		"	200		96.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	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
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Batch B5F2326 - EPA 3550B

Prepared: 06/23/2025 Analyzed: 06/23/2025

Blank (B5F2326-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	29		"	24.9		115	50-150			

LCS (B5F2326-BS1)

Prepared: 06/23/2025 Analyzed: 06/23/2025

Diesel (C10-C28)	896	50.0	mg/kg	1000		89.6	70-130			
Residual Range Organics (C28-C40)	901	200	"	1000		90.1	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

Matrix Spike (B5F2326-MS1)

Source: E5F0475-03

Prepared: 06/23/2025 Analyzed: 06/23/2025

Diesel (C10-C28)	2230	50.0	mg/kg	1000	2400	NR	70-130			QM-07
Residual Range Organics (C28-C40)	1230	200	"	1000	618	61.1	70-130			QM-07
Surrogate: o-Terphenyl	63		"	49.8		126	50-150			

Matrix Spike Dup (B5F2326-MSD1)

Source: E5F0475-03

Prepared: 06/23/2025 Analyzed: 06/23/2025

Diesel (C10-C28)	2340	50.0	mg/kg	1000	2400	NR	70-130	4.78	35	QM-07
Residual Range Organics (C28-C40)	1260	200	"	1000	618	64.0	70-130	2.32	35	QM-07
Surrogate: o-Terphenyl	62		"	49.8		126	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 B5F2328 - EPA 3050B

Prepared: 06/23/2025 Analyzed: 06/24/2025

Blank (B5F2328-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 (B5F2328-BS1)

Prepared: 06/23/2025 Analyzed: 06/24/2025

Arsenic	5.81	0.290	mg/kg	5.00		116	80-120			
Barium	564	82.0	"	500		113	80-120			
Cadmium	5.96	0.380	"	5.00		119	80-120			
Copper	57.3	46.0	"	50.0		115	80-120			
Lead	5.51	14.0	"	5.00		110	80-120			
Nickel	6.01	26.0	"	5.00		120	80-120			
Selenium	5.91	0.260	"	5.00		118	80-120			
Silver	5.70	0.800	"	5.00		114	80-120			
Zinc	59.2	370	"	50.0		118	80-120			

Matrix Spike (B5F2328-MS1)

Source: E5F0482-01

Prepared: 06/23/2025 Analyzed: 06/24/2025

Arsenic	6.11	0.273	mg/kg	4.72	1.12	106	75-125			
Barium	509	77.3	"	472	12.4	105	75-125			
Cadmium	5.32	0.358	"	4.72	0.0123	113	75-125			
Copper	53.3	43.4	"	47.2	2.01	109	75-125			
Lead	6.94	13.2	"	4.72	1.94	106	75-125			

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 Project Number: [none]
 Project: KMG - Pluss L 11-2D

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 B5F2328 - EPA 3050B

Matrix Spike (B5F2328-MS1)

Source: E5F0482-01

Prepared: 06/23/2025 Analyzed: 06/24/2025

Nickel	6.92	24.5	mg/kg	4.72	1.68	111	75-125			
Selenium	5.20	0.245	"	4.72	0.0615	109	75-125			
Silver	5.16	0.754	"	4.72	0.00351	109	75-125			
Zinc	59.5	349	"	47.2	7.39	110	75-125			

Matrix Spike Dup (B5F2328-MSD1)

Source: E5F0482-01

Prepared: 06/23/2025 Analyzed: 06/24/2025

Arsenic	6.14	0.267	mg/kg	4.60	1.12	109	75-125	0.450	20	
Barium	508	75.4	"	460	12.4	108	75-125	0.328	20	
Cadmium	5.20	0.349	"	4.60	0.0123	113	75-125	2.25	20	
Copper	52.3	42.3	"	46.0	2.01	109	75-125	1.76	20	
Lead	6.95	12.9	"	4.60	1.94	109	75-125	0.195	20	
Nickel	7.20	23.9	"	4.60	1.68	120	75-125	3.91	20	
Selenium	5.16	0.239	"	4.60	0.0615	111	75-125	0.609	20	
Silver	5.03	0.736	"	4.60	0.00351	109	75-125	2.59	20	
Zinc	60.0	340	"	46.0	7.39	114	75-125	0.832	20	

