



**Ensolum**

**December 17, 2025**

**Jeremy Espinoza**

**11049 W 44th Avenue, Suite 103**

**Wheat Ridge CO 80033**

**Project Name - KMG - HSR- Cleason 11-5,Bell  
12-5,Chaknova 14-5 WH**

**Project Number - 09A14171004**

Attached are your analytical results for KMG - HSR- Cleason 11-5,Bell 12-5,Chaknova 14-5 WH received by Origins Laboratory December 08, 2025. This project is associated with Origins project number E5L0213-01.

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.

The laboratory is TNI accredited by the Utah DHHS ELAP under certificate number CO010822024.

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**



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

Jeremy Espinoza  
Project Number: 09A14171004  
Project: KMG - HSR- Cleason 11-5,Bell  
12-5,Chaknova 14-5 WH

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-RISER(11-5)@4'	E5L0213-01	Soil	December 8, 2025 10:58	12/08/2025 16:16
B01(11-5)@5'	E5L0213-02	Soil	December 8, 2025 10:54	12/08/2025 16:16
WH-RISER(12-5)@4'	E5L0213-03	Soil	December 8, 2025 12:48	12/08/2025 16:16
B01(12-5)@5'	E5L0213-04	Soil	December 8, 2025 12:52	12/08/2025 16:16
WH-RISER(14-5)@4'	E5L0213-05	Soil	December 8, 2025 11:15	12/08/2025 16:16
B01(14-5)@5'	E5L0213-06	Soil	December 8, 2025 11:22	12/08/2025 16:16
Native-BG01@3'	E5L0213-07	Soil	December 8, 2025 13:39	12/08/2025 16:16
Native-BG02@3'	E5L0213-08	Soil	December 8, 2025 13:33	12/08/2025 16:16
Native-BG02@6'	E5L0213-09	Soil	December 8, 2025 14:08	12/08/2025 16:16
Native-BG03@3'	E5L0213-10	Soil	December 8, 2025 13:28	12/08/2025 16:16
Native-BG03@6'	E5L0213-11	Soil	December 8, 2025 14:01	12/08/2025 16:16
Native-BG04@3'	E5L0213-12	Soil	December 8, 2025 13:20	12/08/2025 16:16
Native-BG04@6'	E5L0213-13	Soil	December 8, 2025 13:55	12/08/2025 16:16

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.*



Client: ENSOLOM

Address: 11049 W 44th AVE. STE. 100

Telephone Number: Wheat Ridge, CO 80033

Email Address: KMG-Team

Project Manager: De-Emy ESO: NOZA

Project Name: HSE-CHALKOVIA 11-S HSE-REU 12-S, W=Water

Project Number: 09A14171004 Wellsends GW=Groundwater

Collected By: JR BM SW=Surface Water

Invoice/Billing Info: Initial 10xy 12BM #: 37381 L=Liquid

WW=Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas || UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis					Comments
							PH	EC	SAR	Boron	915-1 metals	
1	NATIVE-BG03E31	12/8/25	1328	3	S	UNP	X	X	X	X		
2	NATIVE-BG 03E61		1401									
3	NATIVE-BG 04E31		1320									
4	NATIVE-BG04E61		1355									
5												
6												
7												
8												
9												
10												

Relinquished By: [Signature]

Date: 12/8/25

Date:

Time: 1655

Time:

Received By: NKM

Received By:

Date: 12/08/25

Date:

Time: 16:16

Time:

Turnaround Time

SAME DAY  24 HR

48 Hr  72

Standard

Temp Received - 2.5°C

Received On Ice?  Yes  No

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E5L0213

Client: Ensolium

Client Project ID: HSR-Creason II-5

Checklist Completed by: gmc/NKM

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

Date/time completed: 12/09/12

Airbill #: N/A

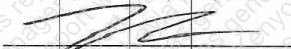
Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1/2.5 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T204

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTS due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

  
Reviewed by (Project Manager)

12/10/12  
Date/Time Reviewed



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

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**WH-RISER(11-5)@4'**  
**12/8/2025 10:58:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-01 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Total Metals by 7199</b>									
Chromium, Hexavalent	0.14	0.09	0.23	mg/kg dry	1	BIL0748	12/12/2025	12/17/2025	Ja
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.215		0.117	mg/L dry	1	5L10024	12/10/2025	12/11/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		28.9	mg/kg dry	1	5L10043	12/10/2025	12/10/2025	U
Residual Range Organics (C28-C36)	ND		116	"	"	"	"	"	U
Surrogate: o-Terphenyl	65.4 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND	0.0006	0.002	mg/kg dry	1	5L10019	12/10/2025	12/10/2025	U
1,3,5-Trimethylbenzene	ND	0.0006	0.002	"	"	"	"	"	U
Benzene	ND	0.0006	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.0006	0.002	"	"	"	"	"	U
Toluene	ND	0.0007	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.0003	0.002	"	"	"	"	"	U

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Kayla Kenyon For Jen Pellegrini, Project Manager



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**12/8/2025 10:58:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>GBTEX+TMBs by 8260D</b>									
Gasoline Range Hydrocarbons	0.097	0.045	0.232	mg/kg dry	1	5L10019	12/10/2025	12/10/2025	J
Surrogate: 1,2-Dichloroethane-d4	98.1 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %			70-130		"	"	"	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	ND		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.52		0.435	"	"	"	"	"	
<b>PAH by EPA 8270E extracted via 3580A</b>									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	5L09061	12/09/2025	12/09/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U

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**WH-RISER(11-5)@4'**  
**12/8/2025 10:58:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Chrysene	ND		0.023	mg/kg dry	1	5L09061	12/09/2025	12/09/2025	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U
Fluoranthene	ND		0.023	"	"	"	"	"	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U
Surrogate: Fluorene-d10	98.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %			60-130		"	"	"	
<b>Percent Solids</b>									
Total Solids, Percent	85.2			mass percent	1	5L09066	12/09/2025	12/09/2025	
<b>pH in Soil by 9045D</b>									
pH	7.59			pH Units	1	5L10034	12/10/2025	12/11/2025	
<b>SAR by 20B Saturated Paste</b>									

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**WH-RISER(11-5)@4'**  
**12/8/2025 10:58:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	2.95		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.324		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.91		0.226	mg/kg dry	10	5L09064	12/09/2025	12/10/2025	
Barium	94.6		63.8	"	"	"	"	"	
Cadmium	ND		0.296	"	"	"	"	"	U
Copper	ND		35.8	"	"	"	"	"	U
Lead	ND		10.9	"	"	"	"	"	U
Nickel	ND		20.2	"	"	"	"	"	U
Selenium	ND		0.191	"	"	"	"	"	U
Silver	ND		0.622	"	"	"	"	"	U
Zinc	ND		288	"	"	"	"	"	U

