

ORIGINS LABORATORY

Absaroka
Max Dahlgren
112 High St.

Buffalo WY 82834

December 11, 2024

Project Name - KMG - McDonald 2-4A Wellhead Project Number - [none]

Attached are your analytical results for KMG - McDonald 2-4A Wellhead received by Origins Laboratory November 11, 2024. This project is associated with Origins project number E4K0268-01.

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 - McDonald 2-4A Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B17@4'	E4K0268-01	Soil	November 11, 2024 13:51	11/11/2024 14:47
FL-B18@4'	E4K0268-02	Soil	November 11, 2024 14:16	11/11/2024 14:47

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

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

Sample Receipt Checklist

Origins Work Order: E4120268 Client: Absaroka
 Checklist Completed by: SHJ NS Client Project ID: McDonald
 Date/time completed: 11/11/24 Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1/160 °C °C °C °C (Describe)
 Thermometer ID: 7007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / preservation is not confirmed for subcontracted analyses in order to insure sample integrity (pH <2 for samples preserved with HNO3, HCl, H2SO4) / pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) SHJ

11/11/24
Date/Time Reviewed

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

FL-B17@4'

11/11/2024 1:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0268-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.514	0.0994	mg/L	1	B4K1203	11/12/2024	11/13/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4K1101	11/11/2024	11/11/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.2 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4K1134	11/11/2024	11/11/2024	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	116 %	70-130	"	"	"	"	"	"
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Origins Laboratory



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Project: KMG - McDonald 2-4A Wellhead

FL-B17@4'

11/11/2024 1:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0268-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B4K11 34	11/11/2024	11/11/2024	
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.46		0.499	meq/L	10	[CALC]	11/12/2024	11/13/2024	
Magnesium	3.52		0.823	"	"	"	"	"	
Sodium	3.27		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L785016	11/19/2024	11/21/2024	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000744	0.000394	0.00067	"	"	"	"	"	

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Project: KMG - McDonald 2-4A Wellhead

FL-B17@4'

11/11/2024 1:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E4K0268-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L785016	11/19/2024	11/21/2024	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	0.000853	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	34.9 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	49.4 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	58.7 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	7.89			pH Units	1	B4K1210	11/12/2024	11/13/2024	
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SAR by 20B Saturated Paste

SAR	1.54		0.0100	SAR	1	B4K1205	11/12/2024	11/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.36		0.00500	mmhos/cm	1	B4K1210	11/12/2024	11/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.68		0.266	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
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Project: KMG - McDonald 2-4A Wellhead

FL-B17@4'

11/11/2024 1:51:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0268-01 (Soil)

Table 915 metals by EPA 6020B

Barium	116	9.18	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Cadmium	0.117	0.0918	"	"	"	"	"	"
Copper	ND	9.18	"	"	"	"	"	U
Lead	8.79	0.918	"	"	"	"	"	"
Nickel	10.3	0.918	"	"	"	"	"	"
Selenium	ND	0.239	"	"	"	"	"	U
Silver	ND	0.0918	"	"	"	"	"	U
Zinc	34.5	34.0	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L784798	11/11/2024	11/18/2024
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Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

FL-B18@4'

11/11/2024 2:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0268-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.131		0.100	mg/L	1	B4K1203	11/12/2024	11/13/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	60.7		25.0	mg/kg	1	B4K1101	11/11/2024	11/11/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K1134	11/11/2024	11/11/2024	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	115 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

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FL-B18@4'

11/11/2024 2:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0268-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	95.3 %	70-130	B4K11 34	11/11/2024	11/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.939	0.499	meq/L	10	[CALC]	11/12/2024	11/13/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L785016	11/19/2024	11/21/2024
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

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Project Number: [none]
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FL-B18@4'

11/11/2024 2:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E4K0268-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L785016	11/19/2024	11/21/2024	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	45.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	50.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	77 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.41			pH Units	1	B4K1210	11/12/2024	11/13/2024	
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SAR by 20B Saturated Paste

SAR	0.0698		0.0100	SAR	1	B4K1205	11/12/2024	11/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.202		0.00500	mmhos/cm	1	B4K1210	11/12/2024	11/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.36		0.283	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Barium	80.3		9.75	"	"	"	"	"	

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Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

FL-B18@4'

11/11/2024 2:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0268-02 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.110		0.0975	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Copper	ND		9.75	"	"	"	"	"	U
Lead	7.25		0.975	"	"	"	"	"	
Nickel	7.48		0.975	"	"	"	"	"	
Selenium	ND		0.254	"	"	"	"	"	U
Silver	ND		0.0975	"	"	"	"	"	U
Zinc	40.0		36.1	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L784801	11/11/2024	11/18/2024	
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 Buffalo WY 82834

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 Project Number: [none]
 Project: KMG - McDonald 2-4A Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1101 - EPA 3550B

Blank (B4K1101-BLK1)

Prepared: 11/11/2024 Analyzed: 11/11/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.4	50-150			

