



Ensolum

April 09, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Boyle St 8-16 Wellhead

Project Number - [none]

Attached are your analytical results for KMG - Boyle St 8-16 Wellhead received by Origins Laboratory March 05, 2025. This project is associated with Origins project number E5C0167-01.

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



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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL02(8-16)@4'	E5C0167-01	Soil	March 5, 2025 13:15	03/05/2025 15:22
FL02(8-16)@4'-V	E5C0167-02	Soil	March 5, 2025 13:17	03/05/2025 15:22

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Ensolum
11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 Wellhead

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

Sample Receipt Checklist

Origins Work Order: ESCAL67 Client: Ensolum
Client Project ID: Boyle St 8-16

Checklist Completed by: JAR/sem Shipped Via: HD
Date/time completed: 3/06/25 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(es) Received: (Check all that apply): 9 Soil/Solid Water Other:
Cooler Number/Temperature: 1, 27.c (Describe)
Thermometer ID: T007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	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			
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 NaOH > NaOH > 2% 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) AX

3/7/25
Date/Time Reviewed

Origins Laboratory



Christian Iglesias For Jen Pellegrini, Project Manager

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Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 Wellhead

FL02(8-16)\@4'
3/5/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0167-01 (Soil) Enthalpy Analytical									
Total Metals by SW7199									
Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BID0113	04/02/2025	04/05/2025	
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.116		0.101	mg/L	1	B5C0706	03/07/2025	03/10/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C1003	03/10/2025	03/11/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	54.3 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1054	03/10/2025	03/12/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

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Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 Wellhead

FL02(8-16)\@4'
3/5/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0167-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5C1054	03/10/2025	03/12/2025	U
Surrogate: 1,2-Dichloroethane-d4	118 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	03/07/2025	03/12/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.82		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5C0724	03/07/2025	03/15/2025	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

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Project Number: [none]
Project: KMG - Boyle St 8-16 Wellhead

FL02(8-16)\@4'
3/5/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0167-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND	0.020	mg/kg	1	B5C0724	03/07/2025	03/15/2025	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	106 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	112 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	87.7 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.00	pH Units	1	B5C0720	03/07/2025	03/11/2025
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SAR by 20B Saturated Paste

SAR	4.83	0.0100	SAR	1	B5C0715	03/07/2025	03/12/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.364	0.00500	mmhos/cm	1	B5C0720	03/07/2025	03/11/2025
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Project: KMG - Boyle St 8-16 Wellhead

FL02(8-16)\@4'
3/5/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0167-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.55		0.274	mg/kg	10	B5C0637	03/06/2025	03/07/2025	
Barium	66.9		9.43	"	"	"	"	"	
Cadmium	ND		0.0943	"	"	"	"	"	U
Copper	ND		9.43	"	"	"	"	"	U
Lead	6.26		0.943	"	"	"	"	"	
Nickel	7.41		0.943	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	U
Silver	ND		0.0943	"	"	"	"	"	U
Zinc	ND		34.9	"	"	"	"	"	U

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FL02(8-16)\@4'-V
3/5/2025 1:17:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0167-02 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	7.89			pH Units	1	B5C0730	03/07/2025	03/10/2025	

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Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 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 B5C0706 - DTPA Sorbitol Preparation

Blank (B5C0706-BLK1)

Prepared: 03/07/2025 Analyzed: 03/10/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5C0706-DUP1)

Source: E5C0153-06

Prepared: 03/07/2025 Analyzed: 03/10/2025

Boron	0.252	0.101	mg/L		0.227			10.3	50	
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Batch B5C0715 - Saturated Paste Metals

Blank (B5C0715-BLK1)

Prepared: 03/07/2025 Analyzed: 03/12/2025

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 (B5C0715-DUP1)

Source: E5C0163-02

Prepared: 03/07/2025 Analyzed: 03/12/2025

SAR	ND	0.0100	SAR		0.0472				200	U
Calcium PPM	22.9	10.0	mg/L		24.3			5.84	50	
Magnesium PPM	5.96	10.0	"		6.35			6.34	50	U
Sodium PPM	1.01	10.0	"		1.01			0.00	50	U

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Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 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 B5C0724 - EPA 3580

Blank (B5C0724-BLK1)

Prepared: 03/07/2025 Analyzed: 03/15/2025

1-Methylnaphthalene	ND	0.002	mg/kg							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 (g,h,i) perylene	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
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		98.4	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