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 12-5,Chaknova 14-5 WH

**B01(11-5)@5'**  
**12/8/2025 10:54:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-02 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Total Metals by 7199</b>									
Chromium, Hexavalent	0.33	0.09	0.23	mg/kg dry	1	BIL0748	12/12/2025	12/17/2025	
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.290		0.114	mg/L dry	1	5L10024	12/10/2025	12/11/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		29.0	mg/kg dry	1	5L10043	12/10/2025	12/10/2025	U
Residual Range Organics (C28-C36)	ND		116	"	"	"	"	"	U
Surrogate: o-Terphenyl	65.4 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND	0.0006	0.002	mg/kg dry	1	5L10019	12/10/2025	12/10/2025	U
1,3,5-Trimethylbenzene	ND	0.0006	0.002	"	"	"	"	"	U
Benzene	ND	0.0006	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.0006	0.002	"	"	"	"	"	U
Toluene	ND	0.0007	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.0003	0.002	"	"	"	"	"	U

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 12-5,Chaknova 14-5 WH

**B01(11-5)@5'**  
**12/8/2025 10:54:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-02 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	0.104	0.045	0.230	mg/kg dry	1	5L10019	12/10/2025	12/10/2025	J
Surrogate: 1,2-Dichloroethane-d4	99.2 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.54		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	5L09061	12/09/2025	12/09/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U

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**B01(11-5)@5'**  
**12/8/2025 10:54:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-02 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.023	mg/kg dry	1	5L09061	12/09/2025	12/09/2025	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U
Fluoranthene	ND		0.023	"	"	"	"	"	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	91.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.4 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	87.4			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	7.88			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

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**B01(11-5)@5'**  
**12/8/2025 10:54:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	2.83		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.322		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.07		0.217	mg/kg dry	10	5L09064	12/09/2025	12/10/2025	
Barium	101		61.3	"	"	"	"	"	
Cadmium	ND		0.284	"	"	"	"	"	U
Copper	ND		34.4	"	"	"	"	"	U
Lead	ND		10.5	"	"	"	"	"	U
Nickel	ND		19.4	"	"	"	"	"	U
Selenium	ND		0.184	"	"	"	"	"	U
Silver	ND		0.598	"	"	"	"	"	U
Zinc	ND		277	"	"	"	"	"	U

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 12-5,Chaknova 14-5 WH

**WH-RISER(12-5)@4'**  
**12/8/2025 12:48:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-03 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Total Metals by 7199</b>									
Chromium, Hexavalent	0.10	0.09	0.22	mg/kg dry	1	BIL0748	12/12/2025	12/17/2025	Ja
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.165		0.108	mg/L dry	1	5L10024	12/10/2025	12/11/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		27.2	mg/kg dry	1	5L10043	12/10/2025	12/10/2025	U
Residual Range Organics (C28-C36)	ND		109	"	"	"	"	"	U
Surrogate: o-Terphenyl	80.0 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND	0.0006	0.002	mg/kg dry	1	5L10019	12/10/2025	12/10/2025	U
1,3,5-Trimethylbenzene	ND	0.0006	0.002	"	"	"	"	"	U
Benzene	ND	0.0005	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.0005	0.002	"	"	"	"	"	U
Toluene	ND	0.0007	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.0003	0.002	"	"	"	"	"	U

Origins Laboratory

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Kayla Kenyon For Jen Pellegrini, Project Manager



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

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**WH-RISER(12-5)@4'**  
**12/8/2025 12:48:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-03 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	0.102	0.043	0.222	mg/kg dry	1	5L10019	12/10/2025	12/10/2025	J
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Surrogate: 1,2-Dichloroethane-d4	98.8 %				70-130	"	"	"	
Surrogate: Toluene-d8	95.7 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %				70-130	"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.598		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.16		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	5L09061	12/09/2025	12/09/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U

Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**WH-RISER(12-5)@4'**  
**12/8/2025 12:48:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-03 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.022	mg/kg dry	1	5L09061	12/09/2025	12/09/2025	U
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	U
Fluoranthene	ND		0.022	"	"	"	"	"	U
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.022	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.1 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	94.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	91.6			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	8.39			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

Origins Laboratory

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Ensolium  
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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**WH-RISER(12-5)@4'**  
**12/8/2025 12:48:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-03 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	1.91		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.269		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.49		0.208	mg/kg dry	10	5L09064	12/09/2025	12/10/2025	
Barium	77.5		58.8	"	"	"	"	"	
Cadmium	ND		0.272	"	"	"	"	"	U
Copper	ND		33.0	"	"	"	"	"	U
Lead	ND		10.0	"	"	"	"	"	U
Nickel	ND		18.6	"	"	"	"	"	U
Selenium	ND		0.176	"	"	"	"	"	U
Silver	ND		0.574	"	"	"	"	"	U
Zinc	ND		265	"	"	"	"	"	U

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Kayla Kenyon For Jen Pellegrini, Project Manager



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

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**B01(12-5)@5'**  
**12/8/2025 12:52:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-04 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Total Metals by 7199</b>									
Chromium, Hexavalent	0.12	0.08	0.21	mg/kg dry	1	BIL0748	12/12/2025	12/17/2025	Ja
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.143		0.110	mg/L dry	1	5L10024	12/10/2025	12/11/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		27.7	mg/kg dry	1	5L10043	12/10/2025	12/10/2025	U
Residual Range Organics (C28-C36)	ND		111	"	"	"	"	"	U
Surrogate: o-Terphenyl	75.7 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND	0.0006	0.002	mg/kg dry	1	5L10019	12/10/2025	12/10/2025	U
1,3,5-Trimethylbenzene	ND	0.0006	0.002	"	"	"	"	"	U
Benzene	ND	0.0005	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.0005	0.002	"	"	"	"	"	U
Toluene	ND	0.0006	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.0003	0.002	"	"	"	"	"	U

Origins Laboratory

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Kayla Kenyon For Jen Pellegrini, Project Manager



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Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**B01(12-5)@5'**  
**12/8/2025 12:52:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-04 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	0.102	0.043	0.220	mg/kg dry	1	5L10019	12/10/2025	12/10/2025	J
Surrogate: 1,2-Dichloroethane-d4	99.4 %				70-130	"	"	"	
Surrogate: Toluene-d8	96.2 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %				70-130	"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.21		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.37		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	5L09061	12/09/2025	12/10/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U

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 12-5,Chaknova 14-5 WH

**B01(12-5)@5'**  
**12/8/2025 12:52:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-04 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.022	mg/kg dry	1	5L09061	12/09/2025	12/10/2025	U
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	U
Fluoranthene	ND		0.022	"	"	"	"	"	U
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.022	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.1 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	91.0			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	8.19			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A14171004  
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 12-5,Chaknova 14-5 WH