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 Project Number: [none]
 Project: KMG - McDonald 2-4A Wellhead

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1101 - EPA 3550B

LCS (B4K1101-BS1)

Prepared: 11/11/2024 Analyzed: 11/11/2024

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.2	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 B4K1101 - EPA 3550B

Matrix Spike (B4K1101-MS1)

Source: E4K0264-01

Prepared: 11/11/2024 Analyzed: 11/11/2024

Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	70-130			
Residual Range Organics (C28-C40)	1260	200	"	1000	ND	126	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	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 B4K1101 - EPA 3550B

Matrix Spike Dup (B4K1101-MSD1)

Source: E4K0264-01

Prepared: 11/11/2024 Analyzed: 11/11/2024

Diesel (C10-C28)	904	50.0	mg/kg	1000	ND	90.4	70-130	22.8	35	
Residual Range Organics (C28-C40)	968	200	"	1000	ND	96.8	70-130	26.6	35	
Surrogate: o-Terphenyl	36		"	49.8		72.6	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 B4K1134 - EPA 5030 (soil)

Blank (B4K1134-BLK1)

Prepared: 11/11/2024 Analyzed: 11/11/2024

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	0.14		"	0.125	112		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A 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 B4K1134 - EPA 5030 (soil)

LCS (B4K1134-BS1)

Prepared: 11/11/2024 Analyzed: 11/11/2024

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.112	0.00380	"	0.100		112	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.212	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Max Dahlgren
 Project Number: [none]
 Project: KMG - McDonald 2-4A 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 B4K1134 - EPA 5030 (soil)

Matrix Spike (B4K1134-MS1)

Source: E4K0264-01

Prepared: 11/11/2024 Analyzed: 11/11/2024

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Naphthalene	0.115	0.00380	"	0.100	ND	115	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.212	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A 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 B4K1134 - EPA 5030 (soil)

Matrix Spike Dup (B4K1134-MSD1)

Source: E4K0264-01

Prepared: 11/11/2024 Analyzed: 11/11/2024

1,2,4-Trimethylbenzene	0.0984	0.00200	mg/kg	0.100	ND	98.4	70-130	9.13	20	
1,3,5-Trimethylbenzene	0.0982	0.00200	"	0.100	ND	98.2	70-130	9.89	20	
Benzene	0.100	0.00200	"	0.100	ND	100	70-130	4.60	20	
Ethylbenzene	0.0974	0.00200	"	0.100	ND	97.4	70-130	8.25	20	
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130	5.83	20	
Toluene	0.0950	0.00200	"	0.100	ND	95.0	70-130	7.54	20	
o-Xylene	0.0989	0.00200	"	0.100	ND	98.9	70-130	8.87	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.3	70-130	7.46	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	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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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A 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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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 B4K1133 - EPA 3050B

Blank (B4K1133-BLK1)

Prepared: 11/11/2024 Analyzed: 11/12/2024

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

LCS (B4K1133-BS1)

Prepared: 11/11/2024 Analyzed: 11/12/2024

Arsenic	5.20	0.290	mg/kg	5.00		104	80-120
Barium	525	10.0	"	500		105	80-120
Cadmium	5.09	0.100	"	5.00		102	80-120
Copper	55.1	10.0	"	50.0		110	80-120
Lead	5.17	1.00	"	5.00		103	80-120
Nickel	5.42	1.00	"	5.00		108	80-120
Selenium	5.44	0.260	"	5.00		109	80-120
Silver	5.62	0.100	"	5.00		112	80-120
Zinc	52.0	37.0	"	50.0		104	80-120

Matrix Spike (B4K1133-MS1)

Source: E4K0266-01

Prepared: 11/11/2024 Analyzed: 11/12/2024

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Jen Pellegrini For Jordan A. Bynon, Project Manager



Absaroka
112 High St.
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Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A 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 B4K1133 - EPA 3050B

Matrix Spike (B4K1133-MS1)

Source: E4K0266-01

Prepared: 11/11/2024 Analyzed: 11/12/2024

Arsenic	9.89	0.262	mg/kg	4.53	5.20	103	75-125			
Barium	701	9.05	"	453	160	119	75-125			
Cadmium	4.96	0.0905	"	4.53	0.165	106	75-125			
Copper	58.8	9.05	"	45.3	11.0	106	75-125			
Lead	15.6	0.905	"	4.53	10.7	109	75-125			
Nickel	18.6	0.905	"	4.53	13.4	116	75-125			
Selenium	5.25	0.235	"	4.53	0.279	110	75-125			
Silver	5.27	0.0905	"	4.53	0.0415	115	75-125			
Zinc	92.2	33.5	"	45.3	46.3	101	75-125			

Matrix Spike Dup (B4K1133-MSD1)

