



Ensolum

November 08, 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 21, 2024. This project is associated with Origins project number E410652-01.

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'	E410652-01	Soil	October 21, 2024 12:17	10/21/2024 15:10
WH-RISER@3'	E410652-02	Soil	October 21, 2024 12:20	10/21/2024 15:10
NATIVE-BG06@3'	E410652-03	Soil	October 21, 2024 13:10	10/21/2024 15:10
NATIVE-BG06@6'	E410652-04	Soil	October 21, 2024 13:15	10/21/2024 15:10
NATIVE-BG01@3'	E410652-05	Soil	October 21, 2024 12:25	10/21/2024 15:10
NATIVE-BG01@6'	E410652-06	Soil	October 21, 2024 12:30	10/21/2024 15:10
NATIVE-BG02@3'	E410652-07	Soil	October 21, 2024 12:33	10/21/2024 15:10
NATIVE-BG02@6'	E410652-08	Soil	October 21, 2024 12:36	10/21/2024 15:10
NATIVE-BG03@3'	E410652-09	Soil	October 21, 2024 12:40	10/21/2024 15:10
NATIVE-BG03@6'	E410652-10	Soil	October 21, 2024 12:44	10/21/2024 15:10
NATIVE-BG04@3'	E410652-11	Soil	October 21, 2024 12:50	10/21/2024 15:10
NATIVE-BG04@6'	E410652-12	Soil	October 21, 2024 12:55	10/21/2024 15:10
NATIVE-BG05@3'	E410652-13	Soil	October 21, 2024 13:00	10/21/2024 15:10
NATIVE-BG05@6'	E410652-14	Soil	October 21, 2024 13:04	10/21/2024 15:10

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

**EQ10652**

Client: Ensolum  
Address: 16419 W 44th Ave Ste 100  
Wheat Ridge, CO 80033  
Telephone Number: 720 363 6416  
Email Address: king team

Project Manager: Jeremy Espinoza  
Project Name: SB 09A1417881 Camp 24-26 Wellhead  
Project Number: 09A1417881  
Collected By: Max Bury  
Invoice/Billing Info: King Team  
Key: W=Water  
GW=Groundwater  
SW=Surface Water  
WW=Waste Water  
L=Liquid

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

#	Sample ID	Date		# of Containers	Matrix	Preservative	Analysis			Comments
		Sampled	Time							
1	NaHve-B601231	12/21/24	1225	3	S	Wp				
2	NaHve-B601231		1230							
3	NaHve-B601231		1233							
4	NaHve-B602261		1236							
5	NaHve-B603231		1240							
6	NaHve-B603231		1244							
7	NaHve-B604231		1255							
8	NaHve-B604231		1255							
9	NaHve-B605231		1300							
10	NaHve-B605231		1304							

Relinquished By: M. Bury Date: 12/21/24 Time: 1510  
Received By: [Signature] Date: 12/21/24 Time: 1510  
Temp Received: 7 Received On Ice?  Yes  No  
 Standard  48 Hr  72  
Turnaround Time  SAME DAY  24 Hr

Origins Laboratory  
[Signature]

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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: EHU 0652

Client: Ensolum

Client Project ID: CAMP 24-26

Checklist Completed by: EHU KK

Shipped Via: HO

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10/21/24

Airbill #: N/A

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

Cooler Number/Temperature: 1117 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)?</sup>	/			SD
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? If yes, contact client and note in narrative.			/	
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 HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaAsO2+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) EHU

Date/Time Reviewed 10/21/24

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

**B01@6'**

**10/21/2024 12:17:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.550		0.0986	mg/L	1	B4J2216	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/21/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	56.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.4 %		70-130			"	"	"	

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**B01@6'**

**10/21/2024 12:17:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	99.6 %		70-130			B4J21 60	10/21/2024	10/22/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]		10/22/2024	10/23/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	"	

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

1-Methylnaphthalene	0.008	0.002	mg/kg	1	B4J2158		10/21/2024	10/22/2024	
2-Methylnaphthalene	0.016	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

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**B01@6'**

**10/21/2024 12:17:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-01 (Soil)**

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

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	83.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	112 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.0 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	9.77			pH Units	1	B4J2227	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	0.295		0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.501		0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.11		0.271	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
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**B01@6'**

**10/21/2024 12:17:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	24.9		9.34	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Cadmium	0.101		0.0934	"	"	"	"	"	
Copper	ND		9.34	"	"	"	"	"	
Lead	6.50		0.934	"	"	"	"	"	
Nickel	7.54		0.934	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0934	"	"	"	"	"	
Zinc	ND		34.6	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/30/2024	
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Project: KMG - Camp 24-26 Wellhead

**WH-RISER@3'**

**10/21/2024 12:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.109		0.0986	mg/L	1	B4J2216	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/21/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	59.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.9 %		70-130			"	"	"	