LCS (B5C0724-BS1)

Prepared: 03/07/2025 Analyzed: 03/15/2025

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.3	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.4	70-130			
Acenaphthene	0.192	0.020	"	0.200		95.8	70-130			
Anthracene	0.183	0.020	"	0.200		91.4	70-130			

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Project: KMG - Boyle St 8-16 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 B5C0724 - EPA 3580

LCS (B5C0724-BS1)

Prepared: 03/07/2025 Analyzed: 03/15/2025

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.4	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200		95.9	70-130			
Benzo (b) fluoranthene	0.179	0.020	"	0.200		89.6	70-130			
Benzo (g,h,i) perylene	0.185	0.020	"	0.200		92.3	70-130			
Benzo (k) fluoranthene	0.163	0.020	"	0.200		81.7	70-130			
Chrysene	0.181	0.020	"	0.200		90.6	70-130			
Dibenz (a,h) anthracene	0.180	0.020	"	0.200		90.1	70-130			
Fluoranthene	0.194	0.020	"	0.200		97.0	70-130			
Fluorene	0.192	0.020	"	0.200		95.8	70-130			
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200		109	70-130			
Naphthalene	0.193	0.002	"	0.200		96.3	70-130			
Phenanthrene	0.199	0.020	"	0.200		99.7	70-130			
Pyrene	0.214	0.020	"	0.200		107	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		98.4	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B5C0724-MS1)

Source: E5C0161-01

Prepared: 03/07/2025 Analyzed: 03/15/2025

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	ND	101	70-130			
2-Methylnaphthalene	0.203	0.002	"	0.200	0.0009	101	70-130			
Acenaphthene	0.206	0.020	"	0.200	ND	103	70-130			
Anthracene	0.213	0.020	"	0.200	ND	107	70-130			
Benzo (a) anthracene	0.217	0.005	"	0.200	0.002	108	70-130			
Benzo (a) pyrene	0.213	0.020	"	0.200	0.001	106	70-130			
Benzo (b) fluoranthene	0.238	0.020	"	0.200	0.001	118	70-130			
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	0.002	101	70-130			

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Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 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 B5C0724 - EPA 3580

Matrix Spike (B5C0724-MS1)

Source: E5C0161-01

Prepared: 03/07/2025 Analyzed: 03/15/2025

Benzo (k) fluoranthene	0.209	0.020	mg/kg	0.200	0.001	104	70-130			
Chrysene	0.193	0.020	"	0.200	0.001	95.7	70-130			
Dibenz (a,h) anthracene	0.240	0.020	"	0.200	0.002	119	70-130			
Fluoranthene	0.203	0.020	"	0.200	ND	101	70-130			
Fluorene	0.209	0.020	"	0.200	ND	105	70-130			
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	0.002	114	70-130			
Naphthalene	0.239	0.002	"	0.200	ND	120	70-130			
Phenanthrene	0.207	0.020	"	0.200	ND	104	70-130			
Pyrene	0.192	0.020	"	0.200	ND	95.8	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	170		"	200		87.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B5C0724-MSD1)

Source: E5C0161-01

Prepared: 03/07/2025 Analyzed: 03/15/2025

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	103	70-130	2.16	20	
2-Methylnaphthalene	0.208	0.002	"	0.200	0.0009	104	70-130	2.66	20	
Acenaphthene	0.214	0.020	"	0.200	ND	107	70-130	3.69	20	
Anthracene	0.223	0.020	"	0.200	ND	111	70-130	4.34	20	
Benzo (a) anthracene	0.224	0.005	"	0.200	0.002	111	70-130	2.92	20	
Benzo (a) pyrene	0.221	0.020	"	0.200	0.001	110	70-130	3.92	20	
Benzo (b) fluoranthene	0.249	0.020	"	0.200	0.001	124	70-130	4.61	20	
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	0.002	103	70-130	2.31	20	
Benzo (k) fluoranthene	0.232	0.020	"	0.200	0.001	115	70-130	10.3	20	
Chrysene	0.196	0.020	"	0.200	0.001	97.4	70-130	1.69	20	
Dibenz (a,h) anthracene	0.251	0.020	"	0.200	0.002	124	70-130	4.45	20	
Fluoranthene	0.207	0.020	"	0.200	ND	103	70-130	1.84	20	

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Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 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 B5C0724 - EPA 3580