**B01(12-5)@5'**  
**12/8/2025 12:52:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-04 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	1.57		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.446		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.12		0.212	mg/kg dry	10	5L09064	12/09/2025	12/10/2025	
Barium	74.3		59.7	"	"	"	"	"	
Cadmium	ND		0.277	"	"	"	"	"	U
Copper	ND		33.5	"	"	"	"	"	U
Lead	ND		10.2	"	"	"	"	"	U
Nickel	ND		18.9	"	"	"	"	"	U
Selenium	ND		0.179	"	"	"	"	"	U
Silver	ND		0.583	"	"	"	"	"	U
Zinc	ND		270	"	"	"	"	"	U

Origins Laboratory

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Kayla Kenyon For Jen Pellegrini, Project Manager



Ensolium  
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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**WH-RISER(14-5)@4'**  
**12/8/2025 11:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-05 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Total Metals by 7199</b>									
Chromium, Hexavalent	0.14	0.09	0.23	mg/kg dry	1	BIL0748	12/12/2025	12/17/2025	Ja
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.119		0.116	mg/L dry	1	5L10024	12/10/2025	12/11/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	120		29.1	mg/kg dry	1	5L10043	12/10/2025	12/10/2025	
Residual Range Organics (C28-C36)	ND		116	"	"	"	"	"	U
Surrogate: o-Terphenyl	80.1 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	4.49	0.015	0.058	mg/kg dry	25	5L10019	12/10/2025	12/10/2025	
1,3,5-Trimethylbenzene	3.16	0.015	0.058	"	"	"	"	"	
Benzene	0.132	0.014	0.058	"	"	"	"	"	
Ethylbenzene	0.927	0.014	0.058	"	"	"	"	"	
Toluene	4.85	0.017	0.058	"	"	"	"	"	
Xylenes, total	17.9	0.007	0.058	"	"	"	"	"	
Gasoline Range Hydrocarbons	268	1.12	5.76	"	"	"	"	"	

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 12-5,Chaknova 14-5 WH

**WH-RISER(14-5)@4'**  
**12/8/2025 11:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-05 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	89.0 %			70-130		5L10019	12/10/2025	12/10/2025	
Surrogate: Toluene-d8	106 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.42		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.935		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	0.062		0.002	mg/kg dry	1	5L09061	12/09/2025	12/10/2025	
2-Methylnaphthalene	0.121		0.002	"	"	"	"	"	
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U
Chrysene	ND		0.023	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U

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 12-5,Chaknova 14-5 WH

**WH-RISER(14-5)@4'**  
**12/8/2025 11:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-05 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Fluoranthene	ND		0.023	mg/kg dry	1	5L09061	12/09/2025	12/10/2025	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	0.047		0.002	"	"	"	"	"	
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.5 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	108 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	85.5			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	7.94			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

SAR	0.786		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
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Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**WH-RISER(14-5)@4'**  
**12/8/2025 11:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-05 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.465		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.48		0.217	mg/kg dry	10	5L09064	12/09/2025	12/10/2025	
Barium	94.9		61.2	"	"	"	"	"	
Cadmium	ND		0.284	"	"	"	"	"	U
Copper	ND		34.3	"	"	"	"	"	U
Lead	12.0		10.4	"	"	"	"	"	
Nickel	ND		19.4	"	"	"	"	"	U
Selenium	ND		0.184	"	"	"	"	"	U
Silver	ND		0.597	"	"	"	"	"	U
Zinc	ND		276	"	"	"	"	"	U

Origins Laboratory

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Kayla Kenyon For Jen Pellegrini, Project Manager



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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**B01(14-5)@5'**  
**12/8/2025 11:22:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-06 (Soil)**  
**Enthalpy Analytical**

**Total Metals by 7199**

Chromium, Hexavalent	ND	0.09	0.23	mg/kg dry	1	BIL0748	12/12/2025	12/17/2025	
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	ND		0.115	mg/L dry	1	5L10024	12/10/2025	12/11/2025	U
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		29.5	mg/kg dry	1	5L10043	12/10/2025	12/10/2025	U
Residual Range Organics (C28-C36)	ND		118	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.9 %				50-150	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.0006	0.002	mg/kg dry	1	5L10019	12/10/2025	12/10/2025	U
1,3,5-Trimethylbenzene	ND	0.0006	0.002	"	"	"	"	"	U
Benzene	ND	0.0006	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.0006	0.002	"	"	"	"	"	U
Toluene	ND	0.0007	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.0003	0.002	"	"	"	"	"	U

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

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**B01(14-5)@5'**  
**12/8/2025 11:22:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-06 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>GBTEX+TMBs by 8260D</b>									
Gasoline Range Hydrocarbons	0.442	0.045	0.232	mg/kg dry	1	5L10019	12/10/2025	12/10/2025	
Surrogate: 1,2-Dichloroethane-d4	95.2 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %			70-130		"	"	"	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	0.805		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.76		0.435	"	"	"	"	"	
<b>PAH by EPA 8270E extracted via 3580A</b>									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	5L09061	12/09/2025	12/10/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U

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 12-5,Chaknova 14-5 WH

**B01(14-5)@5'**  
**12/8/2025 11:22:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-06 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.023	mg/kg dry	1	5L09061	12/09/2025	12/10/2025	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U
Fluoranthene	ND		0.023	"	"	"	"	"	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.7 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	86.1			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	8.31			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

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 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**B01(14-5)@5'**  
**12/8/2025 11:22:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-06 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	2.39		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.333		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	1.35		0.235	mg/kg dry	10	5L09064	12/09/2025	12/10/2025	
Barium	99.4		66.4	"	"	"	"	"	
Cadmium	ND		0.308	"	"	"	"	"	U
Copper	ND		37.2	"	"	"	"	"	U
Lead	ND		11.3	"	"	"	"	"	U
Nickel	ND		21.0	"	"	"	"	"	U
Selenium	ND		0.199	"	"	"	"	"	U
Silver	ND		0.648	"	"	"	"	"	U
Zinc	ND		300	"	"	"	"	"	U

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Kayla Kenyon For Jen Pellegrini, Project Manager



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 12-5,Chaknova 14-5 WH

**Native-BG01@3'**  
**12/8/2025 1:39:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-07 (Soil)**  
**Enthalpy Analytical**

**Total Metals by 7199**

Chromium, Hexavalent	ND	0.10	0.24	mg/kg dry	1	BIL0748	12/12/2025	12/17/2025	
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.117		0.116	mg/L dry	1	5L10024	12/10/2025	12/11/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.961		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.18		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	85.8			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	7.87			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

SAR	2.51		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
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 12-5,Chaknova 14-5 WH

**Native-BG01@3'**  
**12/8/2025 1:39:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-07 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.413		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	1.85		0.238	mg/kg dry	10	5L09064	12/09/2025	12/10/2025	
Barium	ND		67.3	"	"	"	"	"	U
Cadmium	ND		0.312	"	"	"	"	"	U
Copper	ND		37.7	"	"	"	"	"	U
Lead	ND		11.5	"	"	"	"	"	U
Nickel	ND		21.3	"	"	"	"	"	U
Selenium	ND		0.202	"	"	"	"	"	U
Silver	ND		0.656	"	"	"	"	"	U
Zinc	ND		303	"	"	"	"	"	U