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 Project: KMG - Camp 24-26 Wellhead

**WH-RISER@3'**

**10/21/2024 12:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			B4J21 60	10/21/2024	10/22/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

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

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

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 Project: KMG - Camp 24-26 Wellhead

**WH-RISER@3'**

**10/21/2024 12:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-02 (Soil)**

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

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	81.2 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	109 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.66	pH Units	1	B4J2227	10/22/2024	10/23/2024
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**SAR by 20B Saturated Paste**

SAR	0.327	0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.236	0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024
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**Table 915 metals by EPA 6020B**

Arsenic	1.01	0.257	mg/kg	10	B4J2161	10/21/2024	10/22/2024
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Jeremy Espinoza  
Project Number: 09A1417881  
Project: KMG - Camp 24-26 Wellhead

**WH-RISER@3'**

**10/21/2024 12:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-02 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	40.0		8.87	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Cadmium	0.353		0.0887	"	"	"	"	"	
Copper	ND		8.87	"	"	"	"	"	
Lead	18.1		0.887	"	"	"	"	"	
Nickel	3.37		0.887	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0887	"	"	"	"	"	
Zinc	ND		32.8	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/30/2024	
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Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG06@3'**

**10/21/2024 1:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0997	mg/L	1	B4J2216	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/21/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	64.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	114 %		70-130			"	"	"	
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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

**NATIVE-BG06@3'**

**10/21/2024 1:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.5 %		70-130			B4J21 60	10/21/2024	10/22/2024	
Surrogate: 4-Bromofluorobenzene	99.5 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.21		0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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

**NATIVE-BG06@3'**

**10/21/2024 1:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-03 (Soil)**

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

Fluorene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	76.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.5 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.53			pH Units	1	B4J2227	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	0.174		0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.259		0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

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 Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG06@3'**  
**10/21/2024 1:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.61		0.259	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Barium	37.5		8.95	"	"	"	"	"	
Cadmium	ND		0.0895	"	"	"	"	"	
Copper	ND		8.95	"	"	"	"	"	
Lead	4.57		0.895	"	"	"	"	"	
Nickel	3.61		0.895	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0895	"	"	"	"	"	
Zinc	ND		33.1	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/30/2024	
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 Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG06@6'**

**10/21/2024 1:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.107		0.0990	mg/L	1	B4J2216	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/21/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	67.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %		70-130			"	"	"	

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

**NATIVE-BG06@6'**

**10/21/2024 1:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	100 %	70-130		B4J21 60	10/21/2024	10/22/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.679	0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

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

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

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

**NATIVE-BG06@6'**

**10/21/2024 1:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-04 (Soil)**

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

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	108 %		60-130			"	"	"	
Surrogate: Anthracene-d10	80.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	109 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	92.2 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.84			pH Units	1	B4J2227	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	0.211		0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.328		0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.14		0.274	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
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Jeremy Espinoza  
Project Number: 09A1417881  
Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG06@6'**

**10/21/2024 1:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-04 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	40.0		9.45	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Cadmium	ND		0.0945	"	"	"	"	"	
Copper	ND		9.45	"	"	"	"	"	
Lead	5.79		0.945	"	"	"	"	"	
Nickel	4.97		0.945	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.0945	"	"	"	"	"	
Zinc	ND		35.0	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/31/2024	
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Jeremy Espinoza  
Project Number: 09A1417881  
Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG01@3'**  
**10/21/2024 12:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.102	mg/L	1	B4J2216	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/21/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	58.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	105 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

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

**NATIVE-BG01@3'**

**10/21/2024 12:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.7 %		70-130			B4J21 60	10/21/2024	10/22/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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

**NATIVE-BG01@3'**

**10/21/2024 12:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-05 (Soil)**

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

Fluorene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	79.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.51			pH Units	1	B4J2227	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	0.144		0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0875		0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

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

**NATIVE-BG01@3'**

**10/21/2024 12:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-05 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.18		0.262	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Barium	26.5		9.03	"	"	"	"	"	
Cadmium	ND		0.0903	"	"	"	"	"	
Copper	ND		9.03	"	"	"	"	"	
Lead	3.31		0.903	"	"	"	"	"	
Nickel	2.80		0.903	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	
Silver	ND		0.0903	"	"	"	"	"	
Zinc	ND		33.4	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/31/2024	
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Wheat Ridge CO 80033

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

**NATIVE-BG01@6'**  
**10/21/2024 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.294		0.101	mg/L	1	B4J2216	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/21/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	66.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	106 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.9 %		70-130			"	"	"	

Origins Laboratory



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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

**NATIVE-BG01@6'**  
**10/21/2024 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-06 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	107 %	70-130		B4J21 60	10/21/2024	10/22/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

