

ORIGINS LABORATORY

Ensolum

December 08, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Lot Holding 1-3 & Loveland
8-3 WHs**

Project Number - 09A14171459

Attached are your analytical results for KMG - Lot Holding 1-3 & Loveland 8-3 WHs received by Origins Laboratory November 19, 2025. This project is associated with Origins project number E5K0501-01.

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



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

Jeremy Espinoza
Project Number: 09A14171459
Project: KMG - Lot Holding 1-3 & Loveland 8-3
WHs

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01(8-3)@4'	E5K0501-01	Soil	November 19, 2025 12:37	11/19/2025 15:16
WH-Riser(8-3)@3'	E5K0501-02	Soil	November 19, 2025 11:20	11/19/2025 15:16
B01(1-3)@4'	E5K0501-03	Soil	November 19, 2025 12:40	11/19/2025 15:16
WH-Riser(1-3)@3'	E5K0501-04	Soil	November 19, 2025 12:43	11/19/2025 15:16
Native-BG01@3'	E5K0501-05	Soil	November 19, 2025 11:50	11/19/2025 15:16
Native-BG01@6'	E5K0501-06	Soil	November 19, 2025 11:55	11/19/2025 15:16
Native-BG02@3'	E5K0501-07	Soil	November 19, 2025 11:58	11/19/2025 15:16
Native-BG02@6'	E5K0501-08	Soil	November 19, 2025 12:01	11/19/2025 15:16
Native-BG03@3'	E5K0501-09	Soil	November 19, 2025 12:06	11/19/2025 15:16
Native-BG03@6'	E5K0501-10	Soil	November 19, 2025 12:08	11/19/2025 15:16
Native-BG04@3'	E5K0501-11	Soil	November 19, 2025 12:13	11/19/2025 15:16
Native-BG04@6'	E5K0501-12	Soil	November 19, 2025 12:16	11/19/2025 15:16
Native-BG05@3'	E5K0501-13	Soil	November 19, 2025 12:20	11/19/2025 15:16
Native-BG05@6'	E5K0501-14	Soil	November 19, 2025 12:23	11/19/2025 15:16

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Project Number: 09A14171459
Project: KMG - Lot Holding 1-3 & Loveland 8-3
WHs

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Native-BG06@3'	E5K0501-15	Soil	November 19, 2025 12:28	11/19/2025 15:16
Native-BG06@6'	E5K0501-16	Soil	November 19, 2025 12:31	11/19/2025 15:16

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ORIGINS WORK ORDER #

ESKOSOI

Page 1 of 2

Client: Ensaluma
Address: _____

Project Manager: Jenny Espinoza
Project Name: Lot Holding 1-3 Q Lowland & 3 Well

Key: _____

Telephone Number: _____

Project Number: 09AHT11459
Collected By: Brianne Mitchell

SW=Surface Water
GW=Groundwater
W=Water

Email Address: _____

Invoice/Billing Info: Inv # 161
REI# 42347

WW=Waste Water
L=Liquid

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	
							Full list	pH	EC SAR	Boron		
1	B01(8-3)E4'	11/19/25	1237	3	S	UNP	X					If necessary please provide partial printing for in house samples
2	WH-R-8E(8-3)E3'		1120									
3	B01(1-3)E4'		1240									
4	WH-R-8E(1-3)E3'		1243									
5	Mature-BG01E3'		1150				X					
6	Mature-BG01E6'		1155				X					
7	Mature-BG02E3'		1158				X					
8	Mature-BG02E6'		1201				X					
9	Mature-BG03E3'		1206				X					
10	Mature-BG03E6'		1208				X					
Relinquished By: _____		Date: 11/19/25	Time: 1515	Received By: gmc	Date: 11/19/25	Time: 1516						
Relinquished By: _____		Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____						

For Lab Sample Receiving Only: Standard 48 Hr 72 DAY

Temp Received- 2.2 Received On Ice? Yes No

Turnaround Time SAME DAY 24 Hr

Client: Ensolium
Address: _____

Telephone Number: _____

Email Address: CMG TEWA

Project Manager: Jenny Espinoza

Project Name: Lot Holdings 1-3 R Lowland & 3 UHS

Project Number: 09A1417159

Collected By: Brian Mitchell

Invoice/Billing Info: Zafra

Key:

W=Water

GW=Groundwater

SW=Surface Water

MW=Waste Water

L=Liquid

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 Metals	
1	UW-1-BG0403'	11/19/25	1213	3	S	UNP	X	X	X	X		If necessary please provide partial splitting for in water samples
2	UW-1-BG0406'		1216				X	X	X	X		
3	UW-1-BG0503'		1220				X	X	X	X		
4	UW-1-BG0506'		1223				X	X	X	X		
5	UW-1-BG0603'		1228				X	X	X	X		
6	UW-1-BG0606'		1231				X	X	X	X		
7												
8												
9												
10												

Relinquished By: _____	Date: <u>11/19/25</u>	Time: <u>1515</u>	Received By: <u>gmc</u>	Date: <u>11/19/25</u>	Time: <u>1516</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

For Lab Sample Receiving Only:
Temp Received - 2.2 Received On Ice?

Turnaround Time
 SAME DAY
 48 Hr 72 Hr
 Standard
 Yes No

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ES140501

Client: Ensolium

Client Project ID: Lot Holding

Checklist Completed by: NB/NB

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

Date/time completed: 11/20/25

Airbill #: N/A

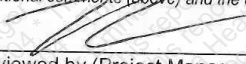
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 2.2 °C / _____ °C / _____ °C (Describe) / _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?		X		sample 3 jars labeled "B01(1-3)C"
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked ⁽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)			X	
Additional Comments (if any):				

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


Reviewed by (Project Manager)

11/21/25
Date/Time Reviewed



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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHs

B01(8-3)@4'

11/19/2025 12:37:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-01 (Soil)
 Enthalpy Orange**