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 12-5,Chaknova 14-5 WH

**Native-BG02@3'**  
**12/8/2025 1:33:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-08 (Soil)**  
**Enthalpy Analytical**

**Total Metals by 7199**

Chromium, Hexavalent	ND	0.10	0.24	mg/kg dry	1	BIL0748	12/12/2025	12/17/2025	
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	ND		0.116	mg/L dry	1	5L10024	12/10/2025	12/11/2025	U
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.694		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.75		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	85.3			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	7.82			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

SAR	2.49		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
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 12-5,Chaknova 14-5 WH

**Native-BG02@3'**  
**12/8/2025 1:33:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-08 (Soil)**  
**Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.326		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	1.74		0.236	mg/kg dry	10	5L09065	12/09/2025	12/11/2025	
Barium	ND		66.5	"	"	"	"	"	U
Cadmium	ND		0.308	"	"	"	"	"	U
Copper	ND		37.3	"	"	"	"	"	U
Lead	ND		11.4	"	"	"	"	"	U
Nickel	ND		21.1	"	"	"	"	"	U
Selenium	ND		0.200	"	"	"	"	"	U
Silver	ND		0.649	"	"	"	"	"	U
Zinc	ND		300	"	"	"	"	"	U

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Kayla Kenyon For Jen Pellegrini, Project Manager



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 12-5,Chaknova 14-5 WH

**Native-BG02@6'**  
**12/8/2025 2:08:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-09 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Total Metals by 7199</b>									
Chromium, Hexavalent	ND	0.10	0.25	mg/kg dry	1	BIL0748	12/12/2025	12/17/2025	
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.299		0.122	mg/L dry	1	5L10024	12/10/2025	12/11/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	0.919		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.06		0.435	"	"	"	"	"	
<b>Percent Solids</b>									
Total Solids, Percent	81.1			mass percent	1	5L09076	12/09/2025	12/09/2025	
<b>pH in Soil by 9045D</b>									
pH	8.30			pH Units	1	5L10034	12/10/2025	12/11/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	2.44		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	

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 12-5,Chaknova 14-5 WH

**Native-BG02@6'**  
**12/8/2025 2:08:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-09 (Soil)**  
**Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.423		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	4.79		0.231	mg/kg dry	10	5L09065	12/09/2025	12/11/2025	
Barium	102		65.2	"	"	"	"	"	
Cadmium	ND		0.302	"	"	"	"	"	U
Copper	ND		36.6	"	"	"	"	"	U
Lead	ND		11.1	"	"	"	"	"	U
Nickel	ND		20.7	"	"	"	"	"	U
Selenium	ND		0.195	"	"	"	"	"	U
Silver	ND		0.636	"	"	"	"	"	U
Zinc	ND		294	"	"	"	"	"	U

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 12-5,Chaknova 14-5 WH

**Native-BG03@3'**  
**12/8/2025 1:28:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-10 (Soil)**  
**Enthalpy Analytical**

**Total Metals by 7199**

Chromium, Hexavalent	ND	0.09	0.23	mg/kg dry	1	BIL0803	12/15/2025	12/16/2025	
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	ND		0.119	mg/L dry	1	5L10024	12/10/2025	12/11/2025	U
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.937		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.83		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	83.4			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	8.11			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

SAR	2.25		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
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 12-5,Chaknova 14-5 WH

**Native-BG03@3'**  
**12/8/2025 1:28:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-10 (Soil)**  
**Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.371		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	1.68		0.242	mg/kg dry	10	5L09065	12/09/2025	12/11/2025	
Barium	ND		68.1	"	"	"	"	"	U
Cadmium	ND		0.316	"	"	"	"	"	U
Copper	ND		38.2	"	"	"	"	"	U
Lead	ND		11.6	"	"	"	"	"	U
Nickel	ND		21.6	"	"	"	"	"	U
Selenium	ND		0.204	"	"	"	"	"	U
Silver	ND		0.665	"	"	"	"	"	U
Zinc	ND		307	"	"	"	"	"	U

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Kayla Kenyon For Jen Pellegrini, Project Manager



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 12-5,Chaknova 14-5 WH

**Native-BG03@6'**  
**12/8/2025 2:01:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-11 (Soil)**  
**Enthalpy Analytical**

**Total Metals by 7199**

Chromium, Hexavalent	ND	0.10	0.24	mg/kg dry	1	BIL0749	12/12/2025	12/16/2025	
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.240		0.121	mg/L dry	1	5L10024	12/10/2025	12/11/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.08		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.22		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	81.8			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	8.22			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

SAR	2.48		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**Native-BG03@6'**  
**12/8/2025 2:01:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-11 (Soil)**  
**Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.431		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	3.71		0.228	mg/kg dry	10	5L09065	12/09/2025	12/11/2025	
Barium	97.9		64.4	"	"	"	"	"	
Cadmium	ND		0.298	"	"	"	"	"	U
Copper	ND		36.1	"	"	"	"	"	U
Lead	ND		11.0	"	"	"	"	"	U
Nickel	ND		20.4	"	"	"	"	"	U
Selenium	ND		0.193	"	"	"	"	"	U
Silver	ND		0.628	"	"	"	"	"	U
Zinc	ND		290	"	"	"	"	"	U

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 12-5,Chaknova 14-5 WH

**Native-BG04@3'**  
**12/8/2025 1:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-12 (Soil)**  
**Enthalpy Analytical**

**Total Metals by 7199**

Chromium, Hexavalent	ND	0.10	0.25	mg/kg dry	1	BIL0749	12/12/2025	12/16/2025	
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	ND		0.125	mg/L dry	1	5L10024	12/10/2025	12/11/2025	U
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.785		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.83		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	79.4			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	7.74			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

SAR	2.43		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
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 12-5,Chaknova 14-5 WH

**Native-BG04@3'**  
**12/8/2025 1:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-12 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.372		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.06		0.254	mg/kg dry	10	5L09065	12/09/2025	12/11/2025	
Barium	ND		71.7	"	"	"	"	"	U
Cadmium	ND		0.332	"	"	"	"	"	U
Copper	ND		40.2	"	"	"	"	"	U
Lead	ND		12.2	"	"	"	"	"	U
Nickel	ND		22.7	"	"	"	"	"	U
Selenium	ND		0.215	"	"	"	"	"	U
Silver	ND		0.699	"	"	"	"	"	U
Zinc	ND		324	"	"	"	"	"	U

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Kayla Kenyon For Jen Pellegrini, Project Manager



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 12-5,Chaknova 14-5 WH

**Native-BG04@6'**  
**12/8/2025 1:55:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0213-13 (Soil)**  
**Enthalpy Analytical**

