



Ensolum

August 18, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Herman L 32-14 Wellhead Project Number - 09A14171096

Attached are your analytical results for KMG - Herman L 32-14 Wellhead received by Origins Laboratory July 29, 2025. This project is associated with Origins project number E5G0664-01.

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

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

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

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

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

Origins Laboratory
303.433.1322
projectmanager@originslab.com





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

Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NATIVE-BG10@3'	E5G0664-01	Soil	July 29, 2025 10:45	07/29/2025 16:45
NATIVE-BG10@5'	E5G0664-02	Soil	July 29, 2025 10:55	07/29/2025 16:45
NATIVE-BG11@3'	E5G0664-03	Soil	July 29, 2025 11:25	07/29/2025 16:45
NATIVE-BG11@5'	E5G0664-04	Soil	July 29, 2025 11:35	07/29/2025 16:45
NATIVE-BG12@3'	E5G0664-05	Soil	July 29, 2025 12:00	07/29/2025 16:45
NATIVE-BG12@5'	E5G0664-06	Soil	July 29, 2025 12:15	07/29/2025 16:45
NATIVE-BG13@3'	E5G0664-07	Soil	July 29, 2025 10:50	07/29/2025 16:45
NATIVE-BG13@5'	E5G0664-08	Soil	July 29, 2025 11:00	07/29/2025 16:45
NATIVE-BG14@3'	E5G0664-09	Soil	July 29, 2025 11:40	07/29/2025 16:45
NATIVE-BG14@5'	E5G0664-10	Soil	July 29, 2025 11:45	07/29/2025 16:45
NATIVE-BG15@3'	E5G0664-11	Soil	July 29, 2025 12:15	07/29/2025 16:45
NATIVE-BG15@5'	E5G0664-12	Soil	July 29, 2025 12:20	07/29/2025 16:45
GW-NATIVE-BG10@3'	E5G0664-13	Water	July 29, 2025 11:05	07/29/2025 16:45
GW-NATIVE-BG13@3'	E5G0664-14	Water	July 29, 2025 11:15	07/29/2025 16:45

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Jeremy Espinoza
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CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-NATIVE-BG15@3'	E5G0664-15	Water	July 29, 2025 12:30	07/29/2025 16:45

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Evolution

Page 1 of 2

#	Sample Id	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis			Comments
							W	U	S	
1	WATTE-BG1005	7/29	1045	2	S	WUP	X	X	X	
2	WATTE-BG1005		1055				X	X	X	
3	WATTE-BG1005		1125				X	X	X	
4	WATTE-BG1005		1135				X	X	X	
5	WATTE-BG1005		1200				X	X	X	
6	WATTE-BG1005		1215				X	X	X	
7	WATNE-BG1305		1050				X	X	X	
8	WATNE-BG1305		1100				X	X	X	
9	WATNE-BG1305		1140				X	X	X	
10	WATNE-BG1105		1145				X	X	X	

Relinquished By: [Signature]
 Date: 7/29/25
 Time: 645
 Received By: NEM
 Date: 07/29/25
 Time: 1645

Turnaround Time
 SAME DAY
 24 Hr
 48 Hr
 72 Hr
 Standard

Temp Received: 1.6°C
 Received On Ice? Yes No

Client: Ensolum
 Project Name: Herman L 32-14 Wellhead
 Project Number: 09A14171096
 Project Manager: J. Espinoza
 Key: W=Water
 U=Groundwater
 S=Surface Water
 WU=Waste Water
 L=Liquid

Telephone Number: _____
 Email Address: KMGTEAM
 Invoicing Info: Empire/TKY

Origins Laboratory
[Signature]

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Ensolum
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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

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 LABORATORY

ESOLOVA

Page 2 of 2

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis				Comments
						H ₂ O	BAR	NO ₃ -N	NO ₂ -N	
1	GMWTE-BG1505	7/29	12:5	2	5 H ₂ O	X	X	X	X	
2	GMWTE-BG1505	7/29	12:20	2	5 H ₂ O	X	X	X	X	
3	GMWTE-BG1505	7/29	11:05	1	1 CW					
4	GMWTE-BG1505	7/29	11:15	1						
5	GMWTE-BG1505	7/29	12:30	1		X	X			
6										
7										
8										
9										
10										