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.19	0.38	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	1.36		0.129	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		32.3	mg/kg dry	1	5K21021	11/21/2025	11/21/2025	U
Residual Range Organics (C28-C36)	ND		129	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.7 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.0007	0.003	mg/kg dry	1	5K21020	11/21/2025	11/21/2025	U
1,3,5-Trimethylbenzene	ND	0.0007	0.003	"	"	"	"	"	U
Benzene	ND	0.0006	0.003	"	"	"	"	"	U
Ethylbenzene	ND	0.0006	0.003	"	"	"	"	"	U
Toluene	ND	0.0008	0.003	"	"	"	"	"	U
Xylenes, total	ND	0.0003	0.003	"	"	"	"	"	U

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 WHS

B01(8-3)@4'

11/19/2025 12:37:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-01 (Soil)
 Origins Laboratory**

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	0.115	0.050	0.257	mg/kg dry	1	5K21020	11/21/2025	11/21/2025	J
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Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	99.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	12.5		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	8.71		0.823	"	"	"	"	"	
Sodium	6.45		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.003	mg/kg dry	1	5K21111	11/21/2025	11/24/2025	U
2-Methylnaphthalene	ND		0.003	"	"	"	"	"	U
Acenaphthene	ND		0.025	"	"	"	"	"	U
Anthracene	ND		0.025	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.025	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.025	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.025	"	"	"	"	"	U
Chrysene	ND		0.025	"	"	"	"	"	U

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B01(8-3)@4'

11/19/2025 12:37:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-01 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Dibenz (a,h) anthracene	ND		0.025	mg/kg dry	1	5K21111	11/21/2025	11/24/2025	U
Fluoranthene	ND		0.025	"	"	"	"	"	U
Fluorene	ND		0.025	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.025	"	"	"	"	"	U
Naphthalene	ND		0.003	"	"	"	"	"	U
Pyrene	ND		0.025	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.3 %			60-130		"	"	"	
Surrogate: Pyrene-d10	108 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.0 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	77.7			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.00			pH Units	1	5K20081	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	1.98		0.0100	SAR	1	5K20076	11/20/2025	11/24/2025	
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 WHS

B01(8-3)@4'

11/19/2025 12:37:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-01 (Soil)
 Origins Laboratory**

Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.28		0.00500	mmhos/cm	1	5K20081	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.01		0.253	mg/kg dry	10	5K20063	11/20/2025	11/21/2025	
Barium	449		71.5	"	"	"	"	"	
Cadmium	0.336		0.331	"	"	"	"	"	
Copper	ND		40.1	"	"	"	"	"	U
Lead	18.2		12.2	"	"	"	"	"	
Nickel	ND		22.7	"	"	"	"	"	U
Selenium	0.617		0.215	"	"	"	"	"	
Silver	ND		0.698	"	"	"	"	"	U
Zinc	ND		323	"	"	"	"	"	U

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 WHs

WH-Riser(8-3)@3'
11/19/2025 11:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-02 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.18	0.36	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	1.53		0.124	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		31.0	mg/kg dry	1	5K21021	11/21/2025	11/21/2025	U
Residual Range Organics (C28-C36)	ND		124	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.9 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.0006	0.002	mg/kg dry	1	5K21020	11/21/2025	11/21/2025	U
1,3,5-Trimethylbenzene	ND	0.0007	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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 WHs

WH-Riser(8-3)@3'
11/19/2025 11:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	0.099	0.048	0.247	mg/kg dry	1	5K21020	11/21/2025	11/21/2025	J
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	22.0		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	10.2		0.823	"	"	"	"	"	
Sodium	4.37		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.003	mg/kg dry	1	5K21111	11/21/2025	11/24/2025	U
2-Methylnaphthalene	ND		0.003	"	"	"	"	"	U
Acenaphthene	ND		0.025	"	"	"	"	"	U
Anthracene	ND		0.025	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.025	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.025	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.025	"	"	"	"	"	U
Chrysene	ND		0.025	"	"	"	"	"	U

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 WHs

WH-Riser(8-3)@3'
11/19/2025 11:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5K0501-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Dibenz (a,h) anthracene	ND		0.025	mg/kg dry	1	5K21111	11/21/2025	11/24/2025	U
Fluoranthene	ND		0.025	"	"	"	"	"	U
Fluorene	ND		0.025	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.025	"	"	"	"	"	U
Naphthalene	ND		0.003	"	"	"	"	"	U
Pyrene	ND		0.025	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.3 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	107 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.1 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	80.5			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	7.98			pH Units	1	5K20081	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	1.09		0.0100	SAR	1	5K20076	11/20/2025	11/24/2025	
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Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHs

WH-Riser(8-3)@3'
11/19/2025 11:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-02 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.66		0.00500	mmhos/cm	1	5K20081	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.29		0.233	mg/kg dry	10	5K20063	11/20/2025	11/21/2025	
Barium	304		65.6	"	"	"	"	"	
Cadmium	ND		0.304	"	"	"	"	"	U
Copper	ND		36.8	"	"	"	"	"	U
Lead	15.2		11.2	"	"	"	"	"	
Nickel	ND		20.8	"	"	"	"	"	U
Selenium	0.864		0.197	"	"	"	"	"	
Silver	ND		0.640	"	"	"	"	"	U
Zinc	ND		296	"	"	"	"	"	U

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHs

B01(1-3)@4'

11/19/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-03 (Soil)
 Enthalpy Orange**

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.18	0.35	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	0.370		0.120	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		30.0	mg/kg dry	1	5K21021	11/21/2025	11/21/2025	U
Residual Range Organics (C28-C36)	ND		120	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.1 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.0006	0.002	mg/kg dry	1	5K21020	11/21/2025	11/21/2025	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

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHs

B01(1-3)@4'

11/19/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-03 (Soil)
 Origins Laboratory**

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	0.103	0.046	0.236	mg/kg dry	1	5K21020	11/21/2025	11/21/2025	J
Surrogate: 1,2-Dichloroethane-d4	102 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.12		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	2.01		0.823	"	"	"	"	"	
Sodium	1.64		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.007		0.002	mg/kg dry	1	5K21111	11/21/2025	11/24/2025	
2-Methylnaphthalene	0.008		0.002	"	"	"	"	"	
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.024	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U
Chrysene	ND		0.024	"	"	"	"	"	U

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

B01(1-3)@4'