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

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

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

**NATIVE-BG01@6'**  
**10/21/2024 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-06 (Soil)**

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

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	81.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	109 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.4 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.14			pH Units	1	B4J2227	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	0.264		0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.386		0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.86		0.247	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
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Jeremy Espinoza  
Project Number: 09A1417881  
Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG01@6'**

**10/21/2024 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-06 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	38.8		8.51	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Cadmium	0.106		0.0851	"	"	"	"	"	
Copper	ND		8.51	"	"	"	"	"	
Lead	6.13		0.851	"	"	"	"	"	
Nickel	5.21		0.851	"	"	"	"	"	
Selenium	ND		0.221	"	"	"	"	"	
Silver	ND		0.0851	"	"	"	"	"	
Zinc	ND		31.5	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/31/2024	
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Jeremy Espinoza  
 Project Number: 09A1417881  
 Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG02@3'**  
**10/21/2024 12:33:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0996	mg/L	1	B4J2216	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/21/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	60.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	109 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

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

**NATIVE-BG02@3'**

**10/21/2024 12:33:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-07 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.2 %	70-130	B4J21 60	10/21/2024	10/22/2024
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

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

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

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

**NATIVE-BG02@3'**  
**10/21/2024 12:33:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-07 (Soil)**

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

Fluorene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	109 %		60-130			"	"	"	
Surrogate: Anthracene-d10	78.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.0 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.51			pH Units	1	B4J2227	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	0.201		0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0994		0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

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

**NATIVE-BG02@3'**  
**10/21/2024 12:33:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-07 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.89		0.269	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Barium	54.3		9.28	"	"	"	"	"	
Cadmium	ND		0.0928	"	"	"	"	"	
Copper	ND		9.28	"	"	"	"	"	
Lead	5.12		0.928	"	"	"	"	"	
Nickel	5.15		0.928	"	"	"	"	"	
Selenium	ND		0.241	"	"	"	"	"	
Silver	ND		0.0928	"	"	"	"	"	
Zinc	ND		34.3	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	0.23	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/31/2024	
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Jeremy Espinoza  
Project Number: 09A1417881  
Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG02@6'**  
**10/21/2024 12:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0994	mg/L	1	B4J2216	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/22/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	108 %		70-130			"	"	"	
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 Project Number: 09A1417881  
 Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG02@6'**

**10/21/2024 12:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-08 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.5 %	70-130	B4J21 60	10/21/2024	10/22/2024
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

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

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

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

**NATIVE-BG02@6'**

**10/21/2024 12:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-08 (Soil)**

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

Fluorene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	81.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	106 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.6 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.77			pH Units	1	B4J2227	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	0.139		0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.107		0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

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

**NATIVE-BG02@6'**

**10/21/2024 12:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-08 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	ND		0.270	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Barium	ND		9.29	"	"	"	"	"	
Cadmium	ND		0.0929	"	"	"	"	"	
Copper	ND		9.29	"	"	"	"	"	
Lead	ND		0.929	"	"	"	"	"	
Nickel	ND		0.929	"	"	"	"	"	
Selenium	ND		0.242	"	"	"	"	"	
Silver	ND		0.0929	"	"	"	"	"	
Zinc	ND		34.4	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/31/2024	
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Jeremy Espinoza  
 Project Number: 09A1417881  
 Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG03@3'**  
**10/21/2024 12:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.129		0.0982	mg/L	1	B4J2217	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/22/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	56.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	88.9 %		70-130			"	"	"	

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

**NATIVE-BG03@3'**

**10/21/2024 12:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-09 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	105 %	70-130				B4J21 60	10/21/2024	10/22/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.85	0.499	meq/L	10	[CALC]		10/22/2024	10/23/2024	
Magnesium	1.53	0.823	"	"	"	"	"	"	
Sodium	1.95	0.435	"	"	"	"	"	"	

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

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J2158		10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

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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

**NATIVE-BG03@3'**

**10/21/2024 12:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-09 (Soil)**

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

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	81.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	110 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.0 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.69			pH Units	1	B4J2227	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	1.31		0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0933		0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.85		0.282	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
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Origins Laboratory



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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

**NATIVE-BG03@3'**

**10/21/2024 12:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-09 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	44.0		9.74	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Cadmium	ND		0.0974	"	"	"	"	"	
Copper	ND		9.74	"	"	"	"	"	
Lead	5.01		0.974	"	"	"	"	"	
Nickel	5.81		0.974	"	"	"	"	"	
Selenium	ND		0.253	"	"	"	"	"	
Silver	ND		0.0974	"	"	"	"	"	
Zinc	ND		36.0	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/31/2024	
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 Wheat Ridge CO 80033

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

**NATIVE-BG03@6'**  
**10/21/2024 12:44:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.895		0.101	mg/L	1	B4J2217	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/22/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	64.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.5 %		70-130			"	"	"	

