



Absaroka
Max Dahlgren
112 High St.

June 02, 2025

Buffalo WY 82834

Project Name - KMG - Turkey Springs 1N-14HZ Wellhead **Project Number - [none]**

Attached are your analytical results for KMG - Turkey Springs 1N-14HZ Wellhead received by Origins Laboratory May 13, 2025. This project is associated with Origins project number E5E0431-01.

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



Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Turkey Springs 1N-14HZ
Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	E5E0431-01	Soil	May 13, 2025 13:45	05/13/2025 17:00
WH-RISER@4'	E5E0431-02	Soil	May 13, 2025 13:50	05/13/2025 17:00

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ORIGINS LABORATORY

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112 High St.
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Max Dahlgren
Project Number: [none]
Project: KMG - Turkey Springs 1N-14HZ
Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E5E0431

Client: Absaroka

Client Project ID: Turkey Springs 1N-14HZ WH

Checklist Completed by: JAR/JAR

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

Date/time completed: 5/13/25

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.9 °C (Describe)

Thermometer ID: TC07

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

⁽¹⁾²If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be in the additional comments (above) and the case narrative.

[Signature]
Reviewed by (Project Manager)

05/13/25
Date/Time Reviewed

Origins Laboratory

[Signature]

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Max Dahlgren
 Project Number: [none]
 Project: KMG - Turkey Springs 1N-14HZ
 Wellhead

WH-B01@6'
5/13/2025 1:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0431-01 (Soil)									
Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND		0.30	mg/Kg	1	371579	05/16/2025	05/20/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.571		0.0992	mg/L	1	B5E1455	05/14/2025	05/16/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	79.5		25.0	mg/kg	1	B5E1449	05/14/2025	05/15/2025	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	101 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1425	05/14/2025	05/16/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

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Project: KMG - Turkey Springs 1N-14HZ
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WH-B01@6'
5/13/2025 1:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0431-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E1425	05/14/2025	05/16/2025	U
Surrogate: 1,2-Dichloroethane-d4	121 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.91		0.499	meq/L	10	[CALC]	05/19/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.10		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.007		0.002	mg/kg	1	B5E1465	05/14/2025	05/15/2025	
2-Methylnaphthalene	0.014		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

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WH-B01@6'
5/13/2025 1:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0431-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5E1465	05/14/2025	05/15/2025	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	0.005		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	103 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	10.2			pH Units	1	B5E1930	05/19/2025	05/20/2025	
SAR by 20B Saturated Paste									
SAR	1.13		0.0100	SAR	1	B5E1920	05/19/2025	05/20/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.371		0.00500	mmhos/cm	1	B5E1930	05/19/2025	05/20/2025	

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WH-B01@6'
 5/13/2025 1:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0431-01 (Soil) Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	2.38		0.254	mg/kg	10	B5E1469	05/14/2025	05/15/2025	
Barium	1890		71.9	"	"	"	"	"	
Cadmium	ND		0.333	"	"	"	"	"	U
Copper	ND		40.3	"	"	"	"	"	U
Lead	ND		12.3	"	"	"	"	"	U
Nickel	ND		22.8	"	"	"	"	"	U
Selenium	ND		0.228	"	"	"	"	"	U
Silver	ND		0.701	"	"	"	"	"	U
Zinc	ND		324	"	"	"	"	"	U

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WH-RISER@4'
5/13/2025 1:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0431-02 (Soil)									
Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND		0.29	mg/Kg	1	371579	05/16/2025	05/20/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.218		0.101	mg/L	1	B5E1455	05/14/2025	05/16/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1449	05/14/2025	05/15/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	108 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1425	05/14/2025	05/16/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

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WH-RISER@4'
5/13/2025 1:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0431-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E1425	05/14/2025	05/16/2025	U
Surrogate: 1,2-Dichloroethane-d4	119 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.81		0.499	meq/L	10	[CALC]	05/19/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1465	05/14/2025	05/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U