11/19/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-03 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Dibenz (a,h) anthracene	ND		0.024	mg/kg dry	1	5K21111	11/21/2025	11/24/2025	U
Fluoranthene	ND		0.024	"	"	"	"	"	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U

Surrogate: Fluorene-d10	93.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	108 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.2 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	83.5			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.07			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	0.939		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

B01(1-3)@4'

11/19/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5K0501-03 (Soil)									
Origins Laboratory									
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.866		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
Table 915 metals by EPA 6020B									
Arsenic	1.67		0.232	mg/kg dry	10	5K20063	11/20/2025	11/21/2025	
Barium	ND		65.5	"	"	"	"	"	U
Cadmium	ND		0.303	"	"	"	"	"	U
Copper	ND		36.7	"	"	"	"	"	U
Lead	ND		11.2	"	"	"	"	"	U
Nickel	ND		20.8	"	"	"	"	"	U
Selenium	0.605		0.196	"	"	"	"	"	
Silver	ND		0.639	"	"	"	"	"	U
Zinc	ND		295	"	"	"	"	"	U

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHs

WH-Riser(1-3)@3'
11/19/2025 12:43:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-04 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.18	0.35	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	1.46		0.122	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		30.0	mg/kg dry	1	5K21021	11/21/2025	11/21/2025	U
Residual Range Organics (C28-C36)	ND		120	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.8 %				50-150	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.0006	0.002	mg/kg dry	1	5K21020	11/21/2025	11/21/2025	U
1,3,5-Trimethylbenzene	ND	0.0007	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

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHs

WH-Riser(1-3)@3'
11/19/2025 12:43:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-04 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	0.098	0.047	0.243	mg/kg dry	1	5K21020	11/21/2025	11/21/2025	J
Surrogate: 1,2-Dichloroethane-d4	105 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	20.4		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	7.83		0.823	"	"	"	"	"	
Sodium	3.37		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	5K21111	11/21/2025	11/24/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.024	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U
Chrysene	ND		0.024	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHs

WH-Riser(1-3)@3'
11/19/2025 12:43:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5K0501-04 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.024	mg/kg dry	1	5K21111	11/21/2025	11/24/2025	U
Fluoranthene	ND		0.024	"	"	"	"	"	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U
Surrogate: Fluorene-d10	94.5 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.1 %			60-130		"	"	"	
Surrogate: Pyrene-d10	110 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.4 %			60-130		"	"	"	
Percent Solids									
Total Solids, Percent	82.6			mass percent	1	5K20112	11/20/2025	11/20/2025	
pH in Soil by 9045D									
pH	8.00			pH Units	1	5K20082	11/20/2025	11/22/2025	
SAR by 20B Saturated Paste									
SAR	0.896		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHs

WH-Riser(1-3)@3'
11/19/2025 12:43:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-04 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.36		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.36		0.244	mg/kg dry	10	5K20063	11/20/2025	11/21/2025	
Barium	223		68.8	"	"	"	"	"	
Cadmium	ND		0.319	"	"	"	"	"	U
Copper	ND		38.6	"	"	"	"	"	U
Lead	13.8		11.7	"	"	"	"	"	
Nickel	ND		21.8	"	"	"	"	"	U
Selenium	0.465		0.206	"	"	"	"	"	
Silver	ND		0.671	"	"	"	"	"	U
Zinc	ND		310	"	"	"	"	"	U

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG01@3'

11/19/2025 11:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-05 (Soil)
 Enthalpy Orange**

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.20	0.40	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	2.00		0.135	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	29.6		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	13.5		0.823	"	"	"	"	"	"
Sodium	3.84		0.435	"	"	"	"	"	"

Percent Solids

Total Solids, Percent	73.6			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	7.75			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	0.827		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG01@3'

11/19/2025 11:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-05 (Soil)
 Origins Laboratory**

Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.44		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	5.91		0.260	mg/kg dry	10	5K20063	11/20/2025	11/21/2025	
Barium	214		73.3	"	"	"	"	"	
Cadmium	0.456		0.340	"	"	"	"	"	
Copper	ND		41.1	"	"	"	"	"	U
Lead	16.9		12.5	"	"	"	"	"	
Nickel	24.0		23.3	"	"	"	"	"	
Selenium	1.71		0.220	"	"	"	"	"	
Silver	ND		0.716	"	"	"	"	"	U
Zinc	ND		331	"	"	"	"	"	U

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG01@6'
11/19/2025 11:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-06 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.17	0.34	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	ND		0.113	mg/L dry	1	5K20072	11/20/2025	11/22/2025	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.86		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	1.57		0.823	"	"	"	"	"	"
Sodium	0.806		0.435	"	"	"	"	"	"

Percent Solids

Total Solids, Percent	88.2			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.26			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	0.616		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG01@6'

11/19/2025 11:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-06 (Soil)
 Origins Laboratory**

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.442		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	0.618		0.215	mg/kg dry	10	5K20063	11/20/2025	11/21/2025	
Barium	ND		60.7	"	"	"	"	"	U
Cadmium	ND		0.281	"	"	"	"	"	U
Copper	ND		34.0	"	"	"	"	"	U
Lead	ND		10.4	"	"	"	"	"	U
Nickel	ND		19.2	"	"	"	"	"	U
Selenium	2.05		0.182	"	"	"	"	"	
Silver	ND		0.592	"	"	"	"	"	U
Zinc	ND		274	"	"	"	"	"	U

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG02@3'

11/19/2025 11:58:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-07 (Soil)
 Enthalpy Orange**

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.17	0.34	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	1.36		0.113	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	16.8		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	16.2		0.823	"	"	"	"	"	"
Sodium	7.87		0.435	"	"	"	"	"	"

Percent Solids

Total Solids, Percent	88.4			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.06			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	1.94		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG02@3'

11/19/2025 11:58:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-07 (Soil)
 Origins Laboratory**

Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.78		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.84		0.240	mg/kg dry	10	5K20063	11/20/2025	11/24/2025	
Barium	81.6		67.7	"	"	"	"	"	
Cadmium	ND		0.314	"	"	"	"	"	U
Copper	ND		38.0	"	"	"	"	"	U
Lead	ND		11.6	"	"	"	"	"	U
Nickel	ND		21.5	"	"	"	"	"	U
Selenium	0.629		0.203	"	"	"	"	"	
Silver	ND		0.661	"	"	"	"	"	U
Zinc	ND		306	"	"	"	"	"	U

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG02@6'
11/19/2025 12:01:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-08 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.17	0.33	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	ND		0.112	mg/L dry	1	5K20072	11/20/2025	11/22/2025	U
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Metals by Saturated Paste by EPA 6010

Calcium	2.69		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	2.37		0.823	"	"	"	"	"	"
Sodium	1.09		0.435	"	"	"	"	"	"

Percent Solids

Total Solids, Percent	89.1			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.18			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	0.683		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG02@6'

11/19/2025 12:01:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-08 (Soil)
 Origins Laboratory**

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.594		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.19		0.209	mg/kg dry	10	5K20064	11/20/2025	11/21/2025	
Barium	ND		58.8	"	"	"	"	"	U
Cadmium	ND		0.273	"	"	"	"	"	U
Copper	ND		33.0	"	"	"	"	"	U
Lead	ND		10.0	"	"	"	"	"	U
Nickel	ND		18.7	"	"	"	"	"	U
Selenium	1.67		0.177	"	"	"	"	"	
Silver	ND		0.574	"	"	"	"	"	U
Zinc	ND		266	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG03@3'
11/19/2025 12:06:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-09 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.15	0.30	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	ND		0.104	mg/L dry	1	5K20072	11/20/2025	11/22/2025	U
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Metals by Saturated Paste by EPA 6010

Calcium	0.718		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	0.841		0.823	"	"	"	"	"	"
Sodium	0.634		0.435	"	"	"	"	"	"

Percent Solids

Total Solids, Percent	95.4			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.31			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	0.718		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG03@3'
11/19/2025 12:06:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-09 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.234		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	0.762		0.202	mg/kg dry	10	5K20064	11/20/2025	11/21/2025	
Barium	ND		57.1	"	"	"	"	"	U
Cadmium	ND		0.264	"	"	"	"	"	U
Copper	ND		32.0	"	"	"	"	"	U
Lead	ND		9.74	"	"	"	"	"	U
Nickel	ND		18.1	"	"	"	"	"	U
Selenium	ND		0.171	"	"	"	"	"	U
Silver	ND		0.557	"	"	"	"	"	U
Zinc	ND		257	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG03@6'
11/19/2025 12:08:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-10 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.18	0.35	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	0.124		0.118	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	2.65		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	2.88		0.823	"	"	"	"	"	"
Sodium	1.65		0.435	"	"	"	"	"	"

Percent Solids

Total Solids, Percent	84.9			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.23			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	0.990		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG03@6'
11/19/2025 12:08:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-10 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.673		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	0.807		0.237	mg/kg dry	10	5K20064	11/20/2025	11/21/2025	
Barium	ND		67.0	"	"	"	"	"	U
Cadmium	ND		0.310	"	"	"	"	"	U
Copper	ND		37.6	"	"	"	"	"	U
Lead	ND		11.4	"	"	"	"	"	U
Nickel	ND		21.2	"	"	"	"	"	U
Selenium	0.640		0.201	"	"	"	"	"	
Silver	ND		0.653	"	"	"	"	"	U
Zinc	ND		302	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG04@3'
11/19/2025 12:13:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-11 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.17	0.33	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	0.173		0.109	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.46		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	2.00		0.823	"	"	"	"	"	"
Sodium	1.97		0.435	"	"	"	"	"	"

Percent Solids

Total Solids, Percent	90.8			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.31			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	1.50		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG04@3'
11/19/2025 12:13:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-11 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.529		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.24		0.220	mg/kg dry	10	5K20064	11/20/2025	11/24/2025	
Barium	ND		62.0	"	"	"	"	"	U
Cadmium	ND		0.288	"	"	"	"	"	U
Copper	ND		34.8	"	"	"	"	"	U
Lead	ND		10.6	"	"	"	"	11/21/2025	U
Nickel	ND		19.7	"	"	"	"	"	U
Selenium	ND		0.186	"	"	"	"	11/24/2025	U
Silver	ND		0.605	"	"	"	"	"	U
Zinc	ND		280	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG04@6'
11/19/2025 12:16:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-12 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.16	0.32	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	ND		0.108	mg/L dry	1	5K20072	11/20/2025	11/22/2025	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.06		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	1.16		0.823	"	"	"	"	"	"
Sodium	1.06		0.435	"	"	"	"	"	"

Percent Solids

Total Solids, Percent	92.2			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.48			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	1.01		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG04@6'

11/19/2025 12:16:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-12 (Soil)
 Origins Laboratory**

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.330		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.14		0.224	mg/kg dry	10	5K20064	11/20/2025	11/21/2025	
Barium	ND		63.3	"	"	"	"	"	U
Cadmium	ND		0.293	"	"	"	"	"	U
Copper	ND		35.5	"	"	"	"	"	U
Lead	ND		10.8	"	"	"	"	"	U
Nickel	ND		20.1	"	"	"	"	"	U
Selenium	ND		0.190	"	"	"	"	"	U
Silver	ND		0.618	"	"	"	"	"	U
Zinc	ND		286	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG05@3'
11/19/2025 12:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-13 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.18	0.35	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	0.251		0.121	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	2.54		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	2.47		0.823	"	"	"	"	"	"
Sodium	3.70		0.435	"	"	"	"	"	"

Percent Solids

Total Solids, Percent	82.1			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.41			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	2.34		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG05@3'
11/19/2025 12:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-13 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.824		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.71		0.242	mg/kg dry	10	5K20064	11/20/2025	11/21/2025	
Barium	103		68.2	"	"	"	"	"	
Cadmium	ND		0.316	"	"	"	"	"	U
Copper	ND		38.3	"	"	"	"	"	U
Lead	68.8		11.6	"	"	"	"	"	
Nickel	ND		21.6	"	"	"	"	"	U
Selenium	0.596		0.205	"	"	"	"	"	
Silver	ND		0.665	"	"	"	"	"	U
Zinc	ND		308	"	"	"	"	"	U

Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG05@6'
11/19/2025 12:23:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-14 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.17	0.34	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	0.361		0.114	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.22		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	1.24		0.823	"	"	"	"	"	
Sodium	1.53		0.435	"	"	"	"	"	

Percent Solids

Total Solids, Percent	88.3			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.35			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	1.38		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG05@6'
11/19/2025 12:23:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-14 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.394		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.41		0.223	mg/kg dry	10	5K20064	11/20/2025	11/21/2025	
Barium	ND		62.8	"	"	"	"	"	U
Cadmium	ND		0.291	"	"	"	"	"	U
Copper	ND		35.3	"	"	"	"	"	U
Lead	ND		10.7	"	"	"	"	"	U
Nickel	ND		19.9	"	"	"	"	"	U
Selenium	0.202		0.189	"	"	"	"	"	
Silver	ND		0.613	"	"	"	"	"	U
Zinc	ND		284	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

Native-BG06@3'
11/19/2025 12:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-15 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.21	0.41	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	0.335		0.143	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	13.5		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	10.1		0.823	"	"	"	"	"	
Sodium	4.47		0.435	"	"	"	"	"	

Percent Solids

Total Solids, Percent	70.3			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.04			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	1.30		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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 WHS

Native-BG06@3'

11/19/2025 12:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-15 (Soil)
 Origins Laboratory**

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.98		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.97		0.280	mg/kg dry	10	5K20064	11/20/2025	11/21/2025	
Barium	94.8		79.1	"	"	"	"	"	
Cadmium	ND		0.367	"	"	"	"	"	U
Copper	ND		44.4	"	"	"	"	"	U
Lead	ND		13.5	"	"	"	"	"	U
Nickel	ND		25.1	"	"	"	"	"	U
Selenium	1.20		0.237	"	"	"	"	"	
Silver	ND		0.772	"	"	"	"	"	U
Zinc	ND		357	"	"	"	"	"	U

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 WHS

Native-BG06@6'
11/19/2025 12:31:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5K0501-16 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.18	0.36	mg/Kg dry	1	389099	12/03/2025	12/04/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	0.226		0.124	mg/L dry	1	5K20072	11/20/2025	11/22/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	2.63		0.499	meq/L	10	[CALC]	11/20/2025	11/24/2025	
Magnesium	3.06		0.823	"	"	"	"	"	
Sodium	2.02		0.435	"	"	"	"	"	

Percent Solids

Total Solids, Percent	80.5			mass percent	1	5K20112	11/20/2025	11/20/2025	
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pH in Soil by 9045D

pH	8.26			pH Units	1	5K20082	11/20/2025	11/22/2025	
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SAR by 20B Saturated Paste

SAR	1.20		0.0100	SAR	1	5K20077	11/20/2025	11/24/2025	
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 WHS

Native-BG06@6'

11/19/2025 12:31:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5K0501-16 (Soil)
 Origins Laboratory**

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.700		0.00500	mmhos/cm	1	5K20082	11/20/2025	11/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.12		0.231	mg/kg dry	10	5K20064	11/20/2025	11/21/2025	
Barium	ND		65.3	"	"	"	"	"	U
Cadmium	ND		0.303	"	"	"	"	"	U
Copper	ND		36.6	"	"	"	"	"	U
Lead	ND		11.1	"	"	"	"	"	U
Nickel	ND		20.7	"	"	"	"	"	U
Selenium	0.347		0.196	"	"	"	"	"	
Silver	ND		0.637	"	"	"	"	"	U
Zinc	ND		295	"	"	"	"	"	U

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*** 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 5K20112 - % Solids

Duplicate (5K20112-DUP1)

Source: E5K0501-01

Prepared: 11/20/2025 Analyzed: 11/20/2025

Total Solids, Percent	79.7		mass percent		77.7			2.56	20	
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Duplicate (5K20112-DUP2)

Source: E5K0501-02

Prepared: 11/20/2025 Analyzed: 11/20/2025

Total Solids, Percent	81.0		mass percent		80.5			0.593	20	
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Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHs

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 5K20072 - DTPA Sorbitol Preparation

Blank (5K20072-BLK1)

Prepared: 11/20/2025 Analyzed: 11/22/2025

(DTPA Sorbitol) Boron ND 0.100 mg/L wet U

Duplicate (5K20072-DUP1)

Source: E5K0498-33

Prepared: 11/20/2025 Analyzed: 11/22/2025

(DTPA Sorbitol) Boron 0.282 0.117 mg/L dry 0.294 3.95 50

Batch 5K20076 - Saturated Paste Metals

Blank (5K20076-BLK1)

Prepared: 11/20/2025 Analyzed: 11/24/2025

SAR ND 0.0100 SAR U

Calcium PPM ND 10.0 mg/L U

Magnesium PPM ND 10.0 " U

Sodium PPM ND 10.0 " U

Duplicate (5K20076-DUP1)

Source: E5K0498-16

Prepared: 11/20/2025 Analyzed: 11/24/2025

SAR ND 0.0100 SAR 0.677 200 U

Calcium PPM 23.6 10.0 mg/L 22.2 6.06 50

Magnesium PPM 6.61 10.0 " 6.16 7.05 50 U

Sodium PPM 14.8 10.0 " 14.0 5.56 50

Batch 5K20077 - Saturated Paste Metals

Blank (5K20077-BLK1)

Prepared: 11/20/2025 Analyzed: 11/24/2025

SAR ND 0.0100 SAR U

Calcium PPM ND 10.0 mg/L U

Magnesium PPM ND 10.0 " U

Sodium PPM ND 10.0 " U

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Jeremy Espinoza
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 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

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 5K20077 - Saturated Paste Metals

Duplicate (5K20077-DUP1)

Source: E5K0501-03

Prepared: 11/20/2025 Analyzed: 11/24/2025

SAR	ND	0.0100	SAR		0.939			200		U
Calcium PPM	85.9	10.0	mg/L		82.6			3.86	50	
Magnesium PPM	24.5	10.0	"		24.4			0.286	50	
Sodium PPM	37.1	10.0	"		37.8			1.98	50	