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 Wheat Ridge CO 80033

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

**NATIVE-BG03@6'**  
**10/21/2024 12:44:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-10 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	107 %	70-130			B4J21 60	10/21/2024	10/22/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.20	0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024
Magnesium	5.82	0.823	"	"	"	"	"
Sodium	3.47	0.435	"	"	"	"	"

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

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

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

**NATIVE-BG03@6'**

**10/21/2024 12:44:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-10 (Soil)**

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

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	78.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	106 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.5 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.97			pH Units	1	B4J2227	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	1.63		0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.846		0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.95		0.258	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
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Project Number: 09A1417881  
Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG03@6'**

**10/21/2024 12:44:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-10 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	146		8.88	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Cadmium	0.245		0.0888	"	"	"	"	"	
Copper	9.80		8.88	"	"	"	"	"	
Lead	11.7		0.888	"	"	"	"	"	
Nickel	14.7		0.888	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0888	"	"	"	"	"	
Zinc	45.6		32.9	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/31/2024	
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 Wheat Ridge CO 80033

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

**NATIVE-BG04@3'**

**10/21/2024 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0982	mg/L	1	B4J2217	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/22/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	65.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	91.3 %		70-130			"	"	"	
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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

**NATIVE-BG04@3'**  
**10/21/2024 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-11 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	100 %		70-130			B4J21 60	10/21/2024	10/22/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.98		0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024	
Magnesium	3.64		0.823	"	"	"	"	"	
Sodium	2.26		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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

**NATIVE-BG04@3'**

**10/21/2024 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-11 (Soil)**

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

Fluorene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	82.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	109 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	92.0 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.94			pH Units	1	B4J2227	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	1.35		0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.322		0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

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

**NATIVE-BG04@3'**

**10/21/2024 12:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-11 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.32		0.267	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Barium	32.4		9.22	"	"	"	"	"	
Cadmium	ND		0.0922	"	"	"	"	"	
Copper	ND		9.22	"	"	"	"	"	
Lead	5.41		0.922	"	"	"	"	"	
Nickel	2.77		0.922	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0922	"	"	"	"	"	
Zinc	ND		34.1	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/31/2024	
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Jeremy Espinoza  
 Project Number: 09A1417881  
 Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG04@6'**  
**10/21/2024 12:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-12 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.156		0.100	mg/L	1	B4J2217	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/22/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	65.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	82.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	

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

**NATIVE-BG04@6'**  
**10/21/2024 12:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-12 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	104 %	70-130				B4J21 60	10/21/2024	10/22/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.50	0.499	meq/L	10	[CALC]		10/22/2024	10/23/2024	
Magnesium	2.44	0.823	"	"	"	"	"	"	
Sodium	4.86	0.435	"	"	"	"	"	"	

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

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J2158		10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

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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

**NATIVE-BG04@6'**  
**10/21/2024 12:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-12 (Soil)**

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

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	80.2 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	107 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.0 %	60-130	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.04	pH Units	1	B4J2227	10/22/2024	10/23/2024
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**SAR by 20B Saturated Paste**

SAR	3.09	0.0100	SAR	1	B4J2210	10/22/2024	10/23/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.325	0.00500	mmhos/cm	1	B4J2227	10/22/2024	10/23/2024
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**Table 915 metals by EPA 6020B**

Arsenic	3.93	0.254	mg/kg	10	B4J2161	10/21/2024	10/22/2024
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Jeremy Espinoza  
Project Number: 09A1417881  
Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG04@6'**  
**10/21/2024 12:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-12 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	111		8.77	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Cadmium	0.121		0.0877	"	"	"	"	"	
Copper	ND		8.77	"	"	"	"	"	
Lead	10.0		0.877	"	"	"	"	"	
Nickel	11.9		0.877	"	"	"	"	"	
Selenium	ND		0.228	"	"	"	"	"	
Silver	ND		0.0877	"	"	"	"	"	
Zinc	44.8		32.4	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/25/2024	10/31/2024	
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Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG05@3'**

**10/21/2024 1:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-13 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4J2217	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/22/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	82.8 %		70-130			"	"	"	
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Jeremy Espinoza  
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 Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG05@3'**

**10/21/2024 1:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-13 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	100 %	70-130	B4J21 60	10/21/2024	10/22/2024
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	0.803	0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.15	0.435	"	"	"	"	"

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

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

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**NATIVE-BG05@3'**

**10/21/2024 1:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-13 (Soil)**

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

Fluorene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	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	77.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.6 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.82			pH Units	1	B4J2228	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	5.58		0.0100	SAR	1	B4J2211	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.621		0.00500	mmhos/cm	1	B4J2228	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

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Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG05@3'**