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Project: KMG - Turkey Springs 1N-14HZ
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WH-RISER@4'
5/13/2025 1:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0431-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg	1	B5E1465	05/14/2025	05/15/2025	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.0 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.42			pH Units	1	B5E1930	05/19/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.0999		0.0100	SAR	1	B5E1920	05/19/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.309		0.00500	mmhos/cm	1	B5E1930	05/19/2025	05/20/2025	
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 Project Number: [none]
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 Wellhead

WH-RISER@4'
5/13/2025 1:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0431-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.34		0.270	mg/kg	10	B5E1469	05/14/2025	05/15/2025	
Barium	128		76.4	"	"	"	"	"	
Cadmium	ND		0.354	"	"	"	"	"	U
Copper	ND		42.9	"	"	"	"	"	U
Lead	ND		13.0	"	"	"	"	"	U
Nickel	ND		24.2	"	"	"	"	"	U
Selenium	ND		0.242	"	"	"	"	"	U
Silver	ND		0.745	"	"	"	"	"	U
Zinc	ND		345	"	"	"	"	"	U

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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 B5E1455 - DTPA Sorbitol Preparation

Blank (B5E1455-BLK1)

Prepared: 05/14/2025 Analyzed: 05/16/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5E1455-DUP1)

Source: E5E0446-02

Prepared: 05/14/2025 Analyzed: 05/16/2025

Boron	0.287	0.100	mg/L		0.251			13.4	50	
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Batch B5E1920 - Saturated Paste Metals

Blank (B5E1920-BLK1)

Prepared: 05/19/2025 Analyzed: 05/20/2025

Calcium PPM	ND	10.0	mg/L							U
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SAR	ND	0.0100	SAR							U
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Magnesium PPM	ND	10.0	mg/L							U
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Sodium PPM	ND	10.0	"							U
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Duplicate (B5E1920-DUP1)

Source: E5E0395-17

Prepared: 05/19/2025 Analyzed: 05/20/2025

SAR	ND	0.0100	SAR		0.501				200	U
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Calcium PPM	1.34	10.0	mg/L		1.74			26.0	50	U
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Magnesium PPM	0.850	10.0	"		0.800			6.06	50	U
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Sodium PPM	4.20	10.0	"		3.18			27.6	50	U
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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 B5E1465 - EPA 3580

Blank (B5E1465-BLK1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		98.4	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

LCS (B5E1465-BS1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.203	0.002	"	0.200		102	70-130			
Acenaphthene	0.208	0.020	"	0.200		104	70-130			
Anthracene	0.195	0.020	"	0.200		97.7	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 B5E1465 - EPA 3580

LCS (B5E1465-BS1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

Benzo (a) anthracene	0.199	0.005	mg/kg	0.200		99.7	70-130			
Benzo (a) pyrene	0.199	0.020	"	0.200		99.3	70-130			
Benzo (b) fluoranthene	0.203	0.020	"	0.200		101	70-130			
Benzo (g,h,i) perylene	0.184	0.020	"	0.200		91.9	70-130			
Benzo (k) fluoranthene	0.187	0.020	"	0.200		93.6	70-130			
Chrysene	0.198	0.020	"	0.200		99.1	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200		107	70-130			
Fluoranthene	0.202	0.020	"	0.200		101	70-130			
Fluorene	0.206	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200		102	70-130			
Naphthalene	0.204	0.002	"	0.200		102	70-130			
Phenanthrene	0.202	0.020	"	0.200		101	70-130			
Pyrene	0.204	0.020	"	0.200		102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		96.5	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.3	60-130			

Matrix Spike (B5E1465-MS1)

