



Ensolum

April 21, 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 April 03, 2025. This project is associated with Origins project number E5D0107-01.

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

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

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

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

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

Origins Laboratory
303.433.1322
projectmanager@originslab.com



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

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP01@0.5'	E5D0107-01	Soil	April 3, 2025 12:20	04/03/2025 15:47
WP01@0.5'-V	E5D0107-02	Soil	April 3, 2025 12:21	04/03/2025 15:47
NATIVE-BG01@0.5'	E5D0107-03	Soil	April 3, 2025 12:30	04/03/2025 15:47
NATIVE-BG02@0.5'	E5D0107-04	Soil	April 3, 2025 12:34	04/03/2025 15:47
NATIVE-BG03@0.5'	E5D0107-05	Soil	April 3, 2025 12:38	04/03/2025 15:47
NATIVE-BG04@0.5'	E5D0107-06	Soil	April 3, 2025 12:42	04/03/2025 15:47

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Christian Iglesias For Jen Pellegrini, Project Manager

ORIGINS LABORATORY

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

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

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

Sample Receipt Checklist

Origins Work Order: E5D0107 Client: Ensolum
Client Project ID: Herman L 32-14 Wellhead
Checklist Completed by: JAR/NB Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 4/03/25 Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
Cooler Number/Temperature: 1 / 20 °C / _____ °C / _____ °C (Describe) _____ °C
Thermometer ID: 7007

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with Na ₂ CO ₃ -NaOH (2% c/w 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) AD Date/Time Reviewed 4/4/25

Origins Laboratory



Christian Iglesias For Jen Pellegrini, Project Manager

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

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

WP01@0.5'
4/3/2025 12:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0107-01 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.143	0.358	mg/kg dry	1	2781073	04/15/2025	04/17/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.65		0.0999	mg/L	1	B5D0405	04/04/2025	04/06/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D0401	04/04/2025	04/04/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	94.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	0.00246		0.00200	mg/kg	1	B5D0425	04/04/2025	04/04/2025	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	0.00432		0.00200	"	"	"	"	"	
Xylenes, total	0.00474		0.00200	"	"	"	"	"	

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

WP01@0.5'
4/3/2025 12:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0107-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D0425	04/04/2025	04/04/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	124 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	8.70		0.499	meq/L	10	[CALC]	04/04/2025	04/09/2025	
Magnesium	9.65		0.823	"	"	"	"	"	
Sodium	96.8		4.35	"	100	"	"	04/10/2025	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
2-Methylnaphthalene	0.004		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.005		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua

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WP01@0.5'
4/3/2025 12:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0107-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	97.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.6 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.40			pH Units	1	B5D0446	04/04/2025	04/09/2025	
SAR by 20B Saturated Paste									
SAR	32.0		0.0100	SAR	1	B5D0441	04/04/2025	04/09/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	11.3		0.00500	mmhos/cm	1	B5D0446	04/04/2025	04/09/2025	

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Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

WP01@0.5'
4/3/2025 12:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0107-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.85		0.286	mg/kg	10	B5D0417	04/04/2025	04/06/2025	
Barium	43.2		9.87	"	"	"	"	"	
Cadmium	0.121		0.0987	"	"	"	"	"	
Copper	13.2		9.87	"	"	"	"	"	
Lead	9.23		0.987	"	"	"	"	"	
Nickel	4.79		0.987	"	"	"	"	"	
Selenium	ND		0.257	"	"	"	"	"	Ua
Silver	ND		0.0987	"	"	"	"	"	Ua
Zinc	ND		36.5	"	"	"	"	"	Ua

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Project Number: 09A14171096
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WP01@0.5'-V
4/3/2025 12:21:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0107-02 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	8.13			pH Units	1	B5D0741	04/07/2025	04/14/2025	