**Total Metals by 7199**

Chromium, Hexavalent	ND	0.10	0.25	mg/kg dry	1	BIL0749	12/12/2025	12/16/2025	
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	ND		0.126	mg/L dry	1	5L10024	12/10/2025	12/11/2025	U
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.722		0.499	meq/L	10	[CALC]	12/10/2025	12/11/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.77		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	78.2			mass percent	1	5L09076	12/09/2025	12/09/2025	
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**pH in Soil by 9045D**

pH	7.87			pH Units	1	5L10034	12/10/2025	12/11/2025	
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**SAR by 20B Saturated Paste**

SAR	2.47		0.0100	SAR	1	5L10029	12/10/2025	12/11/2025	
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 12-5,Chaknova 14-5 WH

**Native-BG04@6'**  
**12/8/2025 1:55:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0213-13 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.343		0.00500	mmhos/cm	1	5L10034	12/10/2025	12/11/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	1.89		0.255	mg/kg dry	10	5L09065	12/09/2025	12/11/2025	
Barium	ND		71.9	"	"	"	"	"	U
Cadmium	ND		0.333	"	"	"	"	"	U
Copper	ND		40.3	"	"	"	"	"	U
Lead	ND		12.3	"	"	"	"	"	U
Nickel	ND		22.8	"	"	"	"	"	U
Selenium	ND		0.216	"	"	"	"	"	U
Silver	ND		0.701	"	"	"	"	"	U
Zinc	ND		324	"	"	"	"	"	U

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 12-5,Chaknova 14-5 WH

**\*\*\* DEFAULT GENERAL METHOD \*\*\* - 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 5L09066 - % Solids**

**Duplicate (5L09066-DUP1)** **Source: E5L0187-02** Prepared: 12/09/2025 Analyzed: 12/09/2025

Total Solids, Percent	78.2		mass percent		78.1			0.108	20	
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**Duplicate (5L09066-DUP2)** **Source: E5L0187-03** Prepared: 12/09/2025 Analyzed: 12/09/2025

Total Solids, Percent	76.6		mass percent		77.0			0.458	20	
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**Batch 5L09076 - % Solids**

**Duplicate (5L09076-DUP1)** **Source: E5L0213-02** Prepared: 12/09/2025 Analyzed: 12/09/2025

Total Solids, Percent	87.1		mass percent		87.4			0.395	20	
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**Duplicate (5L09076-DUP2)** **Source: E5L0213-03** Prepared: 12/09/2025 Analyzed: 12/09/2025

Total Solids, Percent	91.5		mass percent		91.6			0.0780	20	
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Kayla Kenyon For Jen Pellegrini, Project Manager



Ensolium  
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 12-5,Chaknova 14-5 WH

**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 5L10024 - DTPA Sorbitol Preparation**

**Blank (5L10024-BLK1)**

Prepared: 12/10/2025 Analyzed: 12/11/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
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**Duplicate (5L10024-DUP1)**

Source: E5L0210-03

Prepared: 12/10/2025 Analyzed: 12/11/2025

(DTPA Sorbitol) Boron	0.741	0.125	mg/L dry		0.657			12.0	50	
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**Batch 5L10029 - Saturated Paste Metals**

**Blank (5L10029-BLK1)**

Prepared: 12/10/2025 Analyzed: 12/11/2025

Calcium PPM	ND	10.0	mg/L							U
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SAR	ND	0.0100	SAR							U
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Magnesium PPM	ND	10.0	mg/L							U
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Sodium PPM	ND	10.0	"							U
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**Duplicate (5L10029-DUP1)**

Source: E5L0210-03

Prepared: 12/10/2025 Analyzed: 12/11/2025

SAR	ND	0.0100	SAR		1.83				200	U
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Calcium PPM	58.0	10.0	mg/L		55.5			4.28	50	
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Magnesium PPM	8.50	10.0	"		8.50			0.00	50	U
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Sodium PPM	52.7	10.0	"		55.4			5.05	50	
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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 5L09061 - EPA 3580**

**Blank (5L09061-BLK1)**

Prepared: 12/09/2025 Analyzed: 12/09/2025

1-Methylnaphthalene	ND	0.002	mg/kg wet							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		99.2	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	190		"	200		95.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

**LCS (5L09061-BS1)**

Prepared: 12/09/2025 Analyzed: 12/09/2025

1-Methylnaphthalene	0.224	0.002	mg/kg wet	0.203		110	70-130			
2-Methylnaphthalene	0.225	0.002	"	0.203		111	70-130			
Acenaphthene	0.221	0.020	"	0.203		109	70-130			
Anthracene	0.203	0.020	"	0.203		99.6	70-130			
Benzo (a) anthracene	0.204	0.005	"	0.203		100	70-130			
Benzo (a) pyrene	0.216	0.020	"	0.203		106	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 5L09061 - EPA 3580**

**LCS (5L09061-BS1)**

Prepared: 12/09/2025 Analyzed: 12/09/2025

Benzo (b) fluoranthene	0.232	0.020	mg/kg wet	0.203		114	70-130			
Benzo (g,h,i) perylene	0.225	0.020	"	0.203		111	70-130			
Benzo (k) fluoranthene	0.242	0.020	"	0.203		119	70-130			
Chrysene	0.207	0.020	"	0.203		102	70-130			
Dibenz (a,h) anthracene	0.228	0.020	"	0.203		112	70-130			
Fluoranthene	0.209	0.020	"	0.203		103	70-130			
Fluorene	0.221	0.020	"	0.203		109	70-130			
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.203		109	70-130			
Naphthalene	0.228	0.002	"	0.203		112	70-130			
Phenanthrene	0.211	0.020	"	0.203		103	70-130			
Pyrene	0.199	0.020	"	0.203		97.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	190		"	200		93.7	60-130			
Surrogate: Pyrene-d10	190		"	200		94.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**Matrix Spike (5L09061-MS1)**

Source: E5L0207-01

Prepared: 12/09/2025 Analyzed: 12/09/2025

1-Methylnaphthalene	0.238	0.002	mg/kg dry	0.222	ND	107	70-130			
2-Methylnaphthalene	0.239	0.002	"	0.222	ND	107	70-130			
Acenaphthene	0.235	0.022	"	0.222	0.0004	105	70-130			
Anthracene	0.216	0.022	"	0.222	0.0006	96.9	70-130			
Benzo (a) anthracene	0.229	0.006	"	0.222	ND	103	70-130			
Benzo (a) pyrene	0.230	0.022	"	0.222	0.002	103	70-130			
Benzo (b) fluoranthene	0.239	0.022	"	0.222	0.001	107	70-130			
Benzo (g,h,i) perylene	0.239	0.022	"	0.222	0.001	107	70-130			
Benzo (k) fluoranthene	0.255	0.022	"	0.222	0.001	114	70-130			
Chrysene	0.218	0.022	"	0.222	0.001	97.4	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 5L09061 - EPA 3580