Source: E5E0410-01

Prepared: 05/14/2025 Analyzed: 05/15/2025

1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	ND	108	70-130			
2-Methylnaphthalene	0.216	0.002	"	0.200	ND	108	70-130			
Acenaphthene	0.224	0.020	"	0.200	ND	112	70-130			
Anthracene	0.211	0.020	"	0.200	ND	105	70-130			
Benzo (a) anthracene	0.217	0.005	"	0.200	0.001	108	70-130			
Benzo (a) pyrene	0.222	0.020	"	0.200	0.003	110	70-130			
Benzo (b) fluoranthene	0.237	0.020	"	0.200	0.002	117	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.005	98.9	70-130			

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Turkey Springs 1N-14HZ
 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 B5E1465 - EPA 3580

Matrix Spike (B5E1465-MS1)

Source: E5E0410-01

Prepared: 05/14/2025 Analyzed: 05/15/2025

Benzo (k) fluoranthene	0.219	0.020	mg/kg	0.200	0.002	108	70-130			
Chrysene	0.216	0.020	"	0.200	0.001	107	70-130			
Dibenz (a,h) anthracene	0.244	0.020	"	0.200	0.006	119	70-130			
Fluoranthene	0.222	0.020	"	0.200	ND	111	70-130			
Fluorene	0.228	0.020	"	0.200	ND	114	70-130			
Indeno (1,2,3-cd) pyrene	0.223	0.020	"	0.200	0.005	109	70-130			
Naphthalene	0.222	0.002	"	0.200	ND	111	70-130			
Phenanthrene	0.220	0.020	"	0.200	ND	110	70-130			
Pyrene	0.218	0.020	"	0.200	ND	109	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	200		"	200		99.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B5E1465-MSD1)

Source: E5E0410-01

Prepared: 05/14/2025 Analyzed: 05/15/2025

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	ND	99.1	70-130	8.71	20	
2-Methylnaphthalene	0.199	0.002	"	0.200	ND	99.3	70-130	8.36	20	
Acenaphthene	0.210	0.020	"	0.200	ND	105	70-130	6.52	20	
Anthracene	0.194	0.020	"	0.200	ND	96.8	70-130	8.33	20	
Benzo (a) anthracene	0.203	0.005	"	0.200	0.001	101	70-130	6.79	20	
Benzo (a) pyrene	0.219	0.020	"	0.200	0.003	108	70-130	1.69	20	
Benzo (b) fluoranthene	0.237	0.020	"	0.200	0.002	117	70-130	0.183	20	
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	0.005	94.6	70-130	4.29	20	
Benzo (k) fluoranthene	0.219	0.020	"	0.200	0.002	108	70-130	0.126	20	
Chrysene	0.192	0.020	"	0.200	0.001	95.7	70-130	11.5	20	
Dibenz (a,h) anthracene	0.227	0.020	"	0.200	0.006	110	70-130	7.36	20	
Fluoranthene	0.203	0.020	"	0.200	ND	102	70-130	8.71	20	

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Turkey Springs 1N-14HZ
 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 B5E1465 - EPA 3580

Matrix Spike Dup (B5E1465-MSD1)

Source: E5E0410-01

Prepared: 05/14/2025 Analyzed: 05/15/2025

Fluorene	0.212	0.020	mg/kg	0.200	ND	106	70-130	7.16	20	
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	0.005	104	70-130	4.54	20	
Naphthalene	0.205	0.002	"	0.200	ND	102	70-130	8.27	20	
Phenanthrene	0.202	0.020	"	0.200	ND	101	70-130	8.58	20	
Pyrene	0.204	0.020	"	0.200	ND	102	70-130	6.51	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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Absaroka
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Max Dahlgren
Project Number: [none]
Project: KMG - Turkey Springs 1N-14HZ
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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 B5E1449 - EPA 3550B

Blank (B5E1449-BLK1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		110	50-150			

LCS (B5E1449-BS1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	70		"	49.8		142	50-150			

Matrix Spike (B5E1449-MS1)

Source: E5E0423-01

Prepared: 05/14/2025 Analyzed: 05/15/2025

Diesel (C10-C28)	1180	50.0	mg/kg	1000	ND	118	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	61		"	49.8		123	50-150			