Requisitioned By: [Signature] Date: 7/29/25 Time: 16:15
 Received By: NEM Date: 07/19/25 Time: 16:45

Turnaround Time
 SAME DAY
 24 Hr
 Standard
 48 Hr
 72

Temp Received: 2.6°C Received On Ice? Yes No

Client: Ensolum Project Manager: J. Espinoza
 Address: _____ Project Name: Herman L 32-14 Wellhead
 Telephone Number: _____ Collected By: ESOLOVA
 Email Address: KMG@TOWN Invoice Billing Info: Impacted/OKY
 Project Number: 09A14171096 Project: KMG - Herman L 32-14 Wellhead
 S-Soil | SO-Solid | O=Oil | A=Air | S=Gas | U=Vapors | HCl = Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide
 =Liquid | W=Water | CW=Circumducter | SW=Surface Water | WW=Waste Water

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[Signature]

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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

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

Sample Receipt Checklist

Origins Work Order: ESG0664

Client: Ensolum

Client Project ID: Herman L 32-14 WH

Checklist Completed by: smc/nkm

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

Date/time completed: 7/31/12

Airbill #: N/A

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

Cooler Number/Temperature: 1/2.6 °C

Thermometer ID: T-007

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

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

Reviewed by (Project Manager)

01/01/12
 Date/Time Reviewed

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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

NATIVE-BG10@3'
7/29/2025 10:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-01 (Soil)									
Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.16	0.29	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.364		0.100	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	0.862		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	7.05		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.38			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	8.31		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.815		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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NATIVE-BG10@3'
7/29/2025 10:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.79		0.264	mg/kg	10	B5G3129	07/31/2025	08/06/2025	
Barium	ND		74.7	"	"	"	"	"	U
Cadmium	ND		0.346	"	"	"	"	"	U
Copper	ND		41.9	"	"	"	"	"	U
Lead	ND		12.8	"	"	"	"	"	U
Nickel	ND		23.7	"	"	"	"	"	U
Selenium	ND		0.237	"	"	"	"	"	U
Silver	ND		0.729	"	"	"	"	"	U
Zinc	ND		337	"	"	"	"	"	U

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NATIVE-BG10@5'
7/29/2025 10:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-02 (Soil) Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.602		0.0998	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.18		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.37		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.23			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	6.52		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.822		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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NATIVE-BG10@5'
7/29/2025 10:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.37		0.262	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	190		74.0	"	"	"	"	"	
Cadmium	ND		0.343	"	"	"	"	"	U
Copper	ND		41.5	"	"	"	"	"	U
Lead	ND		12.6	"	"	"	"	"	U
Nickel	ND		23.5	"	"	"	"	"	U
Selenium	0.248		0.235	"	"	"	"	"	
Silver	ND		0.722	"	"	"	"	"	U
Zinc	ND		334	"	"	"	"	"	U

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NATIVE-BG11@3'
7/29/2025 11:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-03 (Soil) Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.16	0.29	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.196		0.100	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.13		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	5.62		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	7.85			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	5.89		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.803		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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NATIVE-BG11@3'
7/29/2025 11:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.00		0.260	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	ND		73.5	"	"	"	"	"	U
Cadmium	ND		0.340	"	"	"	"	"	U
Copper	ND		41.2	"	"	"	"	"	U
Lead	ND		12.5	"	"	"	"	"	U
Nickel	ND		23.3	"	"	"	"	"	U
Selenium	ND		0.233	"	"	"	"	"	U
Silver	ND		0.717	"	"	"	"	"	U
Zinc	ND		331	"	"	"	"	"	U