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

NATIVE-BG01@0.5'
4/3/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0107-03 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.183	0.457	mg/kg dry	1	2781073	04/15/2025	04/17/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.12		0.0995	mg/L	1	B5D0405	04/04/2025	04/06/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	15.9		0.499	meq/L	10	[CALC]	04/04/2025	04/09/2025	
Magnesium	7.69		0.823	"	"	"	"	"	
Sodium	9.49		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	6.91			pH Units	1	B5D0446	04/04/2025	04/09/2025	
SAR by 20B Saturated Paste									
SAR	2.76		0.0100	SAR	1	B5D0441	04/04/2025	04/09/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	3.62		0.00500	mmhos/cm	1	B5D0446	04/04/2025	04/09/2025	

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

NATIVE-BG01@0.5'
4/3/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0107-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.35		0.285	mg/kg	10	B5D0417	04/04/2025	04/06/2025	
Barium	69.6		9.84	"	"	"	"	"	
Cadmium	0.263		0.0984	"	"	"	"	"	
Copper	ND		9.84	"	"	"	"	"	Ua
Lead	9.49		0.984	"	"	"	"	"	
Nickel	6.35		0.984	"	"	"	"	"	
Selenium	0.317		0.256	"	"	"	"	"	
Silver	ND		0.0984	"	"	"	"	"	Ua
Zinc	49.7		36.4	"	"	"	"	"	

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Christian Iglesias For Jen Pellegrini, Project Manager

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

NATIVE-BG02@0.5'
4/3/2025 12:34:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0107-04 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.210	0.526	mg/kg dry	1	2781073	04/15/2025	04/17/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.417		0.0997	mg/L	1	B5D0405	04/04/2025	04/06/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	ND		0.499	meq/L	10	[CALC]	04/04/2025	04/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.505		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	5.57			pH Units	1	B5D0446	04/04/2025	04/09/2025	
SAR by 20B Saturated Paste									
SAR	0.749		0.0100	SAR	1	B5D0441	04/04/2025	04/09/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.246		0.00500	mmhos/cm	1	B5D0446	04/04/2025	04/09/2025	

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

NATIVE-BG02@0.5'
4/3/2025 12:34:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0107-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.89		0.273	mg/kg	10	B5D0417	04/04/2025	04/06/2025	
Barium	69.4		9.41	"	"	"	"	"	
Cadmium	0.423		0.0941	"	"	"	"	"	
Copper	10.5		9.41	"	"	"	"	"	
Lead	15.4		0.941	"	"	"	"	"	
Nickel	4.70		0.941	"	"	"	"	"	
Selenium	0.261		0.245	"	"	"	"	"	
Silver	ND		0.0941	"	"	"	"	"	Ua
Zinc	57.9		34.8	"	"	"	"	"	

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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

NATIVE-BG03@0.5'
4/3/2025 12:38:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0107-05 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.164	0.410	mg/kg dry	1	2781073	04/15/2025	04/17/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	4.05		0.0999	mg/L	1	B5D0405	04/04/2025	04/06/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	19.7		0.499	meq/L	10	[CALC]	04/04/2025	04/09/2025	
Magnesium	29.0		0.823	"	"	"	"	"	
Sodium	207		4.35	"	100	"	"	04/10/2025	
pH in Soil by 9045D									
pH	8.35			pH Units	1	B5D0446	04/04/2025	04/09/2025	
SAR by 20B Saturated Paste									
SAR	42.0		0.0100	SAR	1	B5D0441	04/04/2025	04/09/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	22.5		0.00500	mmhos/cm	1	B5D0446	04/04/2025	04/09/2025	

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

NATIVE-BG03@0.5'
4/3/2025 12:38:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0107-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.77		0.270	mg/kg	10	B5D0417	04/04/2025	04/06/2025	
Barium	87.7		9.32	"	"	"	"	"	
Cadmium	0.352		0.0932	"	"	"	"	"	
Copper	11.6		9.32	"	"	"	"	"	
Lead	16.0		0.932	"	"	"	"	"	
Nickel	7.16		0.932	"	"	"	"	"	
Selenium	0.329		0.242	"	"	"	"	"	
Silver	ND		0.0932	"	"	"	"	"	Ua
Zinc	45.3		34.5	"	"	"	"	"	