**Matrix Spike (5L09061-MS1)**

Source: E5L0207-01

Prepared: 12/09/2025 Analyzed: 12/09/2025

Dibenz (a,h) anthracene	0.244	0.022	mg/kg dry	0.222	0.002	109	70-130			
Fluoranthene	0.224	0.022	"	0.222	0.0009	100	70-130			
Fluorene	0.232	0.022	"	0.222	ND	104	70-130			
Indeno (1,2,3-cd) pyrene	0.247	0.022	"	0.222	0.001	110	70-130			
Naphthalene	0.236	0.002	"	0.222	ND	106	70-130			
Phenanthrene	0.221	0.022	"	0.222	ND	99.3	70-130			
Pyrene	0.207	0.022	"	0.222	ND	93.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	190		"	200		95.3	60-130			
Surrogate: Pyrene-d10	190		"	200		93.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

**Matrix Spike Dup (5L09061-MSD1)**

Source: E5L0207-01

Prepared: 12/09/2025 Analyzed: 12/09/2025

1-Methylnaphthalene	0.234	0.002	mg/kg dry	0.221	ND	106	70-130	1.76	20	
2-Methylnaphthalene	0.234	0.002	"	0.221	ND	106	70-130	1.76	20	
Acenaphthene	0.229	0.022	"	0.221	0.0004	103	70-130	2.62	20	
Anthracene	0.209	0.022	"	0.221	0.0006	94.5	70-130	3.27	20	
Benzo (a) anthracene	0.219	0.006	"	0.221	ND	99.5	70-130	4.46	20	
Benzo (a) pyrene	0.223	0.022	"	0.221	0.002	100	70-130	3.15	20	
Benzo (b) fluoranthene	0.229	0.022	"	0.221	0.001	103	70-130	4.25	20	
Benzo (g,h,i) perylene	0.232	0.022	"	0.221	0.001	104	70-130	3.16	20	
Benzo (k) fluoranthene	0.242	0.022	"	0.221	0.001	109	70-130	5.28	20	
Chrysene	0.213	0.022	"	0.221	0.001	96.0	70-130	2.25	20	
Dibenz (a,h) anthracene	0.231	0.022	"	0.221	0.002	104	70-130	5.75	20	
Fluoranthene	0.214	0.022	"	0.221	0.0009	96.8	70-130	4.13	20	
Fluorene	0.229	0.022	"	0.221	ND	104	70-130	1.31	20	
Indeno (1,2,3-cd) pyrene	0.233	0.022	"	0.221	0.001	105	70-130	5.96	20	

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 12-5,Chaknova 14-5 WH

**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 5L09061 - EPA 3580

Matrix Spike Dup (5L09061-MSD1)

Source: E5L0207-01

Prepared: 12/09/2025 Analyzed: 12/09/2025

Naphthalene	0.233	0.002	mg/kg dry	0.221	ND	106	70-130	1.25	20	
Phenanthrene	0.213	0.022	"	0.221	ND	96.6	70-130	3.59	20	
Pyrene	0.207	0.022	"	0.221	ND	93.6	70-130	0.321	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		94.6	60-130			
Surrogate: Pyrene-d10	190		"	200		94.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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Kayla Kenyon For Jen Pellegrini, Project Manager



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Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**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 5L10043 - EPA 3550B**

**Blank (5L10043-BLK1)**

Prepared: 12/10/2025 Analyzed: 12/10/2025

Diesel (C10-C28)	ND	24.5	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	98.1	"							U

Surrogate: o-Terphenyl

14	"	24.4	58.9	50-150
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**LCS (5L10043-BS1)**

Prepared: 12/10/2025 Analyzed: 12/10/2025

Diesel (C10-C28)	790	50.7	mg/kg wet	1010	77.9	70-130
Residual Range Organics (C28-C36)	866	203	"	1010	85.4	70-130

Surrogate: o-Terphenyl

42	"	50.5	83.1	50-150
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**Matrix Spike (5L10043-MS1)**

**Source: E5L0213-01**

Prepared: 12/10/2025 Analyzed: 12/10/2025

Diesel (C10-C28)	904	58.4	mg/kg dry	1170	ND	77.4	70-130
Residual Range Organics (C28-C36)	1000	233	"	1170	ND	85.8	70-130

Surrogate: o-Terphenyl

39	"	58.1	68.0	50-150
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**Matrix Spike Dup (5L10043-MSD1)**

**Source: E5L0213-01**

Prepared: 12/10/2025 Analyzed: 12/10/2025

Diesel (C10-C28)	865	58.7	mg/kg dry	1170	ND	73.6	70-130	4.41	35
Residual Range Organics (C28-C36)	950	235	"	1170	ND	80.9	70-130	5.29	35

Surrogate: o-Terphenyl

39	"	58.4	66.1	50-150
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Origins Laboratory

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Kayla Kenyon For Jen Pellegrini, Project Manager



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

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**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 5L09064 - EPA 3050B**

**Blank (5L09064-BLK1)**

Prepared: 12/09/2025 Analyzed: 12/10/2025

Arsenic	ND	0.218	mg/kg wet							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U
Zinc	ND	278	"							U

**LCS (5L09064-BS1)**

Prepared: 12/09/2025 Analyzed: 12/10/2025

Arsenic	5.42	0.218	mg/kg wet	5.00		108	80-120			
Barium	534	61.5	"	500		107	80-120			
Cadmium	5.67	0.285	"	5.00		113	80-120			
Copper	56.9	34.5	"	50.0		114	80-120			
Lead	5.48	10.5	"	5.00		110	80-120			U
Nickel	5.52	19.5	"	5.00		110	80-120			U
Selenium	5.38	0.184	"	5.00		108	80-120			
Silver	5.78	0.600	"	5.00		116	80-120			
Zinc	52.6	278	"	50.0		105	80-120			U

**Matrix Spike (5L09064-MS1)**

**Source: E5L0207-02**

Prepared: 12/09/2025 Analyzed: 12/10/2025

Arsenic	7.53	0.217	mg/kg dry	4.97	3.01	90.7	75-125			
Barium	538	61.2	"	497	87.8	90.6	75-125			
Cadmium	4.89	0.284	"	4.97	0.157	95.1	75-125			
Copper	54.9	34.3	"	49.7	8.11	94.1	75-125			
Lead	13.2	10.4	"	4.97	11.8	28.8	75-125			QM-07

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 12-5,Chaknova 14-5 WH

**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 5L09064 - EPA 3050B**

**Matrix Spike (5L09064-MS1)**

Source: E5L0207-02

Prepared: 12/09/2025 Analyzed: 12/10/2025

Nickel	11.1	19.4	mg/kg dry	4.97	7.63	70.7	75-125			QM-07, U
Selenium	5.10	0.184	"	4.97	0.133	99.9	75-125			
Silver	4.90	0.597	"	4.97	0.0214	98.1	75-125			
Zinc	75.2	276	"	49.7	33.2	84.4	75-125			U