**10/21/2024 1:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-13 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.14		0.256	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Barium	29.4		8.82	"	"	"	"	"	
Cadmium	ND		0.0882	"	"	"	"	"	
Copper	ND		8.82	"	"	"	"	"	
Lead	4.20		0.882	"	"	"	"	"	
Nickel	2.45		0.882	"	"	"	"	"	
Selenium	ND		0.229	"	"	"	"	"	
Silver	ND		0.0882	"	"	"	"	"	
Zinc	ND		32.7	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.21	0.21	mg/kg	1	BHJ1217	10/25/2024	10/31/2024	
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Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG05@6'**

**10/21/2024 1:04:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-14 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.141		0.0994	mg/L	1	B4J2217	10/22/2024	10/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4J2159	10/21/2024	10/22/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	62.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4J2160	10/21/2024	10/22/2024	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	84.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.6 %		70-130			"	"	"	

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 Project: KMG - Camp 24-26 Wellhead

**NATIVE-BG05@6'**

**10/21/2024 1:04:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410652-14 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	104 %	70-130		B4J21 60	10/21/2024	10/22/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/22/2024	10/23/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

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

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U

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**NATIVE-BG05@6'**

**10/21/2024 1:04:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-14 (Soil)**

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

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4J2158	10/21/2024	10/22/2024	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	78.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	109 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.6 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.27			pH Units	1	B4J2228	10/22/2024	10/23/2024	
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**SAR by 20B Saturated Paste**

SAR	ND		0.0100	SAR	1	B4J2211	10/22/2024	10/23/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.483		0.00500	mmhos/cm	1	B4J2228	10/22/2024	10/23/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.70		0.270	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
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**NATIVE-BG05@6'**

**10/21/2024 1:04:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E410652-14 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	<b>68.7</b>		9.31	mg/kg	10	B4J2161	10/21/2024	10/22/2024	
Cadmium	ND		0.0931	"	"	"	"	"	
Copper	ND		9.31	"	"	"	"	"	
Lead	<b>6.94</b>		0.931	"	"	"	"	"	
Nickel	<b>8.32</b>		0.931	"	"	"	"	"	
Selenium	ND		0.242	"	"	"	"	"	
Silver	ND		0.0931	"	"	"	"	"	
Zinc	ND		34.4	"	"	"	"	"	

**Total Metals by SW7199**

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BHJ1217	10/30/2024	10/31/2024	
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**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
<b>Batch B4J2159 - EPA 3550B</b>										
<b>Blank (B4J2159-BLK1)</b>										
					Prepared: 10/21/2024 Analyzed: 10/21/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	17		"	24.9		69.3	50-150			

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**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 B4J2159 - EPA 3550B**

**LCS (B4J2159-BS1)**

Prepared: 10/21/2024 Analyzed: 10/21/2024

Diesel (C10-C28)	787	50.0	mg/kg	1000		78.7	70-130			
Residual Range Organics (C28-C40)	824	200	"	1000		82.4	70-130			
Surrogate: o-Terphenyl	35		"	49.8		69.5	50-150			

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**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 B4J2159 - EPA 3550B**

<b>Matrix Spike (B4J2159-MS1)</b>	<b>Source: E410652-01</b>			<b>Prepared: 10/21/2024 Analyzed: 10/21/2024</b>						
Diesel (C10-C28)	706	50.0	mg/kg	1000	ND	70.6	70-130			
Residual Range Organics (C28-C40)	734	200	"	1000	ND	73.4	70-130			
Surrogate: o-Terphenyl	30		"	49.8		59.9	50-150			

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**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
<b>Batch B4J2159 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4J2159-MSD1)</b>					<b>Source: E410652-01</b>					Prepared: 10/21/2024 Analyzed: 10/21/2024
Diesel (C10-C28)	711	50.0	mg/kg	1000	ND	71.1	70-130	0.711	35	
Residual Range Organics (C28-C40)	747	200	"	1000	ND	74.7	70-130	1.65	35	
Surrogate: o-Terphenyl	38		"	49.8		76.2	50-150			

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Project: KMG - Camp 24-26 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
<b>Batch B4J2160 - EPA 5030 (soil)</b>										
<b>Blank (B4J2160-BLK1)</b>										
					Prepared: 10/21/2024 Analyzed: 10/22/2024					
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
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.4		70-130			

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 Project Number: 09A1417881  
 Project: KMG - Camp 24-26 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 B4J2160 - EPA 5030 (soil)**

**LCS (B4J2160-BS1)**

Prepared: 10/21/2024 Analyzed: 10/21/2024

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	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.221	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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**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 B4J2160 - EPA 5030 (soil)**