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Christian Iglesias For Jen Pellegrini, Project Manager

Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

NATIVE-BG04@0.5'
4/3/2025 12:42:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0107-06 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.157	0.392	mg/kg dry	1	2781073	04/15/2025	04/17/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	6.05		0.100	mg/L	1	B5D0406	04/04/2025	04/06/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	26.9		0.499	meq/L	10	[CALC]	04/04/2025	04/09/2025	
Magnesium	58.2		0.823	"	"	"	"	"	
Sodium	291		4.35	"	100	"	"	04/10/2025	
pH in Soil by 9045D									
pH	8.22			pH Units	1	B5D0446	04/04/2025	04/09/2025	
SAR by 20B Saturated Paste									
SAR	44.6		0.0100	SAR	1	B5D0441	04/04/2025	04/09/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	29.1		0.00500	mmhos/cm	1	B5D0446	04/04/2025	04/09/2025	

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Christian Iglesias For Jen Pellegrini, Project Manager

Ensolom
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

NATIVE-BG04@0.5'
4/3/2025 12:42:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0107-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.36		0.266	mg/kg	10	B5D0417	04/04/2025	04/06/2025	
Barium	92.0		9.18	"	"	"	"	"	
Cadmium	0.343		0.0918	"	"	"	"	"	
Copper	11.8		9.18	"	"	"	"	"	
Lead	14.8		0.918	"	"	"	"	"	
Nickel	8.63		0.918	"	"	"	"	"	
Selenium	0.555		0.239	"	"	"	"	"	
Silver	ND		0.0918	"	"	"	"	"	Ua
Zinc	53.7		34.0	"	"	"	"	"	

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Christian Iglesias For Jen Pellegrini, Project Manager

Ensolum
11049 W 44th Avenue, Suite 103
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
Batch B5D0405 - DTPA Sorbitol Preparation										
Blank (B5D0405-BLK1)					Prepared: 04/04/2025 Analyzed: 04/06/2025					
Boron	ND	0.100	mg/L							Ua
Duplicate (B5D0405-DUP1)		Source: E5D0099-01				Prepared: 04/04/2025 Analyzed: 04/06/2025				
Boron	0.133	0.0999	mg/L		0.152			13.6	50	
Batch B5D0406 - DTPA Sorbitol Preparation										
Blank (B5D0406-BLK1)					Prepared: 04/04/2025 Analyzed: 04/06/2025					
Boron	ND	0.100	mg/L							Ua
Duplicate (B5D0406-DUP1)		Source: E5D0107-06				Prepared: 04/04/2025 Analyzed: 04/06/2025				
Boron	6.05	0.100	mg/L		6.05			0.00661	50	
Batch B5D0441 - Saturated Paste Metals										
Blank (B5D0441-BLK1)					Prepared: 04/04/2025 Analyzed: 04/09/2025					
Calcium PPM	ND	10.0	mg/L							Ua
SAR	ND	0.0100	SAR							Ua
Magnesium PPM	ND	10.0	mg/L							Ua
Sodium PPM	ND	10.0	"							Ua
Duplicate (B5D0441-DUP1)		Source: E5D0090-03				Prepared: 04/04/2025 Analyzed: 04/09/2025				
SAR	ND	0.0100	SAR		1.19				200	Ua
Calcium PPM	51.5	10.0	mg/L		41.0			22.9	50	
Magnesium PPM	5.94	10.0	"		5.01			17.0	50	Ua
Sodium PPM	29.8	10.0	"		30.4			2.09	50	

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

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

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 B5D0432 - EPA 3580

Blank (B5D0432-BLK1)

Prepared: 04/04/2025 Analyzed: 04/04/2025

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	200		"	200		98.6	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.3	60-130			

LCS (B5D0432-BS1)

Prepared: 04/04/2025 Analyzed: 04/04/2025

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200		92.4	70-130			
2-Methylnaphthalene	0.184	0.002	"	0.200		92.2	70-130			
Acenaphthene	0.190	0.020	"	0.200		94.9	70-130			
Anthracene	0.192	0.020	"	0.200		95.8	70-130			
Benzo (a) anthracene	0.209	0.005	"	0.200		104	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200		98.5	70-130			