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NATIVE-BG11@5'
7/29/2025 11:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-04 (Soil)									
Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.106		0.100	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.47		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	0.831		0.823	"	"	"	"	"	"
Sodium	5.33		0.435	"	"	"	"	"	"
pH in Soil by 9045D									
pH	7.57			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	4.97		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.768		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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NATIVE-BG11@5'
7/29/2025 11:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.51		0.270	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	ND		76.3	"	"	"	"	"	U
Cadmium	ND		0.354	"	"	"	"	"	U
Copper	ND		42.8	"	"	"	"	"	U
Lead	ND		13.0	"	"	"	"	"	U
Nickel	ND		24.2	"	"	"	"	"	U
Selenium	ND		0.242	"	"	"	"	"	U
Silver	ND		0.744	"	"	"	"	"	U
Zinc	ND		344	"	"	"	"	"	U

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NATIVE-BG12@3'
7/29/2025 12:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-05 (Soil) Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	379022	08/12/2025	08/15/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.165		0.101	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	2.80		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	1.47		0.823	"	"	"	"	"	
Sodium	4.80		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	7.43			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	3.29		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.879		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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NATIVE-BG12@3'
7/29/2025 12:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.70		0.255	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	ND		72.2	"	"	"	"	"	U
Cadmium	ND		0.335	"	"	"	"	"	U
Copper	ND		40.5	"	"	"	"	"	U
Lead	ND		12.3	"	"	"	"	"	U
Nickel	ND		22.9	"	"	"	"	"	U
Selenium	ND		0.229	"	"	"	"	"	U
Silver	ND		0.704	"	"	"	"	"	U
Zinc	ND		326	"	"	"	"	"	U

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 Project: KMG - Herman L 32-14 Wellhead

NATIVE-BG12@5'
7/29/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-06 (Soil) Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.104		0.0997	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.15		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.81		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.13			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	4.09		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.603		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

NATIVE-BG12@5'
7/29/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.10		0.260	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	ND		73.5	"	"	"	"	"	U
Cadmium	ND		0.341	"	"	"	"	"	U
Copper	ND		41.2	"	"	"	"	"	U
Lead	ND		12.6	"	"	"	"	"	U
Nickel	ND		23.3	"	"	"	"	"	U
Selenium	ND		0.233	"	"	"	"	"	U
Silver	ND		0.717	"	"	"	"	"	U
Zinc	ND		332	"	"	"	"	"	U

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NATIVE-BG13@3'
7/29/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-07 (Soil) Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.110		0.0997	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.02		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.76		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	7.78			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	4.32		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.556		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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NATIVE-BG13@3'
7/29/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	0.931		0.264	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	ND		74.6	"	"	"	"	"	U
Cadmium	ND		0.346	"	"	"	"	"	U
Copper	ND		41.8	"	"	"	"	"	U
Lead	ND		12.7	"	"	"	"	"	U
Nickel	ND		23.6	"	"	"	"	"	U
Selenium	ND		0.236	"	"	"	"	"	U
Silver	ND		0.728	"	"	"	"	"	U
Zinc	ND		336	"	"	"	"	"	U

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NATIVE-BG13@5'
7/29/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-08 (Soil) Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.16	0.29	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.122		0.100	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	0.827		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.04		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.07			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	3.86		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.489		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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NATIVE-BG13@5'
7/29/2025 11:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-08 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	0.914		0.269	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	ND		76.1	"	"	"	"	"	U
Cadmium	ND		0.353	"	"	"	"	"	U
Copper	ND		42.7	"	"	"	"	"	U
Lead	ND		13.0	"	"	"	"	"	U
Nickel	ND		24.1	"	"	"	"	"	U
Selenium	ND		0.241	"	"	"	"	"	U
Silver	ND		0.742	"	"	"	"	"	U
Zinc	ND		343	"	"	"	"	"	U

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NATIVE-BG14@3'
7/29/2025 11:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-09 (Soil) Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.208		0.100	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	ND		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.05		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.14			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	6.39		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.508		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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NATIVE-BG14@3'
7/29/2025 11:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-09 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.10		0.258	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	ND		73.0	"	"	"	"	"	U
Cadmium	ND		0.338	"	"	"	"	"	U
Copper	ND		40.9	"	"	"	"	"	U
Lead	ND		12.5	"	"	"	"	"	U
Nickel	ND		23.1	"	"	"	"	"	U
Selenium	ND		0.231	"	"	"	"	"	U
Silver	ND		0.712	"	"	"	"	"	U
Zinc	ND		329	"	"	"	"	"	U