**Matrix Spike Dup (5L09064-MSD1)**

Source: E5L0207-02

Prepared: 12/09/2025 Analyzed: 12/10/2025

Arsenic	6.86	0.211	mg/kg dry	4.84	3.01	79.4	75-125	9.29	20	
Barium	522	59.6	"	484	87.8	89.6	75-125	3.13	20	
Cadmium	4.87	0.276	"	4.84	0.157	97.3	75-125	0.459	20	
Copper	54.5	33.4	"	48.4	8.11	95.7	75-125	0.881	20	
Lead	12.4	10.2	"	4.84	11.8	13.2	75-125	6.20	20	QM-07
Nickel	10.5	18.9	"	4.84	7.63	59.7	75-125	5.79	20	QM-07, U
Selenium	4.83	0.179	"	4.84	0.133	97.0	75-125	5.50	20	
Silver	4.85	0.581	"	4.84	0.0214	99.7	75-125	1.10	20	
Zinc	72.6	269	"	48.4	33.2	81.4	75-125	3.44	20	U

**Batch 5L09065 - EPA 3050B**

**Blank (5L09065-BLK1)**

Prepared: 12/09/2025 Analyzed: 12/11/2025

Arsenic	ND	0.218	mg/kg wet							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U

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 12-5,Chaknova 14-5 WH

**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 5L09065 - EPA 3050B**

**Blank (5L09065-BLK1)**

Prepared: 12/09/2025 Analyzed: 12/11/2025

Silver	ND	0.600	mg/kg wet							U
Zinc	ND	278	"							U

**LCS (5L09065-BS1)**

Prepared: 12/09/2025 Analyzed: 12/11/2025

Arsenic	5.14	0.218	mg/kg wet	5.00		103	80-120			
Barium	489	61.5	"	500		97.9	80-120			
Cadmium	5.14	0.285	"	5.00		103	80-120			
Copper	52.9	34.5	"	50.0		106	80-120			
Lead	4.99	10.5	"	5.00		99.8	80-120			U
Nickel	5.16	19.5	"	5.00		103	80-120			U
Selenium	5.35	0.184	"	5.00		107	80-120			
Silver	5.13	0.600	"	5.00		103	80-120			
Zinc	50.3	278	"	50.0		101	80-120			U

**Matrix Spike (5L09065-MS1)**

**Source: E5L0215-01**

Prepared: 12/09/2025 Analyzed: 12/11/2025

Arsenic	7.54	0.219	mg/kg dry	5.03	2.55	99.2	75-125			
Barium	523	61.9	"	503	56.6	92.8	75-125			
Cadmium	4.94	0.287	"	5.03	0.136	95.5	75-125			
Copper	56.4	34.7	"	50.3	7.21	97.9	75-125			
Lead	11.0	10.6	"	5.03	6.05	98.2	75-125			
Nickel	12.5	19.6	"	5.03	6.85	112	75-125			U
Selenium	4.65	0.186	"	5.03	0.158	89.3	75-125			
Silver	4.81	0.603	"	5.03	0.0312	95.0	75-125			
Zinc	76.4	279	"	50.3	26.0	100	75-125			U

**Matrix Spike Dup (5L09065-MSD1)**

**Source: E5L0215-01**

Prepared: 12/09/2025 Analyzed: 12/11/2025

Arsenic	6.89	0.221	mg/kg dry	5.07	2.55	85.5	75-125	8.99	20	
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 12-5,Chaknova 14-5 WH

**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 5L09065 - EPA 3050B

Matrix Spike Dup (5L09065-MSD1)

Source: E5L0215-01

Prepared: 12/09/2025 Analyzed: 12/11/2025

Barium	494	62.4	mg/kg dry	507	56.6	86.2	75-125	5.72	20	
Cadmium	4.74	0.289	"	5.07	0.136	90.7	75-125	4.10	20	
Copper	54.5	35.0	"	50.7	7.21	93.3	75-125	3.46	20	
Lead	10.7	10.7	"	5.07	6.05	91.8	75-125	2.57	20	
Nickel	11.6	19.8	"	5.07	6.85	94.3	75-125	6.88	20	U
Selenium	4.76	0.187	"	5.07	0.158	90.8	75-125	2.40	20	
Silver	4.64	0.609	"	5.07	0.0312	90.9	75-125	3.53	20	
Zinc	71.2	282	"	50.7	26.0	89.0	75-125	7.03	20	U

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Kayla Kenyon For Jen Pellegrini, Project Manager



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 12-5,Chaknova 14-5 WH

**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 5L10034 - Saturated Paste pH/EC**

**Blank (5L10034-BLK1)**

Prepared: 12/10/2025 Analyzed: 12/11/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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**Duplicate (5L10034-DUP1)**

**Source: E5L0210-03**

Prepared: 12/10/2025 Analyzed: 12/11/2025

pH	8.04		pH Units		8.06			0.248	25	
Specific Conductance (EC)	0.649	0.00500	mmhos/cm		0.610			6.17	25	

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 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**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 5L10019 - EPA 5030 (soil)**

**Blank (5L10019-BLK1)**

Prepared: 12/10/2025 Analyzed: 12/10/2025

1,2,4-Trimethylbenzene	ND	0.002	mg/kg wet							U
1,3,5-Trimethylbenzene	ND	0.002	"							U
Benzene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

**LCS (5L10019-BS1)**

Prepared: 12/10/2025 Analyzed: 12/10/2025

1,2,4-Trimethylbenzene	0.090	0.002	mg/kg wet	0.100		90.1	70-130			
1,3,5-Trimethylbenzene	0.090	0.002	"	0.100		89.8	70-130			
Benzene	0.093	0.002	"	0.100		93.2	70-130			
Ethylbenzene	0.102	0.002	"	0.100		102	70-130			
Naphthalene	0.085	0.004	"	0.100		85.3	70-130			
Toluene	0.095	0.002	"	0.100		95.5	70-130			
o-Xylene	0.097	0.002	"	0.100		96.9	70-130			
m,p-Xylene	0.200	0.004	"	0.200		99.9	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

**Matrix Spike (5L10019-MS1)**

Source: E5L0212-01

Prepared: 12/10/2025 Analyzed: 12/10/2025

1,2,4-Trimethylbenzene	0.192	0.002	mg/kg dry	0.222	ND	86.6	70-130			
1,3,5-Trimethylbenzene	0.192	0.002	"	0.222	ND	86.4	70-130			

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 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**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 5L10019 - EPA 5030 (soil)