Matrix Spike Dup (B5C0724-MSD1)

Source: E5C0161-01

Prepared: 03/07/2025 Analyzed: 03/15/2025

Fluorene	0.215	0.020	mg/kg	0.200	ND	108	70-130	2.98	20	
Indeno (1,2,3-cd) pyrene	0.253	0.020	"	0.200	0.002	125	70-130	9.76	20	
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130	12.2	20	
Phenanthrene	0.217	0.020	"	0.200	ND	108	70-130	4.62	20	
Pyrene	0.195	0.020	"	0.200	ND	97.3	70-130	1.55	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	230		"	200		113	60-130			
Surrogate: Pyrene-d10	170		"	200		86.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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: [none]
Project: KMG - Boyle St 8-16 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
Batch B5C1003 - EPA 3550B										
Blank (B5C1003-BLK1)										
					Prepared: 03/10/2025 Analyzed: 03/11/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	14		"	24.9		54.5	50-150			
LCS (B5C1003-BS1)										
					Prepared: 03/10/2025 Analyzed: 03/11/2025					
Diesel (C10-C28)	945	50.0	mg/kg	1000		94.5	70-130			
Residual Range Organics (C28-C40)	905	200	"	1000		90.5	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.6	50-150			
Matrix Spike (B5C1003-MS1)										
		Source: E5C0130-01			Prepared: 03/10/2025 Analyzed: 03/11/2025					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.5	50-150			
Matrix Spike Dup (B5C1003-MSD1)										
		Source: E5C0130-01			Prepared: 03/10/2025 Analyzed: 03/11/2025					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	2.03	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	0.926	35	
Surrogate: o-Terphenyl	45		"	49.8		89.8	50-150			

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 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 B5C0637 - EPA 3050B

Blank (B5C0637-BLK1)

Prepared: 03/06/2025 Analyzed: 03/07/2025

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

LCS (B5C0637-BS1)

Prepared: 03/06/2025 Analyzed: 03/07/2025

Arsenic	5.30	0.290	mg/kg	5.00		106	80-120			
Barium	546	10.0	"	500		109	80-120			
Cadmium	5.31	0.100	"	5.00		106	80-120			
Copper	51.4	10.0	"	50.0		103	80-120			
Lead	5.23	1.00	"	5.00		105	80-120			
Nickel	5.49	1.00	"	5.00		110	80-120			
Selenium	5.60	0.260	"	5.00		112	80-120			
Silver	5.74	0.100	"	5.00		115	80-120			
Zinc	52.6	37.0	"	50.0		105	80-120			

Matrix Spike (B5C0637-MS1)

Source: E5C0151-01

Prepared: 03/06/2025 Analyzed: 03/07/2025

Arsenic	11.9	0.267	mg/kg	4.60	6.81	111	75-125			
Barium	760	9.20	"	460	167	129	75-125			QM-07
Cadmium	4.86	0.0920	"	4.60	0.230	101	75-125			
Copper	64.3	9.20	"	46.0	17.2	102	75-125			
Lead	17.3	0.920	"	4.60	12.9	96.6	75-125			

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 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 B5C0637 - EPA 3050B

Matrix Spike (B5C0637-MS1)

Source: E5C0151-01

Prepared: 03/06/2025 Analyzed: 03/07/2025

Nickel	21.7	0.920	mg/kg	4.60	17.0	103	75-125			
Selenium	5.18	0.239	"	4.60	0.442	103	75-125			
Silver	5.02	0.0920	"	4.60	0.0697	108	75-125			
Zinc	104	34.0	"	46.0	59.0	98.3	75-125			

Matrix Spike Dup (B5C0637-MSD1)

Source: E5C0151-01

Prepared: 03/06/2025 Analyzed: 03/07/2025

Arsenic	11.3	0.250	mg/kg	4.31	6.81	105	75-125	5.23	20	
Barium	622	8.62	"	431	167	106	75-125	19.9	20	
Cadmium	4.63	0.0862	"	4.31	0.230	102	75-125	4.77	20	
Copper	61.4	8.62	"	43.1	17.2	103	75-125	4.53	20	
Lead	16.9	0.862	"	4.31	12.9	92.3	75-125	2.72	20	
Nickel	23.1	0.862	"	4.31	17.0	141	75-125	6.12	20	QM-07
Selenium	4.92	0.224	"	4.31	0.442	104	75-125	5.21	20	
Silver	4.87	0.0862	"	4.31	0.0697	111	75-125	3.18	20	
Zinc	99.0	31.9	"	43.1	59.0	92.8	75-125	5.13	20	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: [none]
 Project: KMG - Boyle St 8-16 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 B5C0720 - Saturated Paste pH/EC