Matrix Spike (B4J2160-MS1)	Source: E410652-01			Prepared: 10/21/2024 Analyzed: 10/22/2024						
1,2,4-Trimethylbenzene	0.0950	0.00200	mg/kg	0.100	ND	95.0	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
Benzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Ethylbenzene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
Naphthalene	0.109	0.00380	"	0.100	ND	109	70-130			
Toluene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
o-Xylene	0.0947	0.00200	"	0.100	ND	94.7	70-130			
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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**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 B4J2160 - EPA 5030 (soil)**

Matrix Spike Dup (B4J2160-MSD1)	Source: E410652-01			Prepared: 10/21/2024 Analyzed: 10/22/2024						
1,2,4-Trimethylbenzene	0.0902	0.00200	mg/kg	0.100	ND	90.2	70-130	5.23	20	
1,3,5-Trimethylbenzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	5.03	20	
Benzene	0.0870	0.00200	"	0.100	ND	87.0	70-130	4.16	20	
Ethylbenzene	0.0883	0.00200	"	0.100	ND	88.3	70-130	4.19	20	
Naphthalene	0.105	0.00380	"	0.100	ND	105	70-130	3.91	20	
Toluene	0.0838	0.00200	"	0.100	ND	83.8	70-130	2.92	20	
o-Xylene	0.0913	0.00200	"	0.100	ND	91.3	70-130	3.70	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	89.0	70-130	4.05	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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**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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**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 B4J2161 - EPA 3050B**

**Blank (B4J2161-BLK1)**

Prepared: 10/21/2024 Analyzed: 10/22/2024

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 (B4J2161-BS1)**

Prepared: 10/21/2024 Analyzed: 10/22/2024

Arsenic	5.33	0.290	mg/kg	5.00		107	80-120			
Barium	518	10.0	"	500		104	80-120			
Cadmium	5.49	0.100	"	5.00		110	80-120			
Copper	53.3	10.0	"	50.0		107	80-120			
Lead	5.41	1.00	"	5.00		108	80-120			
Nickel	5.49	1.00	"	5.00		110	80-120			
Selenium	5.26	0.260	"	5.00		105	80-120			
Silver	5.60	0.100	"	5.00		112	80-120			
Zinc	56.2	37.0	"	50.0		112	80-120			

**Matrix Spike (B4J2161-MS1)**

**Source: E410652-03**

Prepared: 10/21/2024 Analyzed: 10/22/2024

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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 B4J2161 - EPA 3050B**

<b>Matrix Spike (B4J2161-MS1)</b>	<b>Source: E410652-03</b>			<b>Prepared: 10/21/2024 Analyzed: 10/22/2024</b>						
Arsenic	6.98	0.286	mg/kg	4.94	1.61	109	75-125			
Barium	558	9.88	"	494	37.5	105	75-125			
Cadmium	5.41	0.0988	"	4.94	0.0671	108	75-125			
Copper	56.5	9.88	"	49.4	3.25	108	75-125			
Lead	10.8	0.988	"	4.94	4.57	126	75-125			QM-07
Nickel	10.2	0.988	"	4.94	3.61	134	75-125			QM-07
Selenium	5.24	0.257	"	4.94	0.0957	104	75-125			
Silver	5.39	0.0988	"	4.94	ND	109	75-125			
Zinc	75.5	36.5	"	49.4	18.4	116	75-125			

<b>Matrix Spike Dup (B4J2161-MSD1)</b>	<b>Source: E410652-03</b>			<b>Prepared: 10/21/2024 Analyzed: 10/22/2024</b>						
Arsenic	7.27	0.282	mg/kg	4.86	1.61	116	75-125	4.07	20	
Barium	545	9.72	"	486	37.5	104	75-125	2.40	20	
Cadmium	5.40	0.0972	"	4.86	0.0671	110	75-125	0.302	20	
Copper	56.3	9.72	"	48.6	3.25	109	75-125	0.276	20	
Lead	10.5	0.972	"	4.86	4.57	122	75-125	2.89	20	
Nickel	10.1	0.972	"	4.86	3.61	134	75-125	0.836	20	QM-07
Selenium	5.36	0.253	"	4.86	0.0957	108	75-125	2.37	20	
Silver	5.40	0.0972	"	4.86	ND	111	75-125	0.300	20	
Zinc	75.0	36.0	"	48.6	18.4	117	75-125	0.733	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 B4J2158 - EPA 3580**

**Blank (B4J2158-BLK1)**

Prepared: 10/21/2024 Analyzed: 10/22/2024

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

Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	170		"	200		82.6	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.3	60-130			

**LCS (B4J2158-BS1)**

Prepared: 10/21/2024 Analyzed: 10/22/2024

1-Methylnaphthalene	0.168	0.002	mg/kg	0.200		84.1	70-130			
2-Methylnaphthalene	0.169	0.002	"	0.200		84.3	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.7	70-130			
Anthracene	0.170	0.020	"	0.200		84.8	70-130			

