



Ensolum

November 13, 2024

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Camp 24-26 Wellhead

Project Number - 09A1417881

Attached are your analytical results for KMG - Camp 24-26 Wellhead received by Origins Laboratory October 28, 2024. This project is associated with Origins project number E410877-01.

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: 09A1417881  
Project: KMG - Camp 24-26 Wellhead

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	E410877-01	Soil	October 28, 2024 14:55	10/28/2024 16:23
WH-RISER@3'	E410877-02	Soil	October 28, 2024 15:00	10/28/2024 16:23

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

Jeremy Espinoza  
 Project Number: 09A1417881  
 Project: KMG - Camp 24-26 Wellhead

Client: Ensolum

Project Manager: Jeremy Espinoza

Key:

Address:

Project Name: Camp 24-26 Wellhead

W=Water

Telephone Number:

Project Number: 09A1417881

GW=Groundwater

Email Address:

KMG Team

Collected By: JH

SW=Surface Water

Invoice/Billing Info:

Initial/Box?

WW=Waste Water

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

L=Liquid


#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
1	Boleg	10-28	1455	3	UNP	X	X	EQ
2	VAISEKES	↑	1500	↓	↓	↓	X	
3								
4								
5								
6								
7								
8								
9								
10								

Relinquished By: Jeremy Espinoza Date: 10/28/2014 Time: 1623  
 Received By: [Signature] Date: 10/28/2014 Time: 1623  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Temp Received - 4.9 Received On Ice?  Yes  No

Turnaround Time  
 SAME DAY  24 Hr  
 48 Hr  72

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

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Project: KMG - Camp 24-26 Wellhead

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: E410877 Client: Ensolum  
 Checklist Completed by: JAD WS Client Project ID: CAMP 24-26  
 Date/time completed: 10/28/24 Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid \_\_\_\_\_ Water \_\_\_\_\_ Other: \_\_\_\_\_  
 Cooler Number/Temperature: 149 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: 1007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JAD

10/28/24  
Date/Time Reviewed

Origins Laboratory

*J. Bynon*

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Jeremy Espinoza  
Project Number: 09A1417881  
Project: KMG - Camp 24-26 Wellhead

**B01@6'**

**10/28/2024 2:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410877-01 (Soil)**

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

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4J2856	10/28/2024	10/31/2024	U
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Surrogate: Fluorene-d10	93.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	86.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	92.6 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.33			pH Units	1	B4J2927	10/29/2024	10/30/2024	
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**WH-RISER@3'**

**10/28/2024 3:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410877-02 (Soil)**

**pH in Soil by 9045D**

pH	8.11			pH Units	1	B4J2927	10/29/2024	10/30/2024	
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**Table 915 metals by EPA 6020B**

Lead	8.08		0.882	mg/kg	10	B4J2859	10/28/2024	10/29/2024	
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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 B4J2859 - EPA 3050B**

**Blank (B4J2859-BLK1)**

Prepared: 10/28/2024 Analyzed: 10/29/2024

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

**LCS (B4J2859-BS1)**

Prepared: 10/28/2024 Analyzed: 10/29/2024

Arsenic	5.34	0.290	mg/kg	5.00		107	80-120			
Barium	524	10.0	"	500		105	80-120			
Cadmium	5.60	0.100	"	5.00		112	80-120			
Copper	55.0	10.0	"	50.0		110	80-120			
Lead	5.38	0.100	"	5.00		108	80-120			
Nickel	5.39	0.100	"	5.00		108	80-120			
Selenium	5.22	0.260	"	5.00		104	80-120			
Silver	5.69	0.100	"	5.00		114	80-120			
Zinc	55.0	37.0	"	50.0		110	80-120			

**Matrix Spike (B4J2859-MS1)**

Source: E410876-01

Prepared: 10/28/2024 Analyzed: 10/29/2024

Arsenic	6.71	0.268	mg/kg	4.63	3.56	68.0	75-125			QM-07
Barium	531	9.25	"	463	78.0	97.9	75-125			
Cadmium	5.24	0.0925	"	4.63	0.220	109	75-125			
Copper	57.4	9.25	"	46.3	7.85	107	75-125			
Lead	7.35	0.0925	"	4.63	7.71	NR	75-125			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 B4J2859 - EPA 3050B**