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

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

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 B5D0432 - EPA 3580

LCS (B5D0432-BS1)

Prepared: 04/04/2025 Analyzed: 04/04/2025

Benzo (b) fluoranthene	0.174	0.020	mg/kg	0.200		86.8	70-130			
Benzo (k) fluoranthene	0.197	0.020	"	0.200		98.7	70-130			
Chrysene	0.196	0.020	"	0.200		98.1	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		106	70-130			
Fluoranthene	0.201	0.020	"	0.200		101	70-130			
Fluorene	0.195	0.020	"	0.200		97.7	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130			
Naphthalene	0.190	0.002	"	0.200		95.1	70-130			
Pyrene	0.205	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.7	60-130			

Matrix Spike (B5D0432-MS1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	0.002	99.9	70-130			
2-Methylnaphthalene	0.209	0.002	"	0.200	0.004	102	70-130			
Acenaphthene	0.202	0.020	"	0.200	0.0007	101	70-130			
Anthracene	0.197	0.020	"	0.200	0.004	96.3	70-130			
Benzo (a) anthracene	0.233	0.005	"	0.200	0.005	114	70-130			
Benzo (a) pyrene	0.212	0.020	"	0.200	0.007	103	70-130			
Benzo (b) fluoranthene	0.208	0.020	"	0.200	0.006	101	70-130			
Benzo (k) fluoranthene	0.219	0.020	"	0.200	0.006	107	70-130			
Chrysene	0.222	0.020	"	0.200	0.008	107	70-130			
Dibenz (a,h) anthracene	0.231	0.020	"	0.200	0.004	113	70-130			
Fluoranthene	0.215	0.020	"	0.200	0.005	105	70-130			
Fluorene	0.203	0.020	"	0.200	0.001	101	70-130			

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

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

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 B5D0432 - EPA 3580

Matrix Spike (B5D0432-MS1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

Indeno (1,2,3-cd) pyrene	0.225	0.020	mg/kg	0.200	0.005	110	70-130			
Naphthalene	0.205	0.002	"	0.200	0.002	102	70-130			
Pyrene	0.221	0.020	"	0.200	0.006	108	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.6	60-130			

Matrix Spike Dup (B5D0432-MSD1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	0.002	99.7	70-130	0.201	20	
2-Methylnaphthalene	0.206	0.002	"	0.200	0.004	101	70-130	1.61	20	
Acenaphthene	0.200	0.020	"	0.200	0.0007	99.8	70-130	0.921	20	
Anthracene	0.214	0.020	"	0.200	0.004	105	70-130	8.06	20	
Benzo (a) anthracene	0.231	0.005	"	0.200	0.005	113	70-130	1.09	20	
Benzo (a) pyrene	0.208	0.020	"	0.200	0.007	100	70-130	2.23	20	
Benzo (b) fluoranthene	0.204	0.020	"	0.200	0.006	99.4	70-130	1.80	20	
Benzo (k) fluoranthene	0.211	0.020	"	0.200	0.006	103	70-130	3.78	20	
Chrysene	0.220	0.020	"	0.200	0.008	106	70-130	0.811	20	
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	0.004	111	70-130	2.30	20	
Fluoranthene	0.220	0.020	"	0.200	0.005	108	70-130	2.60	20	
Fluorene	0.204	0.020	"	0.200	0.001	101	70-130	0.354	20	
Indeno (1,2,3-cd) pyrene	0.225	0.020	"	0.200	0.005	110	70-130	0.0509	20	
Naphthalene	0.206	0.002	"	0.200	0.002	102	70-130	0.242	20	
Pyrene	0.219	0.020	"	0.200	0.006	107	70-130	0.859	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.7	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			

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Christian Iglesias For Jen Pellegrini, Project Manager

Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

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 B5D0432 - EPA 3580

Matrix Spike Dup (B5D0432-MSD1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