Matrix Spike Dup (B5E1449-MSD1)

Source: E5E0423-01

Prepared: 05/14/2025 Analyzed: 05/15/2025

Diesel (C10-C28)	1200	50.0	mg/kg	1000	ND	120	70-130	2.15	35	
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130	3.24	35	
Surrogate: o-Terphenyl	66		"	49.8		133	50-150			

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Absaroka
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Max Dahlgren
 Project Number: [none]
 Project: KMG - Turkey Springs 1N-14HZ
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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 B5E1469 - EPA 3050B

Blank (B5E1469-BLK1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

Arsenic	ND	0.290	mg/kg							U
Barium	ND	82.0	"							U
Cadmium	ND	0.380	"							U
Copper	ND	46.0	"							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.800	"							U
Zinc	ND	370	"							U

LCS (B5E1469-BS1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

Arsenic	5.00	0.290	mg/kg	5.00		100	80-120			
Barium	494	82.0	"	500		98.8	80-120			
Cadmium	5.31	0.380	"	5.00		106	80-120			
Copper	52.8	46.0	"	50.0		106	80-120			
Lead	5.14	14.0	"	5.00		103	80-120			U
Nickel	5.27	26.0	"	5.00		105	80-120			U
Selenium	4.81	0.260	"	5.00		96.1	80-120			
Silver	5.21	0.800	"	5.00		104	80-120			
Zinc	49.8	370	"	50.0		99.7	80-120			U

Matrix Spike (B5E1469-MS1)

Source: E5E0431-02

Prepared: 05/14/2025 Analyzed: 05/15/2025

Arsenic	7.80	0.261	mg/kg	4.49	3.34	99.2	75-125			
Barium	608	73.7	"	449	128	107	75-125			
Cadmium	5.21	0.341	"	4.49	0.140	113	75-125			
Copper	56.4	41.3	"	44.9	8.73	106	75-125			
Lead	12.5	12.6	"	4.49	7.79	104	75-125			U

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Max Dahlgren
 Project Number: [none]
 Project: KMG - Turkey Springs 1N-14HZ
 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1469 - EPA 3050B

Matrix Spike (B5E1469-MS1)

Source: E5E0431-02

Prepared: 05/14/2025 Analyzed: 05/15/2025

Nickel	14.0	23.4	mg/kg	4.49	10.4	81.0	75-125			U
Selenium	4.92	0.234	"	4.49	0.202	105	75-125			
Silver	5.00	0.719	"	4.49	0.0540	110	75-125			
Zinc	82.4	332	"	44.9	43.0	87.7	75-125			U

Matrix Spike Dup (B5E1469-MSD1)

Source: E5E0431-02

Prepared: 05/14/2025 Analyzed: 05/15/2025

Arsenic	7.68	0.277	mg/kg	4.77	3.34	91.0	75-125	1.54	20	
Barium	577	78.2	"	477	128	94.2	75-125	5.32	20	
Cadmium	5.18	0.362	"	4.77	0.140	106	75-125	0.526	20	
Copper	56.7	43.9	"	47.7	8.73	101	75-125	0.498	20	
Lead	11.9	13.4	"	4.77	7.79	86.5	75-125	4.65	20	U
Nickel	13.9	24.8	"	4.77	10.4	75.2	75-125	0.379	20	U
Selenium	4.61	0.248	"	4.77	0.202	92.3	75-125	6.69	20	
Silver	5.04	0.763	"	4.77	0.0540	105	75-125	0.780	20	
Zinc	81.9	353	"	47.7	43.0	81.6	75-125	0.606	20	U

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 Project Number: [none]
 Project: KMG - Turkey Springs 1N-14HZ
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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 B5E1930 - Saturated Paste pH/EC

Blank (B5E1930-BLK1)

Prepared: 05/19/2025 Analyzed: 05/20/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E1930-DUP1)