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Project: KMG - Camp 24-26 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 B4J2158 - EPA 3580**

**LCS (B4J2158-BS1)**

Prepared: 10/21/2024 Analyzed: 10/22/2024

Benzo (a) anthracene	0.186	0.005	mg/kg	0.200		93.2	70-130			
Benzo (a) pyrene	0.173	0.020	"	0.200		86.6	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.181	0.020	"	0.200		90.6	70-130			
Benzo (k) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Chrysene	0.187	0.020	"	0.200		93.7	70-130			
Dibenz (a,h) anthracene	0.180	0.020	"	0.200		90.0	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.3	70-130			
Fluorene	0.195	0.020	"	0.200		97.4	70-130			
Indeno (1,2,3-cd) pyrene	0.220	0.020	"	0.200		110	70-130			
Naphthalene	0.187	0.002	"	0.200		93.4	70-130			
Phenanthrene	0.184	0.020	"	0.200		92.2	70-130			
Pyrene	0.214	0.020	"	0.200		107	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	170		"	200		86.5	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.4	60-130			

**Matrix Spike (B4J2158-MS1)**

**Source: E410652-01**

Prepared: 10/21/2024 Analyzed: 10/22/2024

1-Methylnaphthalene	0.184	0.002	mg/kg	0.200	0.008	88.0	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200	0.016	86.0	70-130			
Acenaphthene	0.189	0.020	"	0.200	0.0007	94.0	70-130			
Anthracene	0.157	0.020	"	0.200	ND	78.4	70-130			
Benzo (a) anthracene	0.185	0.005	"	0.200	0.002	91.4	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200	0.003	93.3	70-130			
Benzo (b) fluoranthene	0.218	0.020	"	0.200	0.004	107	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200	0.005	93.4	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 B4J2158 - EPA 3580**

<b>Matrix Spike (B4J2158-MS1)</b>	<b>Source: E410652-01</b>			<b>Prepared: 10/21/2024 Analyzed: 10/22/2024</b>						
Benzo (k) fluoranthene	0.200	0.020	mg/kg	0.200	0.003	98.8	70-130			
Chrysene	0.204	0.020	"	0.200	0.003	100	70-130			
Dibenz (a,h) anthracene	0.188	0.020	"	0.200	0.005	91.5	70-130			
Fluoranthene	0.204	0.020	"	0.200	0.002	101	70-130			
Fluorene	0.185	0.020	"	0.200	ND	92.4	70-130			
Indeno (1,2,3-cd) pyrene	0.234	0.020	"	0.200	0.006	114	70-130			
Naphthalene	0.190	0.002	"	0.200	0.001	94.3	70-130			
Phenanthrene	0.178	0.020	"	0.200	0.0008	88.8	70-130			
Pyrene	0.221	0.020	"	0.200	0.0005	110	70-130			
<i>Surrogate: Fluorene-d10</i>	190		ug/kg	200		96.9	60-130			
<i>Surrogate: Anthracene-d10</i>	160		"	200		82.5	60-130			
<i>Surrogate: Pyrene-d10</i>	220		"	200		108	60-130			
<i>Surrogate: Benzo (a) pyrene-d12</i>	200		"	200		102	60-130			

<b>Matrix Spike Dup (B4J2158-MSD1)</b>	<b>Source: E410652-01</b>			<b>Prepared: 10/21/2024 Analyzed: 10/22/2024</b>						
1-Methylnaphthalene	0.181	0.002	mg/kg	0.200	0.008	86.8	70-130	1.36	20	
2-Methylnaphthalene	0.179	0.002	"	0.200	0.016	81.2	70-130	5.17	20	
Acenaphthene	0.186	0.020	"	0.200	0.0007	92.9	70-130	1.23	20	
Anthracene	0.161	0.020	"	0.200	ND	80.4	70-130	2.49	20	
Benzo (a) anthracene	0.196	0.005	"	0.200	0.002	96.9	70-130	5.80	20	
Benzo (a) pyrene	0.190	0.020	"	0.200	0.003	93.7	70-130	0.464	20	
Benzo (b) fluoranthene	0.204	0.020	"	0.200	0.004	100	70-130	6.63	20	
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	0.005	89.9	70-130	3.76	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	0.003	98.9	70-130	0.114	20	
Chrysene	0.199	0.020	"	0.200	0.003	98.1	70-130	2.13	20	
Dibenz (a,h) anthracene	0.191	0.020	"	0.200	0.005	93.0	70-130	1.58	20	
Fluoranthene	0.205	0.020	"	0.200	0.002	101	70-130	0.304	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 B4J2158 - EPA 3580**