Surrogate: Benzo (a) pyrene-d12	190		ug/kg	200		96.6	60-130			
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Christian Iglesias For Jen Pellegrini, Project Manager

Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A14171096
Project: KMG - Herman L 32-14 Wellhead

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 B5D0401 - EPA 3550B

Blank (B5D0401-BLK1)

Prepared: 04/04/2025 Analyzed: 04/04/2025

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

LCS (B5D0401-BS1)

Prepared: 04/04/2025 Analyzed: 04/04/2025

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	70-130			
Residual Range Organics (C28-C40)	1190	200	"	1000		119	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

Matrix Spike (B5D0401-MS1)

Source: E5D0073-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

Matrix Spike Dup (B5D0401-MSD1)

Source: E5D0073-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

Diesel (C10-C28)	979	50.0	mg/kg	1000	ND	97.9	70-130	7.31	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	6.50	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Christian Iglesias For Jen Pellegrini, Project Manager

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

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

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 B5D0417 - EPA 3050B

Blank (B5D0417-BLK1)

Prepared: 04/04/2025 Analyzed: 04/06/2025

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Silver	ND	0.100	"							Ua
Zinc	ND	37.0	"							Ua

LCS (B5D0417-BS1)

Prepared: 04/04/2025 Analyzed: 04/06/2025

Arsenic	5.70	0.290	mg/kg	5.00		114	80-120			
Barium	561	10.0	"	500		112	80-120			
Cadmium	5.52	0.100	"	5.00		110	80-120			
Copper	53.0	10.0	"	50.0		106	80-120			
Lead	5.56	1.00	"	5.00		111	80-120			
Nickel	5.67	1.00	"	5.00		113	80-120			
Selenium	5.49	0.260	"	5.00		110	80-120			
Silver	5.71	0.100	"	5.00		114	80-120			
Zinc	53.6	37.0	"	50.0		107	80-120			

Matrix Spike (B5D0417-MS1)

Source: E5D0111-01

Prepared: 04/04/2025 Analyzed: 04/06/2025

Arsenic	6.59	0.249	mg/kg	4.30	2.28	100	75-125			
Barium	517	8.60	"	430	58.0	107	75-125			
Cadmium	4.83	0.0860	"	4.30	0.126	109	75-125			
Copper	50.8	8.60	"	43.0	6.26	104	75-125			
Lead	13.2	0.860	"	4.30	8.25	115	75-125			

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

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

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 B5D0417 - EPA 3050B

Matrix Spike (B5D0417-MS1)

Source: E5D0111-01

Prepared: 04/04/2025 Analyzed: 04/06/2025

Nickel	9.58	0.860	mg/kg	4.30	5.46	95.9	75-125			
Selenium	4.56	0.224	"	4.30	0.160	102	75-125			
Silver	4.61	0.0860	"	4.30	0.0459	106	75-125			
Zinc	70.0	31.8	"	43.0	27.5	98.7	75-125			

Matrix Spike Dup (B5D0417-MSD1)

Source: E5D0111-01

Prepared: 04/04/2025 Analyzed: 04/06/2025

Arsenic	7.43	0.282	mg/kg	4.86	2.28	106	75-125	12.0	20	
Barium	587	9.71	"	486	58.0	109	75-125	12.6	20	
Cadmium	5.11	0.0971	"	4.86	0.126	103	75-125	5.65	20	
Copper	54.1	9.71	"	48.6	6.26	98.4	75-125	6.21	20	
Lead	12.5	0.971	"	4.86	8.25	86.7	75-125	5.77	20	
Nickel	10.4	0.971	"	4.86	5.46	102	75-125	8.49	20	
Selenium	5.16	0.253	"	4.86	0.160	103	75-125	12.3	20	
Silver	5.14	0.0971	"	4.86	0.0459	105	75-125	10.8	20	
Zinc	75.9	35.9	"	48.6	27.5	99.7	75-125	8.15	20	

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Christian Iglesias For Jen Pellegrini, Project Manager



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

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

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 B5D0446 - Saturated Paste pH/EC