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Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHS

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 5K21111 - EPA 3580

Blank (5K21111-BLK1)

Prepared: 11/21/2025 Analyzed: 11/24/2025

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	190		ug/kg	200		93.7	60-130			
Surrogate: Anthracene-d10	200		"	200		99.2	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

LCS (5K21111-B51)

Prepared: 11/21/2025 Analyzed: 11/24/2025

1-Methylnaphthalene	0.205	0.002	mg/kg wet	0.202		102	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.202		98.8	70-130			
Acenaphthene	0.205	0.020	"	0.202		101	70-130			
Anthracene	0.201	0.020	"	0.202		99.7	70-130			
Benzo (a) anthracene	0.205	0.005	"	0.202		102	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.202		100	70-130			

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 WHs

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 5K21111 - EPA 3580

LCS (5K21111-BS1)

Prepared: 11/21/2025 Analyzed: 11/24/2025

Benzo (b) fluoranthene	0.208	0.020	mg/kg wet	0.202		103	70-130			
Benzo (k) fluoranthene	0.201	0.020	"	0.202		99.6	70-130			
Chrysenes	0.206	0.020	"	0.202		102	70-130			
Dibenz (a,h) anthracene	0.191	0.020	"	0.202		94.5	70-130			
Fluoranthene	0.190	0.020	"	0.202		94.0	70-130			
Fluorene	0.197	0.020	"	0.202		97.4	70-130			
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.202		93.0	70-130			
Naphthalene	0.211	0.002	"	0.202		104	70-130			
Pyrene	0.217	0.020	"	0.202		108	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		93.8	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.6	60-130			

Matrix Spike (5K21111-MS1)

Source: E5K0501-01

Prepared: 11/21/2025 Analyzed: 11/25/2025

1-Methylnaphthalene	0.255	0.003	mg/kg dry	0.256	ND	99.3	70-130			
2-Methylnaphthalene	0.253	0.003	"	0.256	ND	98.7	70-130			
Acenaphthene	0.258	0.026	"	0.256	ND	100	70-130			
Anthracene	0.254	0.026	"	0.256	ND	99.1	70-130			
Benzo (a) anthracene	0.258	0.006	"	0.256	0.004	99.2	70-130			
Benzo (a) pyrene	0.254	0.026	"	0.256	0.004	97.4	70-130			
Benzo (b) fluoranthene	0.269	0.026	"	0.256	0.005	103	70-130			
Benzo (k) fluoranthene	0.263	0.026	"	0.256	0.002	102	70-130			
Chrysenes	0.263	0.026	"	0.256	0.005	101	70-130			
Dibenz (a,h) anthracene	0.237	0.026	"	0.256	0.001	91.8	70-130			
Fluoranthene	0.245	0.026	"	0.256	0.005	93.4	70-130			
Fluorene	0.246	0.026	"	0.256	ND	95.8	70-130			

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Jeremy Espinoza
Project Number: 09A14171459
Project: KMG - Lot Holding 1-3 & Loveland 8-3
WHs

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 5K21111 - EPA 3580

Matrix Spike (5K21111-MS1)		Source: E5K0501-01			Prepared: 11/21/2025 Analyzed: 11/25/2025					
Indeno (1,2,3-cd) pyrene	0.247	0.026	mg/kg dry	0.256	0.003	95.1	70-130			
Naphthalene	0.267	0.003	"	0.256	ND	104	70-130			
Pyrene	0.283	0.026	"	0.256	0.006	108	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		93.1	60-130			
Surrogate: Anthracene-d10	190		"	200		97.1	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

Matrix Spike Dup (5K21111-MSD1)		Source: E5K0501-01			Prepared: 11/21/2025 Analyzed: 11/24/2025					
1-Methylnaphthalene	0.262	0.003	mg/kg dry	0.257	ND	102	70-130	2.73	20	
2-Methylnaphthalene	0.257	0.003	"	0.257	ND	100	70-130	1.56	20	
Acenaphthene	0.262	0.026	"	0.257	ND	102	70-130	1.63	20	
Anthracene	0.260	0.026	"	0.257	ND	101	70-130	2.10	20	
Benzo (a) anthracene	0.263	0.006	"	0.257	0.004	101	70-130	1.71	20	
Benzo (a) pyrene	0.260	0.026	"	0.257	0.004	99.6	70-130	2.34	20	
Benzo (b) fluoranthene	0.268	0.026	"	0.257	0.005	102	70-130	0.397	20	
Benzo (k) fluoranthene	0.266	0.026	"	0.257	0.002	103	70-130	1.04	20	
Chrysene	0.268	0.026	"	0.257	0.005	102	70-130	1.90	20	
Dibenz (a,h) anthracene	0.250	0.026	"	0.257	0.001	96.7	70-130	5.46	20	
Fluoranthene	0.250	0.026	"	0.257	0.005	95.2	70-130	1.98	20	
Fluorene	0.252	0.026	"	0.257	ND	98.2	70-130	2.76	20	
Indeno (1,2,3-cd) pyrene	0.244	0.026	"	0.257	0.003	93.7	70-130	1.27	20	
Naphthalene	0.270	0.003	"	0.257	ND	105	70-130	1.08	20	
Pyrene	0.283	0.026	"	0.257	0.006	108	70-130	0.106	20	
Surrogate: Fluorene-d10	190		ug/kg	200		93.9	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			

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 WHs

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 5K21111 - EPA 3580

Matrix Spike Dup (5K21111-MSD1)

Source: E5K0501-01

Prepared: 11/21/2025 Analyzed: 11/24/2025

Surrogate: Benzo (a) pyrene-d12	200		ug/kg	200	98.6		60-130			
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171459
 Project: KMG - Lot Holding 1-3 & Loveland 8-3
 WHs

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 5K21021 - EPA 3550B

Prepared: 11/21/2025 Analyzed: 11/21/2025

Blank (5K21021-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	100	"							U

Surrogate: o-Terphenyl

LCS (5K21021-BS1)

Prepared: 11/21/2025 Analyzed: 11/21/2025

Diesel (C10-C28)	1080	50.5	mg/kg wet	1010		107	70-130			
Residual Range Organics (C28-C36)	1160	202	"	1010		115	70-130			