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 Project: KMG - Pluss L 11-2D

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 B5F2415 - Saturated Paste pH/EC

Blank (B5F2415-BLK1)

Prepared: 06/24/2025 Analyzed: 06/25/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5F2415-DUP1)

Source: E5F0475-01

Prepared: 06/24/2025 Analyzed: 06/25/2025

Specific Conductance (EC) 0.575 0.00500 mmhos/cm 0.577 0.208 25

pH 8.21 pH Units 8.16 0.611 25

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Pluss L 11-2D

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 B5F2327 - EPA 5030 (soil)

Prepared: 06/23/2025 Analyzed: 06/23/2025

Blank (B5F2327-BLK1)

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	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

LCS (B5F2327-BS1)

Prepared: 06/23/2025 Analyzed: 06/23/2025

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	0.0976	0.00200	"	0.100	97.6		70-130			
Ethylbenzene	0.0993	0.00200	"	0.100	99.3		70-130			
Naphthalene	0.106	0.00380	"	0.100	106		70-130			
Toluene	0.0985	0.00200	"	0.100	98.5		70-130			
o-Xylene	0.102	0.00200	"	0.100	102		70-130			
m,p-Xylene	0.200	0.00400	"	0.200	100		70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.4		70-130			

Matrix Spike (B5F2327-MS1)

Source: E5F0481-01

Prepared: 06/23/2025 Analyzed: 06/23/2025

1,2,4-Trimethylbenzene	0.122	0.00200	mg/kg	0.100	0.00170	120	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 - Pluss L 11-2D

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 B5F2327 - EPA 5030 (soil)

Matrix Spike (B5F2327-MS1)		Source: E5F0481-01			Prepared: 06/23/2025 Analyzed: 06/23/2025					
1,3,5-Trimethylbenzene	0.127	0.00200	mg/kg	0.100	0.00104	126	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Naphthalene	0.126	0.00380	"	0.100	ND	126	70-130			
Toluene	0.108	0.00200	"	0.100	ND	108	70-130			
o-Xylene	0.126	0.00200	"	0.100	ND	126	70-130			
m,p-Xylene	0.231	0.00400	"	0.200	0.00130	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Matrix Spike Dup (B5F2327-MSD1)		Source: E5F0481-01			Prepared: 06/23/2025 Analyzed: 06/23/2025					
1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	0.00170	112	70-130	7.58	20	
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100	0.00104	118	70-130	6.83	20	
Benzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	7.62	20	
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130	0.966	20	
Naphthalene	0.124	0.00380	"	0.100	ND	124	70-130	1.52	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	6.72	20	
o-Xylene	0.117	0.00200	"	0.100	ND	117	70-130	6.98	20	
m,p-Xylene	0.225	0.00400	"	0.200	0.00130	112	70-130	2.99	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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 Project Number: [none]
 Project: KMG - Pluss L 11-2D

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2821865 - SW846 3060A										
BLANK (1206155795-BLK)										
					Prepared: 06/30/2025 Analyzed: 07/02/2025					
Hexavalent Chromium	ND	0.398	mg/kg dry				-			U
LCS (1206155796-BKS)										
					Prepared: 06/30/2025 Analyzed: 07/02/2025					
Hexavalent Chromium	3.24	0.314	mg/kg dry	3.14		103	80-120			
DUP (1206155797 D)										
					Source: 728902001 Prepared: 06/30/2025 Analyzed: 07/02/2025					
Hexavalent Chromium	ND	0.247	mg/kg dry		<0.0989		0-50	N/A	50	U
MS (1206155798 S)										
					Source: 728902001 Prepared: 06/30/2025 Analyzed: 07/02/2025					
Hexavalent Chromium	2.90	0.247	mg/kg dry	2.47	<0.0989	117	75-125			
ILCS (1206155801-ILCS)										
					Prepared: 06/30/2025 Analyzed: 07/02/2025					
Hexavalent Chromium	8.40	0.356	mg/kg dry	7.26		116	80-120			

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Project: KMG - Pluss L 11-2D

Notes and Definitions

- Ua Sample is Non-Detect.
 - U Result not detected above the detection limit
 - 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.
 - Ja Sample result was found between MDL and RL
 - J Greater than the detection limit but less than the reporting 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.

Origins Laboratory

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