Matrix Spike (5L10019-MS1)		Source: E5L0212-01			Prepared: 12/10/2025 Analyzed: 12/10/2025					
Benzene	0.207	0.002	mg/kg dry	0.222	ND	93.2	70-130			
Ethylbenzene	0.214	0.002	"	0.222	ND	96.4	70-130			
Naphthalene	0.176	0.004	"	0.222	ND	79.4	70-130			
Toluene	0.202	0.002	"	0.222	ND	90.9	70-130			
o-Xylene	0.214	0.002	"	0.222	ND	96.2	70-130			
m,p-Xylene	0.431	0.004	"	0.444	ND	96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.139		91.1	70-130			
Surrogate: Toluene-d8	0.14		"	0.139		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.139		100	70-130			

Matrix Spike Dup (5L10019-MSD1)		Source: E5L0212-01			Prepared: 12/10/2025 Analyzed: 12/10/2025					
1,2,4-Trimethylbenzene	0.194	0.002	mg/kg dry	0.225	ND	86.3	70-130	0.854	20	
1,3,5-Trimethylbenzene	0.192	0.002	"	0.225	ND	85.6	70-130	0.258	20	
Benzene	0.208	0.002	"	0.225	ND	92.6	70-130	0.598	20	
Ethylbenzene	0.208	0.002	"	0.225	ND	92.6	70-130	2.88	20	
Naphthalene	0.201	0.004	"	0.225	ND	89.3	70-130	12.9	20	
Toluene	0.203	0.002	"	0.225	ND	90.4	70-130	0.683	20	
o-Xylene	0.209	0.002	"	0.225	ND	93.0	70-130	2.19	20	
m,p-Xylene	0.421	0.004	"	0.450	ND	93.6	70-130	2.25	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.141		91.4	70-130			
Surrogate: Toluene-d8	0.14		"	0.141		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.141		97.0	70-130			

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 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**Total Metals by 7199 - Quality Control  
 Enthalpy Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch BIL0748 - No Prep IC-WET</b>										
<b>Blank (BIL0748-BLK1)</b>										
					Prepared: 12/12/2025 Analyzed: 12/17/2025					
Chromium, Hexavalent	ND	0.005	mg/kg wet dry							
<b>LCS (BIL0748-BS1)</b>										
					Prepared: 12/12/2025 Analyzed: 12/17/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg wet dry	0.0500		101	80-120			
<b>LCS (BIL0748-BS2)</b>										
					Prepared: 12/12/2025 Analyzed: 12/17/2025					
Chromium, Hexavalent	8.07	1.00	mg/kg wet dry	9.33		86.5	80-120			
<b>Duplicate (BIL0748-DUP1)</b>										
		<b>Source: E5L0213-07</b>			Prepared: 12/12/2025 Analyzed: 12/17/2025					
Chromium, Hexavalent	ND	0.23	mg/kg dry		ND					20
<b>Matrix Spike (BIL0748-MS1)</b>										
		<b>Source: E5L0213-07</b>			Prepared: 12/12/2025 Analyzed: 12/17/2025					
Chromium, Hexavalent	2.62	0.24	mg/kg dry	2.43	ND	108	75-125			
<b>Matrix Spike (BIL0748-MS2)</b>										
		<b>Source: E5L0213-07</b>			Prepared: 12/12/2025 Analyzed: 12/17/2025					
Chromium, Hexavalent	2.53	0.23	mg/kg dry	2.27	ND	112	75-125			
<b>Batch BIL0749 - No Prep IC-WET</b>										
<b>Blank (BIL0749-BLK1)</b>										
					Prepared: 12/12/2025 Analyzed: 12/16/2025					
Chromium, Hexavalent	ND	0.005	mg/kg wet dry							
<b>LCS (BIL0749-BS1)</b>										
					Prepared: 12/12/2025 Analyzed: 12/16/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg wet dry	0.0500		98.7	80-120			
<b>LCS (BIL0749-BS2)</b>										
					Prepared: 12/12/2025 Analyzed: 12/16/2025					

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Kayla Kenyon For Jen Pellegrini, Project Manager



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 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**Total Metals by 7199 - Quality Control  
 Enthalpy Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch BIL0749 - No Prep IC-WET</b>										
<b>LCS (BIL0749-BS2)</b>					Prepared: 12/12/2025 Analyzed: 12/16/2025					
Chromium, Hexavalent	8.90	1.00	mg/kg wet dry	8.07		110	80-120			
<b>Duplicate (BIL0749-DUP1)</b>					Source: 25L1132-01 Prepared: 12/12/2025 Analyzed: 12/17/2025					
Chromium, Hexavalent	ND	0.20	mg/kg wet dry		ND	-			20	
<b>Matrix Spike (BIL0749-MS1)</b>					Source: 25L1132-01 Prepared: 12/12/2025 Analyzed: 12/17/2025					
Chromium, Hexavalent	2.11	0.20	mg/kg wet dry	2.01	ND	105	75-125			
<b>Matrix Spike (BIL0749-MS2)</b>					Source: 25L1132-01 Prepared: 12/12/2025 Analyzed: 12/17/2025					
Chromium, Hexavalent	55.7		ppb dry	50.0	1.70	108	75-125			
<b>Batch BIL0803 - No Prep IC-WET</b>										
<b>Blank (BIL0803-BLK1)</b>					Prepared: 12/15/2025 Analyzed: 12/16/2025					
Chromium, Hexavalent	ND	0.005	mg/kg wet dry			-				
<b>LCS (BIL0803-BS1)</b>					Prepared: 12/15/2025 Analyzed: 12/16/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg wet dry	0.0500		100	80-120			
<b>LCS (BIL0803-BS2)</b>					Prepared: 12/15/2025 Analyzed: 12/16/2025					
Chromium, Hexavalent	7.45	1.00	mg/kg wet dry	9.00		82.8	80-120			
<b>Duplicate (BIL0803-DUP1)</b>					Source: 25L1137-08 Prepared: 12/15/2025 Analyzed: 12/16/2025					
Chromium, Hexavalent	ND	0.20	mg/kg wet dry		ND	-			20	

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

Jeremy Espinoza  
 Project Number: 09A14171004  
 Project: KMG - HSR- Cleason 11-5,Bell  
 12-5,Chaknova 14-5 WH

**Total Metals by 7199 - Quality Control**  
**Enthalpy Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch BIL0803 - No Prep IC-WET**

**Matrix Spike (BIL0803-MS1)**

**Source: 25L1137-08**

Prepared: 12/15/2025 Analyzed: 12/16/2025

Chromium, Hexavalent	1.98	0.19	mg/kg wet dry	1.93	ND	102	75-125			
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**Matrix Spike (BIL0803-MS2)**

**Source: 25L1137-08**

Prepared: 12/15/2025 Analyzed: 12/16/2025

Chromium, Hexavalent	2.13	0.20	mg/kg wet dry	1.98	ND	108	75-125			
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Kayla Kenyon For Jen Pellegrini, Project Manager



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### Notes and Definitions

- U Sample is Non-Detect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- Ja The reported result is an estimated value.
- J Sample result was found between MDL and RL
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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