Source: E5E0395-17

Prepared: 05/19/2025 Analyzed: 05/20/2025

Specific Conductance (EC)	0.0437	0.00500	mmhos/cm		0.0512			15.8	25	
pH	7.43		pH Units		7.56			1.73	25	

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Max Dahlgren
 Project Number: [none]
 Project: KMG - Turkey Springs 1N-14HZ
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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 B5E1425 - EPA 5030 (soil)

Blank (B5E1425-BLK1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
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		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

LCS (B5E1425-BS1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100		88.7	70-130			
1,3,5-Trimethylbenzene	0.0895	0.00200	"	0.100		89.5	70-130			
Benzene	0.0834	0.00200	"	0.100		83.4	70-130			
Ethylbenzene	0.0869	0.00200	"	0.100		86.9	70-130			
Naphthalene	0.0877	0.00380	"	0.100		87.7	70-130			
Toluene	0.0844	0.00200	"	0.100		84.4	70-130			
o-Xylene	0.0870	0.00200	"	0.100		87.0	70-130			
m,p-Xylene	0.171	0.00400	"	0.200		85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Matrix Spike (B5E1425-MS1)

Source: E5E0410-01

Prepared: 05/14/2025 Analyzed: 05/16/2025

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130			
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Absaroka
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 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Turkey Springs 1N-14HZ
 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 B5E1425 - EPA 5030 (soil)

Matrix Spike (B5E1425-MS1)

Source: E5E0410-01

Prepared: 05/14/2025 Analyzed: 05/16/2025

1,3,5-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
Benzene	0.0957	0.00200	"	0.100	ND	95.7	70-130			
Ethylbenzene	0.0980	0.00200	"	0.100	ND	98.0	70-130			
Naphthalene	0.111	0.00380	"	0.100	ND	111	70-130			
Toluene	0.0825	0.00200	"	0.100	ND	82.5	70-130			
o-Xylene	0.0985	0.00200	"	0.100	ND	98.5	70-130			
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.2	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Matrix Spike Dup (B5E1425-MSD1)

Source: E5E0410-01

Prepared: 05/14/2025 Analyzed: 05/16/2025

1,2,4-Trimethylbenzene	0.0987	0.00200	mg/kg	0.100	ND	98.7	70-130	1.41	20	
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	1.88	20	
Benzene	0.0949	0.00200	"	0.100	ND	94.9	70-130	0.797	20	
Ethylbenzene	0.0944	0.00200	"	0.100	ND	94.4	70-130	3.74	20	
Naphthalene	0.122	0.00380	"	0.100	ND	122	70-130	8.69	20	
Toluene	0.0909	0.00200	"	0.100	ND	90.9	70-130	9.66	20	
o-Xylene	0.0966	0.00200	"	0.100	ND	96.6	70-130	1.95	20	
m,p-Xylene	0.184	0.00400	"	0.200	ND	91.9	70-130	2.49	20	

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Turkey Springs 1N-14HZ
 Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 371579 - EPA 3060A

BLANK (QC1258120)

Prepared: 05/16/2025 Analyzed: 05/20/2025

Hexavalent Chromium	ND	0.30	mg/Kg							ND
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LCS (QC1258121)

Prepared: 05/16/2025 Analyzed: 05/20/2025

Hexavalent Chromium	40.08	0.6000	mg/Kg	40.00		100	80-120			
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Duplicate (QC1258122)

Source: E5E0431-01

Prepared: 05/16/2025 Analyzed: 05/20/2025

Hexavalent Chromium	ND	0.2930	mg/Kg		0				30	ND
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Matrix Spike (QC1258124)

Source: E5E0431-01

Prepared: 05/16/2025 Analyzed: 05/20/2025

Hexavalent Chromium	29.17	0.5882	mg/Kg	39.22	0	74	70-130			
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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Turkey Springs 1N-14HZ
Wellhead

Notes and Definitions

- U Sample is Non-Detect.
- ND Not Detected
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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