<b>Matrix Spike (B4J2859-MS1)</b>		<b>Source: E410876-01</b>			<b>Prepared: 10/28/2024 Analyzed: 10/29/2024</b>					
Nickel	6.21	0.0925	mg/kg	4.63	8.66	NR	75-125			QM-07
Selenium	4.76	0.241	"	4.63	0.151	99.6	75-125			
Silver	5.32	0.0925	"	4.63	0.0778	113	75-125			
Zinc	58.8	34.2	"	46.3	43.4	33.3	75-125			QM-07
<b>Matrix Spike Dup (B4J2859-MSD1)</b>		<b>Source: E410876-01</b>			<b>Prepared: 10/28/2024 Analyzed: 10/29/2024</b>					
Arsenic	6.70	0.259	mg/kg	4.46	3.56	70.3	75-125	0.101	20	QM-07
Barium	554	8.92	"	446	78.0	107	75-125	4.25	20	
Cadmium	5.36	0.0892	"	4.46	0.220	115	75-125	2.16	20	
Copper	58.1	8.92	"	44.6	7.85	113	75-125	1.28	20	
Lead	6.88	0.0892	"	4.46	7.71	NR	75-125	6.61	20	QM-07
Nickel	5.67	0.0892	"	4.46	8.66	NR	75-125	9.12	20	QM-07
Selenium	4.72	0.232	"	4.46	0.151	102	75-125	0.874	20	
Silver	5.45	0.0892	"	4.46	0.0778	120	75-125	2.56	20	
Zinc	58.7	33.0	"	44.6	43.4	34.4	75-125	0.0869	20	QM-07

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4J2856 - EPA 3580**

**Blank (B4J2856-BLK1)**

Prepared: 10/28/2024 Analyzed: 10/31/2024

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
<hr/>										
Surrogate: Fluorene-d10	190		ug/kg	200		96.1	60-130			
Surrogate: Anthracene-d10	180		"	200		90.9	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

**LCS (B4J2856-BS1)**

Prepared: 10/28/2024 Analyzed: 10/31/2024

1-Methylnaphthalene	0.228	0.002	mg/kg	0.200		114	70-130			
2-Methylnaphthalene	0.239	0.002	"	0.200		120	70-130			
Acenaphthene	0.243	0.020	"	0.200		122	70-130			
Anthracene	0.213	0.020	"	0.200		107	70-130			

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4J2856 - EPA 3580**

**LCS (B4J2856-BS1)**

Prepared: 10/28/2024 Analyzed: 10/31/2024

Benzo (a) anthracene	0.219	0.005	mg/kg	0.200		109	70-130			
Benzo (a) pyrene	0.224	0.020	"	0.200		112	70-130			
Benzo (b) fluoranthene	0.249	0.020	"	0.200		124	70-130			
Benzo (g,h,i) perylene	0.236	0.020	"	0.200		118	70-130			
Benzo (k) fluoranthene	0.240	0.020	"	0.200		120	70-130			
Chrysene	0.215	0.020	"	0.200		108	70-130			
Dibenz (a,h) anthracene	0.233	0.020	"	0.200		116	70-130			
Fluoranthene	0.234	0.020	"	0.200		117	70-130			
Fluorene	0.242	0.020	"	0.200		121	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130			
Naphthalene	0.234	0.002	"	0.200		117	70-130			
Phenanthrene	0.233	0.020	"	0.200		117	70-130			
Pyrene	0.230	0.020	"	0.200		115	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.7	60-130			
Surrogate: Anthracene-d10	180		"	200		90.4	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