Surrogate: o-Terphenyl

Matrix Spike (5K21021-MS1)

Source: E5K0498-26

Prepared: 11/21/2025 Analyzed: 11/21/2025

Diesel (C10-C28)	1220	57.2	mg/kg dry	1140	ND	106	70-130			
Residual Range Organics (C28-C36)	1310	229	"	1140	ND	114	70-130			

Surrogate: o-Terphenyl

Matrix Spike Dup (5K21021-MSD1)

Source: E5K0498-26

Prepared: 11/21/2025 Analyzed: 11/21/2025

Diesel (C10-C28)	1260	57.5	mg/kg dry	1150	ND	109	70-130	3.25	35	
Residual Range Organics (C28-C36)	1350	230	"	1150	ND	117	70-130	3.37	35	

Surrogate: o-Terphenyl

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 WHs

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 5K20063 - EPA 3050B

Blank (5K20063-BLK1)

Prepared: 11/20/2025 Analyzed: 11/21/2025

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 (5K20063-BS1)

Prepared: 11/20/2025 Analyzed: 11/24/2025

Arsenic	4.85	0.218	mg/kg wet	5.00		97.1	80-120			
Barium	555	61.5	"	500		111	80-120			
Cadmium	5.20	0.285	"	5.00		104	80-120			
Copper	48.3	34.5	"	50.0		96.6	80-120			
Lead	5.14	10.5	"	5.00		103	80-120			U
Nickel	4.85	19.5	"	5.00		96.9	80-120			U
Selenium	5.22	0.184	"	5.00		104	80-120			
Silver	5.60	0.600	"	5.00		112	80-120			
Zinc	47.0	278	"	50.0		94.1	80-120			U

Matrix Spike (5K20063-MS1)

Source: E5K0498-21

Prepared: 11/20/2025 Analyzed: 11/24/2025

Arsenic	11.3	0.212	mg/kg dry	4.85	3.39	163	75-125			QM-07
Barium	805	59.7	"	485	176	130	75-125			QM-07
Cadmium	5.61	0.277	"	4.85	0.132	113	75-125			
Copper	61.0	33.5	"	48.5	6.36	112	75-125			
Lead	18.9	10.2	"	4.85	10.2	180	75-125			QM-4X

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 WHs

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 5K20063 - EPA 3050B

Matrix Spike (5K20063-MS1)

Source: E5K0498-21

Prepared: 11/20/2025 Analyzed: 11/24/2025

Nickel	11.3	18.9	mg/kg dry	4.85	6.18	106	75-125			U
Selenium	6.00	0.179	"	4.85	0.271	118	75-125			
Silver	5.85	0.583	"	4.85	0.0234	120	75-125			
Zinc	78.6	269	"	48.5	30.6	98.9	75-125			U

Matrix Spike Dup (5K20063-MSD1)

Source: E5K0498-21

Prepared: 11/20/2025 Analyzed: 11/24/2025

Arsenic	7.89	0.224	mg/kg dry	5.15	3.39	87.5	75-125	35.5	20	QR-DUP
Barium	764	63.3	"	515	176	114	75-125	5.23	20	
Cadmium	5.32	0.293	"	5.15	0.132	101	75-125	5.21	20	
Copper	52.8	35.5	"	51.5	6.36	90.3	75-125	14.3	20	
Lead	16.2	10.8	"	5.15	10.2	118	75-125	15.3	20	
Nickel	10.5	20.1	"	5.15	6.18	84.0	75-125	7.39	20	U
Selenium	5.52	0.190	"	5.15	0.271	102	75-125	8.28	20	
Silver	5.52	0.618	"	5.15	0.0234	107	75-125	5.86	20	
Zinc	73.2	286	"	51.5	30.6	82.8	75-125	7.13	20	U

Batch 5K20064 - EPA 3050B

Blank (5K20064-BLK1)

Prepared: 11/20/2025 Analyzed: 11/21/2025

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

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 WHs

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 5K20064 - EPA 3050B

Blank (5K20064-BLK1)

Prepared: 11/20/2025 Analyzed: 11/21/2025

Zinc	ND	278	mg/kg wet							U
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LCS (5K20064-BS1)

Prepared: 11/20/2025 Analyzed: 11/24/2025

Arsenic	4.86	0.218	mg/kg wet	5.00		97.2	80-120			
Barium	566	61.5	"	500		113	80-120			
Cadmium	5.24	0.285	"	5.00		105	80-120			
Copper	48.7	34.5	"	50.0		97.3	80-120			
Lead	5.26	10.5	"	5.00		105	80-120			U
Nickel	4.90	19.5	"	5.00		98.0	80-120			U
Selenium	5.22	0.184	"	5.00		104	80-120			
Silver	5.58	0.600	"	5.00		112	80-120			
Zinc	47.6	278	"	50.0		95.2	80-120			U

Matrix Spike (5K20064-MS1)

Source: E5K0501-11

Prepared: 11/20/2025 Analyzed: 11/24/2025

Arsenic	5.85	0.215	mg/kg dry	4.94	1.24	93.4	75-125			
Barium	604	60.8	"	494	27.4	117	75-125			
Cadmium	5.45	0.282	"	4.94	0.0424	110	75-125			
Copper	52.0	34.1	"	49.4	2.73	99.8	75-125			
Lead	7.72	10.4	"	4.94	3.29	89.7	75-125			U
Nickel	10.6	19.3	"	4.94	7.07	72.1	75-125			QM-07, U
Selenium	5.53	0.182	"	4.94	0.115	110	75-125			
Silver	5.83	0.593	"	4.94	0.0131	118	75-125			
Zinc	64.7	274	"	49.4	16.2	98.2	75-125			U

Matrix Spike Dup (5K20064-MSD1)

Source: E5K0501-11

Prepared: 11/20/2025 Analyzed: 11/24/2025

Arsenic	6.50	0.217	mg/kg dry	4.98	1.24	106	75-125	10.5	20	
Barium	633	61.3	"	498	27.4	122	75-125	4.67	20	