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NATIVE-BG14@5'
7/29/2025 11:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-10 (Soil)
Enthalpy Orange

Total Metals by 7199

Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
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Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B5G3126	07/31/2025	08/04/2025	U
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Metals by Saturated Paste by EPA 6010

Calcium	0.505		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	ND		0.823	"	"	"	"	"	"
Sodium	1.98		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.87			pH Units	1	B5G3128	07/31/2025	08/02/2025	
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SAR by 20B Saturated Paste

SAR	3.11		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.310		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	
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NATIVE-BG14@5'
7/29/2025 11:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-10 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.39		0.258	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	ND		72.9	"	"	"	"	"	U
Cadmium	ND		0.338	"	"	"	"	"	U
Copper	ND		40.9	"	"	"	"	"	U
Lead	ND		12.4	"	"	"	"	"	U
Nickel	ND		23.1	"	"	"	"	"	U
Selenium	ND		0.231	"	"	"	"	"	U
Silver	ND		0.711	"	"	"	"	"	U
Zinc	ND		329	"	"	"	"	"	U

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NATIVE-BG15@3'
7/29/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-11 (Soil) Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.278		0.100	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	0.976		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	7.08		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	7.72			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	7.71		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.944		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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 Project: KMG - Herman L 32-14 Wellhead

NATIVE-BG15@3'
7/29/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-11 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.71		0.272	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	ND		77.0	"	"	"	"	"	U
Cadmium	ND		0.357	"	"	"	"	"	U
Copper	ND		43.2	"	"	"	"	"	U
Lead	ND		13.2	"	"	"	"	"	U
Nickel	ND		24.4	"	"	"	"	"	U
Selenium	ND		0.244	"	"	"	"	"	U
Silver	ND		0.751	"	"	"	"	"	U
Zinc	ND		348	"	"	"	"	"	U

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NATIVE-BG15@5'
7/29/2025 12:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-12 (Soil)									
Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	379022	08/12/2025	08/14/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.149		0.101	mg/L	1	B5G3126	07/31/2025	08/04/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.35		0.499	meq/L	10	[CALC]	07/31/2025	08/04/2025	
Magnesium	0.899		0.823	"	"	"	"	"	"
Sodium	7.43		0.435	"	"	"	"	"	"
pH in Soil by 9045D									
pH	7.72			pH Units	1	B5G3128	07/31/2025	08/02/2025	
SAR by 20B Saturated Paste									
SAR	7.01		0.0100	SAR	1	B5G3127	07/31/2025	08/04/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.937		0.00500	mmhos/cm	1	B5G3128	07/31/2025	08/02/2025	

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 Project: KMG - Herman L 32-14 Wellhead

NATIVE-BG15@5'
7/29/2025 12:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5G0664-12 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.70		0.261	mg/kg	10	B5G3129	07/31/2025	08/05/2025	
Barium	ND		73.8	"	"	"	"	"	U
Cadmium	ND		0.342	"	"	"	"	"	U
Copper	ND		41.4	"	"	"	"	"	U
Lead	ND		12.6	"	"	"	"	"	U
Nickel	ND		23.4	"	"	"	"	"	U
Selenium	ND		0.234	"	"	"	"	"	U
Silver	ND		0.720	"	"	"	"	"	U
Zinc	ND		333	"	"	"	"	"	U

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 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

GW-NATIVE-BG10@3'
7/29/2025 11:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-13 (Water) Enthalpy Analytical									
TDS by 2540C									
TDS	1410	10	10	mg/L	1	BIH0160	08/05/2025	08/05/2025	
Origins Laboratory									
Chloride and Sulfate By EPA 300.0									
Chloride	336		31.2	mg/L	125	B5H0104	08/01/2025	08/01/2025	
Sulfate	696		31.2	"	"	"	"	"	

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 Project: KMG - Herman L 32-14 Wellhead

GW-NATIVE-BG13@3'
7/29/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-14 (Water) Enthalpy Analytical									
TDS by 2540C									
TDS	1200	10	10	mg/L	1	BIH0160	08/05/2025	08/05/2025	
Origins Laboratory									
Chloride and Sulfate By EPA 300.0									
Chloride	289		31.2	mg/L	125	B5H0104	08/01/2025	08/01/2025	
Sulfate	365		31.2	"	"	"	"	"	