**Matrix Spike (B4J2856-MS1)**

**Source: E410876-14**

Prepared: 10/28/2024 Analyzed: 10/31/2024

1-Methylnaphthalene	0.232	0.002	mg/kg	0.200	ND	116	70-130			
2-Methylnaphthalene	0.241	0.002	"	0.200	ND	121	70-130			
Acenaphthene	0.245	0.020	"	0.200	ND	123	70-130			
Anthracene	0.214	0.020	"	0.200	ND	107	70-130			
Benzo (a) anthracene	0.222	0.005	"	0.200	ND	111	70-130			
Benzo (a) pyrene	0.241	0.020	"	0.200	ND	120	70-130			
Benzo (b) fluoranthene	0.254	0.020	"	0.200	ND	127	70-130			
Benzo (g,h,i) perylene	0.261	0.020	"	0.200	ND	130	70-130			

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4J2856 - EPA 3580**

<b>Matrix Spike (B4J2856-MS1)</b>	<b>Source: E410876-14</b>			<b>Prepared: 10/28/2024 Analyzed: 10/31/2024</b>						
Benzo (k) fluoranthene	0.257	0.020	mg/kg	0.200	ND	129	70-130			
Chrysene	0.231	0.020	"	0.200	ND	115	70-130			
Dibenz (a,h) anthracene	0.243	0.020	"	0.200	ND	122	70-130			
Fluoranthene	0.227	0.020	"	0.200	ND	114	70-130			
Fluorene	0.255	0.020	"	0.200	ND	127	70-130			
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	ND	109	70-130			
Naphthalene	0.235	0.002	"	0.200	ND	117	70-130			
Phenanthrene	0.228	0.020	"	0.200	ND	114	70-130			
Pyrene	0.214	0.020	"	0.200	ND	107	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		88.8	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

<b>Matrix Spike Dup (B4J2856-MSD1)</b>	<b>Source: E410876-14</b>			<b>Prepared: 10/28/2024 Analyzed: 10/31/2024</b>						
1-Methylnaphthalene	0.228	0.002	mg/kg	0.200	ND	114	70-130	1.62	20	
2-Methylnaphthalene	0.239	0.002	"	0.200	ND	119	70-130	1.13	20	
Acenaphthene	0.245	0.020	"	0.200	ND	122	70-130	0.279	20	
Anthracene	0.214	0.020	"	0.200	ND	107	70-130	0.163	20	
Benzo (a) anthracene	0.209	0.005	"	0.200	ND	104	70-130	6.16	20	
Benzo (a) pyrene	0.226	0.020	"	0.200	ND	113	70-130	6.34	20	
Benzo (b) fluoranthene	0.250	0.020	"	0.200	ND	125	70-130	1.66	20	
Benzo (g,h,i) perylene	0.235	0.020	"	0.200	ND	117	70-130	10.5	20	
Benzo (k) fluoranthene	0.252	0.020	"	0.200	ND	126	70-130	1.91	20	
Chrysene	0.221	0.020	"	0.200	ND	111	70-130	4.15	20	
Dibenz (a,h) anthracene	0.227	0.020	"	0.200	ND	113	70-130	7.02	20	
Fluoranthene	0.242	0.020	"	0.200	ND	121	70-130	6.25	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4J2856 - EPA 3580**

<b>Matrix Spike Dup (B4J2856-MSD1)</b>	<b>Source: E410876-14</b>			<b>Prepared: 10/28/2024 Analyzed: 10/31/2024</b>						
Fluorene	0.246	0.020	mg/kg	0.200	ND	123	70-130	3.43	20	
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	ND	103	70-130	6.35	20	
Naphthalene	0.230	0.002	"	0.200	ND	115	70-130	2.16	20	
Phenanthrene	0.235	0.020	"	0.200	ND	117	70-130	2.68	20	
Pyrene	0.230	0.020	"	0.200	ND	115	70-130	7.56	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.6	60-130			
Surrogate: Anthracene-d10	180		"	200		91.1	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.3	60-130			

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**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 B4J2927 - Saturated Paste pH/EC**

Duplicate (B4J2927-DUP1)		Source: E410789-27			Prepared: 10/29/2024 Analyzed: 10/30/2024					
pH	8.15		pH Units		8.19			0.490	25	

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*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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

Jeremy Espinoza  
Project Number: 09A1417881  
Project: KMG - Camp 24-26 Wellhead

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**Notes and Definitions**

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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