Blank (B5C0720-BLK1)

Prepared: 03/07/2025 Analyzed: 03/11/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5C0720-DUP1)

Source: E5C0163-02

Prepared: 03/07/2025 Analyzed: 03/11/2025

pH	8.16		pH Units		8.19			0.367	25	
Specific Conductance (EC)	0.424	0.00500	mmhos/cm		0.446			5.24	25	

Batch B5C0730 - Saturated Paste pH/EC

Duplicate (B5C0730-DUP1)

Source: E5C0161-02

Prepared: 03/07/2025 Analyzed: 03/10/2025

pH	8.21		pH Units		8.28			0.849	25	
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 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 B5C1054 - EPA 5030 (soil)

Blank (B5C1054-BLK1)

Prepared: 03/10/2025 Analyzed: 03/12/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

LCS (B5C1054-BS1)

Prepared: 03/10/2025 Analyzed: 03/12/2025

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.0978	0.00200	"	0.100		97.8	70-130			
m,p-Xylene	0.205	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

Matrix Spike (B5C1054-MS1)

Source: E5C0131-02

Prepared: 03/10/2025 Analyzed: 03/12/2025

1,2,4-Trimethylbenzene	0.128	0.00200	mg/kg	0.100	ND	128	70-130			
1,3,5-Trimethylbenzene	0.126	0.00200	"	0.100	ND	126	70-130			
Benzene	0.120	0.00200	"	0.100	ND	120	70-130			

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

Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 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 B5C1054 - EPA 5030 (soil)

Matrix Spike (B5C1054-MS1)

Source: E5C0131-02

Prepared: 03/10/2025 Analyzed: 03/12/2025

Ethylbenzene	0.123	0.00200	mg/kg	0.100	ND	123	70-130			
Toluene	0.121	0.00200	"	0.100	ND	121	70-130			
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130			
m,p-Xylene	0.250	0.00400	"	0.200	ND	125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

Matrix Spike Dup (B5C1054-MSD1)

Source: E5C0131-02

Prepared: 03/10/2025 Analyzed: 03/12/2025

1,2,4-Trimethylbenzene	0.126	0.00200	mg/kg	0.100	ND	126	70-130	1.39	20	
1,3,5-Trimethylbenzene	0.126	0.00200	"	0.100	ND	126	70-130	0.635	20	
Benzene	0.117	0.00200	"	0.100	ND	117	70-130	2.60	20	
Ethylbenzene	0.123	0.00200	"	0.100	ND	123	70-130	0.114	20	
Toluene	0.120	0.00200	"	0.100	ND	120	70-130	1.35	20	
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130	0.0507	20	
m,p-Xylene	0.249	0.00400	"	0.200	ND	125	70-130	0.449	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 Wellhead

Total Metals by SW7199 - Quality Control Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BID0113 - No Prep IC-WET										
Blank (BID0113-BLK1)										
					Prepared: 04/02/2025 Analyzed: 04/04/2025					
Chromium, Hexavalent	ND	0.005	mg/kg				-			
LCS (BID0113-BS1)										
					Prepared: 04/02/2025 Analyzed: 04/04/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		98.3	80-120			
LCS (BID0113-BS2)										
					Prepared: 04/02/2025 Analyzed: 04/04/2025					
Chromium, Hexavalent	7.28	1.00	mg/kg	8.31		87.6	80-120			
Matrix Spike (BID0113-MS1)										
		Source: 25C1716-01			Prepared: 04/02/2025 Analyzed: 04/05/2025					
Chromium, Hexavalent	1.93	0.20	mg/kg	1.98	ND	97.4	75-125			
Matrix Spike Dup (BID0113-MSD1)										
		Source: 25C1716-01			Prepared: 04/02/2025 Analyzed: 04/05/2025					
Chromium, Hexavalent	2.01	0.20	mg/kg	2.01	ND	100	75-125	4.10	20	

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Ensolum
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Jeremy Espinoza
Project Number: [none]
Project: KMG - Boyle St 8-16 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.
 - 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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