Blank (B5D0446-BLK1)

Prepared: 04/04/2025 Analyzed: 04/09/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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Duplicate (B5D0446-DUP1)

Source: E5D0090-03

Prepared: 04/04/2025 Analyzed: 04/09/2025

Specific Conductance (EC)	0.321	0.00500	mmhos/cm		0.350			8.88	25	
pH	8.27		pH Units		8.29			0.242	25	

Batch B5D0741 - Saturated Paste pH/EC

Duplicate (B5D0741-DUP1)

Source: E5D0001-21

Prepared: 04/07/2025 Analyzed: 04/14/2025

pH	7.63		pH Units		7.89			3.35	25	
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Christian Iglesias For Jen Pellegrini, Project Manager

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

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

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 B5D0425 - EPA 5030 (soil)

Blank (B5D0425-BLK1)

Prepared: 04/04/2025 Analyzed: 04/04/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

LCS (B5D0425-BS1)

Prepared: 04/04/2025 Analyzed: 04/04/2025

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.0868	0.00200	"	0.100		86.8	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Matrix Spike (B5D0425-MS1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	0.00246	111	70-130			
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Origins Laboratory



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Christian Iglesias For Jen Pellegrini, Project Manager

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

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

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 B5D0425 - EPA 5030 (soil)

Matrix Spike (B5D0425-MS1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

1,3,5-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	0.00106	113	70-130			
Benzene	0.0888	0.00200	"	0.100	ND	88.8	70-130			
Ethylbenzene	0.118	0.00200	"	0.100	0.000520	118	70-130			
Naphthalene	0.0789	0.00380	"	0.100	ND	78.9	70-130			
Toluene	0.106	0.00200	"	0.100	0.00432	101	70-130			
o-Xylene	0.120	0.00200	"	0.100	0.00172	118	70-130			
m,p-Xylene	0.244	0.00400	"	0.200	0.00474	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Matrix Spike Dup (B5D0425-MSD1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

1,2,4-Trimethylbenzene	0.0986	0.00200	mg/kg	0.100	0.00246	96.1	70-130	14.0	20	
1,3,5-Trimethylbenzene	0.0974	0.00200	"	0.100	0.00106	96.3	70-130	15.5	20	
Benzene	0.0851	0.00200	"	0.100	ND	85.1	70-130	4.30	20	
Ethylbenzene	0.101	0.00200	"	0.100	0.000520	100	70-130	15.7	20	
Naphthalene	0.0857	0.00380	"	0.100	ND	85.7	70-130	8.26	20	
Toluene	0.0992	0.00200	"	0.100	0.00432	94.9	70-130	6.30	20	
o-Xylene	0.106	0.00200	"	0.100	0.00172	104	70-130	12.3	20	
m,p-Xylene	0.212	0.00400	"	0.200	0.00474	103	70-130	14.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory



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

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

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2781073 - SW846 3060A

BLANK (1206069474-BLK)

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	ND	0.368	mg/kg				-			U
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LCS (1206069475-BKS)

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	3.82	0.385	mg/kg	3.85		99.3	80-120			
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DUP (1206069476 D)

Source: 717877001

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	ND	0.402	mg/kg dry		<0.161		0-50	N/A	50	U
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MS (1206069477 S)

Source: 717877001

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	2.62	0.325	mg/kg dry	3.25	<0.130	80.6	75-125			
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DUP (1206069478 D)

Source: 717883001

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	ND	0.423	mg/kg dry		<0.169		0-50	N/A	50	U
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MS (1206069479 S)

Source: 717883001

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	3.15	0.438	mg/kg dry	4.38	<0.175	71.9	75-125			
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ILCS (1206069480-ILCS)

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	7.21	0.341	mg/kg	7.02		103	80-120			
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Christian Iglesias For Jen Pellegrini, Project Manager

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

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

Notes and Definitions

- Ua Sample is Non-Detect.
 - U Result not detected above the detection limit
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory

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Christian Iglesias For Jen Pellegrini, Project Manager