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Jeremy Espinoza
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 Project: KMG - Herman L 32-14 Wellhead

GW-NATIVE-BG15@3'
7/29/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0664-15 (Water) Enthalpy Analytical									
TDS by 2540C									
TDS	2390	10	10	mg/L	1	BIH0160	08/05/2025	08/05/2025	
Origins Laboratory									
Chloride and Sulfate By EPA 300.0									
Chloride	497		31.2	mg/L	125	B5H0104	08/01/2025	08/01/2025	
Sulfate	1030		31.2	"	"	"	"	"	

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 Project: KMG - Herman L 32-14 Wellhead

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5G3126 - DTPA Sorbitol Preparation										
Blank (B5G3126-BLK1)					Prepared: 07/31/2025 Analyzed: 08/04/2025					
Boron	ND	0.100	mg/L							U
Duplicate (B5G3126-DUP1)		Source: E5G0662-01				Prepared: 07/31/2025 Analyzed: 08/04/2025				
Boron	0.321	0.0997	mg/L		0.309			3.75	50	
Batch B5G3127 - Saturated Paste Metals										
Blank (B5G3127-BLK1)					Prepared: 07/31/2025 Analyzed: 08/04/2025					
Calcium PPM	ND	10.0	mg/L							U
SAR	ND	0.0100	SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U
Duplicate (B5G3127-DUP1)		Source: E5G0662-01				Prepared: 07/31/2025 Analyzed: 08/04/2025				
Calcium PPM	42.0	10.0	mg/L		38.1			9.81	50	
SAR	ND	0.0100	SAR		2.20				200	U
Magnesium PPM	13.0	10.0	mg/L		11.3			13.8	50	
Sodium PPM	65.4	10.0	"		60.2			8.30	50	
Batch B5H0104 - Filter .45um non acidified										
Blank (B5H0104-BLK1)					Prepared: 08/01/2025 Analyzed: 08/01/2025					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
LCS (B5H0104-BS1)		Prepared: 08/01/2025 Analyzed: 08/01/2025								
Chloride	3.86	0.250	mg/L	4.00		96.6	90-110			
Sulfate	3.82	0.250	"	4.00		95.5	90-110			

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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171096
 Project: KMG - Herman L 32-14 Wellhead

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 B5H0104 - Filter .45um non acidified

Matrix Spike (B5H0104-MS1)

Source: E5G0661-01

Prepared: 08/01/2025 Analyzed: 08/06/2025

Chloride	2360		mg/L	500	1800	112	90-110			QM-07
Sulfate	5010		"	500	4700	61.4	90-110			QM-07

Matrix Spike Dup (B5H0104-MSD1)

Source: E5G0661-01

Prepared: 08/01/2025 Analyzed: 08/06/2025

Chloride	2310		mg/L	500	1800	101	90-110	2.39	5	
Sulfate	4920		"	500	4700	44.3	90-110	1.71	5	QM-07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5G3129 - EPA 3050B

Prepared: 07/31/2025 Analyzed: 08/05/2025

Blank (B5G3129-BLK1)

Arsenic	ND	0.265	mg/kg							U
Barium	ND	74.9	"							U
Cadmium	ND	0.347	"							U
Copper	ND	42.0	"							U
Lead	ND	12.8	"							U
Nickel	ND	23.7	"							U
Selenium	ND	0.237	"							U
Silver	ND	0.731	"							U
Zinc	ND	338	"							U

LCS (B5G3129-BS1)

Prepared: 07/31/2025 Analyzed: 08/05/2025

Arsenic	4.16	0.269	mg/kg	4.63		89.9	80-120			
Barium	433	76.0	"	463		93.6	80-120			
Cadmium	4.60	0.352	"	4.63		99.2	80-120			
Copper	43.6	42.6	"	46.3		94.1	80-120			
Lead	4.60	13.0	"	4.63		99.2	80-120			U
Nickel	4.42	24.1	"	4.63		95.5	80-120			U
Selenium	4.50	0.241	"	4.63		97.2	80-120			
Silver	4.47	0.741	"	4.63		96.5	80-120			
Zinc	45.0	343	"	46.3		97.2	80-120			U