<b>Matrix Spike Dup (B4J2158-MSD1)</b>	<b>Source: E410652-01</b>			<b>Prepared: 10/21/2024 Analyzed: 10/22/2024</b>						
Fluorene	0.183	0.020	mg/kg	0.200	ND	91.7	70-130	0.812	20	
Indeno (1,2,3-cd) pyrene	0.231	0.020	"	0.200	0.006	113	70-130	1.15	20	
Naphthalene	0.181	0.002	"	0.200	0.001	89.6	70-130	5.04	20	
Phenanthrene	0.171	0.020	"	0.200	0.0008	84.9	70-130	4.53	20	
Pyrene	0.219	0.020	"	0.200	0.0005	109	70-130	0.669	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.2	60-130			
Surrogate: Anthracene-d10	160		"	200		81.5	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			

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**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 B4J2210 - Saturated Paste Metals**

**Blank (B4J2210-BLK1)**

Prepared: 10/22/2024 Analyzed: 10/25/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

**Duplicate (B4J2210-DUP1)**

**Source: E410651-03**

Prepared: 10/22/2024 Analyzed: 10/25/2024

Calcium PPM	17.2	10.0	mg/L	44.6	88.5	50	QR-DUP
SAR	ND	0.0100	SAR	2.44		200	
Magnesium PPM	3.81	10.0	mg/L	9.54	85.8	50	QR-DUP
Sodium PPM	40.4	10.0	"	68.9	52.1	50	QR-DUP

**Batch B4J2211 - Saturated Paste Metals**

**Blank (B4J2211-BLK1)**

Prepared: 10/22/2024 Analyzed: 10/25/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

**Duplicate (B4J2211-DUP1)**

**Source: E410652-13**

Prepared: 10/22/2024 Analyzed: 10/23/2024

Calcium PPM	21.7	10.0	mg/L	16.1	29.6	50	
SAR	ND	0.0100	SAR	5.58		200	
Magnesium PPM	4.71	10.0	mg/L	3.68	24.6	50	
Sodium PPM	104	10.0	"	95.4	8.19	50	

**Batch B4J2216 - DTPA Sorbitol Preparation**

**Blank (B4J2216-BLK1)**

Prepared: 10/22/2024 Analyzed: 10/23/2024

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

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4J2216 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4J2216-BLK1)</b>					Prepared: 10/22/2024 Analyzed: 10/23/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4J2216-DUP1)</b>		<b>Source: E410647-06</b>			Prepared: 10/22/2024 Analyzed: 10/24/2024					
Boron	0.500	1.00	mg/L		0.454			9.56	50	
<b>Batch B4J2217 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4J2217-BLK1)</b>					Prepared: 10/22/2024 Analyzed: 10/23/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4J2217-DUP1)</b>		<b>Source: E410652-09</b>			Prepared: 10/22/2024 Analyzed: 10/23/2024					
Boron	0.128	0.101	mg/L		0.129			0.199	50	

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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 B4J2227 - Saturated Paste pH/EC**

**Blank (B4J2227-BLK1)**

Prepared: 10/22/2024 Analyzed: 10/23/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4J2227-DUP1)**

**Source: E410651-03**

Prepared: 10/22/2024 Analyzed: 10/23/2024

Specific Conductance (EC)	0.350	0.00500	mmhos/cm	0.708	67.8	25	QR-DUP
pH	8.11		pH Units	7.93	2.24	25	

**Batch B4J2228 - Saturated Paste pH/EC**

**Blank (B4J2228-BLK1)**

Prepared: 10/22/2024 Analyzed: 10/23/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4J2228-DUP1)**

**Source: E410652-13**

Prepared: 10/22/2024 Analyzed: 10/23/2024

pH	7.99		pH Units	7.82	2.15	25	
Specific Conductance (EC)	0.554	0.00500	mmhos/cm	0.621	11.4	25	

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**Total Metals by SW7199 - Quality Control**  
**Enthalpy Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch BHJ1217 - No Prep Wet Chem</b>										
<b>Blank (BHJ1217-BLK1)</b>					Prepared: 10/30/2024 Analyzed: 10/30/2024					
Chromium, Hexavalent	ND	0.005	mg/kg				-			
<b>LCS (BHJ1217-BS1)</b>					Prepared: 10/30/2024 Analyzed: 10/30/2024					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		101	80-120			
<b>Matrix Spike (BHJ1217-MS1)</b>					Source: 24J1562-10 Prepared: 10/30/2024 Analyzed: 10/31/2024					
Chromium, Hexavalent	1.99	0.20	mg/kg	2.03	ND	97.9	75-125			
<b>Matrix Spike Dup (BHJ1217-MSD1)</b>					Source: 24J1562-10 Prepared: 10/30/2024 Analyzed: 10/31/2024					
Chromium, Hexavalent	2.19	0.20	mg/kg	2.05	ND	107	75-125	9.79	20	

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### Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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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