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 WHS

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 5K20064 - EPA 3050B

Matrix Spike Dup (5K20064-MSD1)

Source: E5K0501-11

Prepared: 11/20/2025 Analyzed: 11/24/2025

Cadmium	5.47	0.284	mg/kg dry	4.98	0.0424	109	75-125	0.247	20	
Copper	55.5	34.4	"	49.8	2.73	106	75-125	6.45	20	
Lead	9.79	10.5	"	4.98	3.29	131	75-125	23.6	20	QM-07, QR-DUP
Nickel	15.0	19.4	"	4.98	7.07	158	75-125	33.8	20	QM-07, QR-DUP
Selenium	5.47	0.184	"	4.98	0.115	107	75-125	1.17	20	
Silver	5.74	0.598	"	4.98	0.0131	115	75-125	1.48	20	
Zinc	76.1	277	"	49.8	16.2	120	75-125	16.2	20	U

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 WHs

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 5K20081 - Saturated Paste pH/EC

Blank (5K20081-BLK1)

Prepared: 11/20/2025 Analyzed: 11/22/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm U

Duplicate (5K20081-DUP1)

Source: E5K0498-16

Prepared: 11/20/2025 Analyzed: 11/22/2025

pH 8.41 pH Units 8.43 0.238 25

Specific Conductance (EC) 0.348 0.00500 mmhos/cm 0.322 7.55 25

Batch 5K20082 - Saturated Paste pH/EC

Blank (5K20082-BLK1)

Prepared: 11/20/2025 Analyzed: 11/22/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm U

Duplicate (5K20082-DUP1)

Source: E5K0501-03

Prepared: 11/20/2025 Analyzed: 11/22/2025

pH 8.17 pH Units 8.07 1.23 25

Specific Conductance (EC) 0.865 0.00500 mmhos/cm 0.866 0.139 25

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WHS

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 5K21020 - EPA 5030 (soil)

Prepared: 11/21/2025 Analyzed: 11/21/2025

Blank (5K21020-BLK1)

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

96.7

70-130

Surrogate: Toluene-d8

0.13

"

0.125

101

70-130

Surrogate: 4-Bromofluorobenzene

0.13

"

0.125

103

70-130

LCS (5K21020-BS1)

Prepared: 11/21/2025 Analyzed: 11/21/2025

1,2,4-Trimethylbenzene	0.113	0.002	mg/kg wet	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.113	0.002	"	0.100		113	70-130			
Benzene	0.103	0.002	"	0.100		103	70-130			
Ethylbenzene	0.114	0.002	"	0.100		114	70-130			
Toluene	0.106	0.002	"	0.100		106	70-130			
o-Xylene	0.113	0.002	"	0.100		113	70-130			
m,p-Xylene	0.230	0.004	"	0.200		115	70-130			

Surrogate: 1,2-Dichloroethane-d4

0.12

"

0.125

94.2

70-130

Surrogate: Toluene-d8

0.13

"

0.125

102

70-130

Surrogate: 4-Bromofluorobenzene

0.13

"

0.125

103

70-130

Matrix Spike (5K21020-MS1)

Source: E5K0466-01

Prepared: 11/21/2025 Analyzed: 11/21/2025

1,2,4-Trimethylbenzene	0.120	0.002	mg/kg dry	0.109	ND	110	70-130			
1,3,5-Trimethylbenzene	0.119	0.002	"	0.109	ND	109	70-130			
Benzene	0.117	0.002	"	0.109	ND	107	70-130			

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 WHS

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 5K21020 - EPA 5030 (soil)

Matrix Spike (5K21020-MS1)

Source: E5K0466-01

Prepared: 11/21/2025 Analyzed: 11/21/2025

Ethylbenzene	0.123	0.002	mg/kg dry	0.109	ND	113	70-130			
Toluene	0.121	0.002	"	0.109	ND	111	70-130			
o-Xylene	0.122	0.002	"	0.109	ND	112	70-130			
m,p-Xylene	0.247	0.004	"	0.218	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.136		97.8	70-130			
Surrogate: Toluene-d8	0.14		"	0.136		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.136		100	70-130			

Matrix Spike Dup (5K21020-MSD1)

Source: E5K0466-01

Prepared: 11/21/2025 Analyzed: 11/21/2025

1,2,4-Trimethylbenzene	0.106	0.002	mg/kg dry	0.106	ND	99.8	70-130	12.7	20	
1,3,5-Trimethylbenzene	0.104	0.002	"	0.106	ND	98.3	70-130	13.0	20	
Benzene	0.106	0.002	"	0.106	ND	100	70-130	9.23	20	
Ethylbenzene	0.109	0.002	"	0.106	ND	103	70-130	12.4	20	
Toluene	0.108	0.002	"	0.106	ND	102	70-130	11.2	20	
o-Xylene	0.108	0.002	"	0.106	ND	102	70-130	12.2	20	
m,p-Xylene	0.218	0.004	"	0.212	ND	103	70-130	12.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.132		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.132		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.132		100	70-130			

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 WHs

TOTAL METALS BY EPA 7199 - Quality Control
Enthalpy Orange

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 389099 - EPA 3060A										
BLANK (QC1319000)										
					Prepared: 12/03/2025 Analyzed: 12/04/2025					
Hexavalent Chromium	ND	0.29	mg/Kg				-			ND
LCS (QC1319001)										
					Prepared: 12/03/2025 Analyzed: 12/04/2025					
Hexavalent Chromium	38.70	0.5929	mg/Kg	39.53		98	80-120			
Duplicate (QC1319002)										
					Source: 547773-001 Prepared: 12/03/2025 Analyzed: 12/05/2025					
Hexavalent Chromium	ND	0.3145	mg/Kg dry		0		-		30	ND
Matrix Spike (QC1319003)										
					Source: 547773-001 Prepared: 12/03/2025 Analyzed: 12/04/2025					
Hexavalent Chromium	1.676	0.6144	mg/Kg dry	40.96	0	4	70-130			*

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WHS

Notes and Definitions

- U Sample is Non-Detect.
- QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Not Detected
- J Sample result was found between MDL and RL
- * Value is outside QC limits
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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