Matrix Spike (B5G3129-MS1)

Source: E5G0642-01

Prepared: 07/31/2025 Analyzed: 08/05/2025

Arsenic	7.77	0.272	mg/kg	4.69	2.15	120	75-125			
Barium	520	76.9	"	469	42.5	102	75-125			
Cadmium	5.12	0.356	"	4.69	0.0457	108	75-125			
Copper	51.7	43.2	"	46.9	2.25	106	75-125			
Lead	8.59	13.1	"	4.69	3.42	110	75-125			U

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5G3129 - EPA 3050B

Matrix Spike (B5G3129-MS1)

Source: E5G0642-01

Prepared: 07/31/2025 Analyzed: 08/05/2025

Nickel	7.20	24.4	mg/kg	4.69	2.25	106	75-125			U
Selenium	5.02	0.244	"	4.69	0.0632	106	75-125			
Silver	4.99	0.750	"	4.69	0.00584	106	75-125			
Zinc	60.8	347	"	46.9	11.4	105	75-125			U

Matrix Spike Dup (B5G3129-MSD1)

Source: E5G0642-01

Prepared: 07/31/2025 Analyzed: 08/05/2025

Arsenic	8.86	0.272	mg/kg	4.69	2.15	143	75-125	13.1	20	QM-07
Barium	503	77.0	"	469	42.5	98.2	75-125	3.33	20	
Cadmium	4.93	0.357	"	4.69	0.0457	104	75-125	3.75	20	
Copper	47.9	43.2	"	46.9	2.25	97.2	75-125	7.71	20	
Lead	8.95	13.1	"	4.69	3.42	118	75-125	4.14	20	U
Nickel	8.28	24.4	"	4.69	2.25	129	75-125	13.9	20	QM-07, U
Selenium	4.82	0.244	"	4.69	0.0632	101	75-125	3.99	20	
Silver	4.75	0.751	"	4.69	0.00584	101	75-125	5.07	20	
Zinc	59.6	347	"	46.9	11.4	103	75-125	2.04	20	U

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Saturated Paste - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5G3128 - Saturated Paste pH/EC

Blank (B5G3128-BLK1)

Prepared: 07/31/2025 Analyzed: 08/02/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5G3128-DUP1)

Source: E5G0662-01

Prepared: 07/31/2025 Analyzed: 08/02/2025

pH	8.28		pH Units		8.30		0.241		25	
Specific Conductance (EC)	0.622	0.00500	mmhos/cm		0.577		7.49		25	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 379022 - EPA 3060A										
BLANK (QC1283581)										
					Prepared: 08/12/2025 Analyzed: 08/14/2025					
Hexavalent Chromium	ND	0.29	mg/Kg				-			ND
LCS (QC1283582)										
					Prepared: 08/12/2025 Analyzed: 08/14/2025					
Hexavalent Chromium	39.39	0.5906	mg/Kg	39.37		100	80-120			
Duplicate (QC1283583)										
					Prepared: 08/12/2025 Analyzed: 08/14/2025					
Hexavalent Chromium	ND	0.2941	mg/Kg		0		-		30	ND
Matrix Spike (QC1283584)										
					Prepared: 08/12/2025 Analyzed: 08/14/2025					
Hexavalent Chromium	33.13	0.5906	mg/Kg	39.37	0	84	70-130			

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**TDS by 2540C - Quality Control
 Enthaipty Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BIH0160 - No Prep Wet Chem

Blank (BIH0160-BLK1)

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

TDS ND 10 mg/L

LCS (BIH0160-BS1)

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

TDS 284 10 mg/L 300 94.7 80-120

Duplicate (BIH0160-DUP1)

Source: 25G3005-02

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

TDS 64 10 mg/L 54 - 16.9 10 P

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Project: KMG - Herman L 32-14 Wellhead

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.
 - P Duplicate analysis does not meet the acceptance criteria for precision
 - ND Not Detected
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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