Source: E4K0266-01

Prepared: 11/11/2024 Analyzed: 11/12/2024

Arsenic	9.81	0.244	mg/kg	4.20	5.20	110	75-125	0.763	20	
Barium	580	8.41	"	420	160	99.9	75-125	18.8	20	
Cadmium	4.53	0.0841	"	4.20	0.165	104	75-125	9.01	20	
Copper	55.2	8.41	"	42.0	11.0	105	75-125	6.40	20	
Lead	15.8	0.841	"	4.20	10.7	121	75-125	0.846	20	
Nickel	18.3	0.841	"	4.20	13.4	116	75-125	2.00	20	
Selenium	4.77	0.219	"	4.20	0.279	107	75-125	9.58	20	
Silver	4.80	0.0841	"	4.20	0.0415	113	75-125	9.25	20	
Zinc	90.5	31.1	"	42.0	46.3	105	75-125	1.84	20	

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

Classical Chemistry Parameters - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1203 - DTPA Sorbitol Preparation

Blank (B4K1203-BLK1)

Prepared: 11/12/2024 Analyzed: 11/13/2024

Boron	ND	0.100	mg/L							U
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Duplicate (B4K1203-DUP1)

Source: E4K0264-01

Prepared: 11/12/2024 Analyzed: 11/13/2024

Boron	0.724	0.0998	mg/L		0.632			13.5	50	
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Batch B4K1205 - Saturated Paste Metals

Blank (B4K1205-BLK1)

Prepared: 11/12/2024 Analyzed: 11/13/2024

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 (B4K1205-DUP1)

Source: E4K0264-01

Prepared: 11/12/2024 Analyzed: 11/13/2024

Calcium PPM	21.8	10.0	mg/L		24.8			12.9	50	
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SAR	ND	0.0100	SAR		0.444				200	U
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Magnesium PPM	13.1	10.0	mg/L		15.3			15.4	50	
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Sodium PPM	9.29	10.0	"		11.4			20.5	50	U
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Jen Pellegrini For Jordan A. Bynon, Project Manager



Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - McDonald 2-4A Wellhead

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1210 - Saturated Paste pH/EC

Blank (B4K1210-BLK1)

Prepared: 11/12/2024 Analyzed: 11/13/2024

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B4K1210-DUP1)

Source: E4K0264-01

Prepared: 11/12/2024 Analyzed: 11/13/2024

pH	8.29		pH Units		8.24		0.605		25	
Specific Conductance (EC)	0.301	0.00500	mmhos/cm		0.341		12.3		25	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L785016 - 3550B

MSD (L 98530-MSD-L785016)

Source: 98530

Prepared: 11/19/2024 Analyzed: 11/21/2024

Chrysene	0.0844	0.00067	mg/Kg	0.164	<0.000624	51.4	30-130	20.8	30	
Anthracene	0.0978	0.00067	"	0.164	<0.000334	59.6	30-130	22	30	
Pyrene	0.0933	0.00067	"	0.164	<0.000643	56.8	30-130	20.8	30	
Naphthalene	0.0816	0.00201	"	0.164	<0.00145	49.7	30-130	17.1	30	
Indeno(1,2,3-cd)pyrene	0.129	0.00067	"	0.164	<0.000627	78.6	30-130	12.3	30	
Fluorene	0.0782	0.00067	"	0.164	<0.000286	47.6	30-130	27.3	30	
Fluoranthene	0.091	0.00067	"	0.164	<0.000394	55.4	30-130	22.4	30	
Dibenz(a,h)anthracene	0.129	0.00067	"	0.164	<0.000614	78.6	30-130	10.2	30	
2-Methylnaphthalene	0.0842	0.00201	"	0.164	<0.00194	51.3	30-130	7.5	30	
Benzo(a)pyrene	0.0958	0.00067	"	0.164	<0.000468	58.4	30-130	20.7	30	
Benzo(k)fluoranthene	0.101	0.00067	"	0.164	<0.000437	61.5	30-130	15.5	30	
Acenaphthene	0.08	0.00067	"	0.164	<0.000304	48.7	30-130	26	30	
Benzo(a)anthracene	0.0816	0.00067	"	0.164	<0.000493	49.7	30-130	22.2	30	
Benzo(b)fluoranthene	0.1	0.00067	"	0.164	<0.000585	60.9	30-130	16.5	30	
1-Methylnaphthalene	0.0859	0.00201	"	0.164	<0.00109	52.3	30-130	7.1	30	
Surrogate: Nitrobenzene-d5	65.8		"	0.328	260	65.8	29-110			
Surrogate: 2-Fluorobiphenyl	38.4		"	0.328	188	38.4	33-115			
Surrogate: 4-Terphenyl-d14	41.1		"	0.328	156	41.1	33-122			

MS (L 98530-MS-L785016)

Source: 98530

Prepared: 11/19/2024 Analyzed: 11/21/2024

Indeno(1,2,3-cd)pyrene	0.146	0.00067	mg/Kg	0.166	<0.000627	87.9	30-130			
Benzo(k)fluoranthene	0.118	0.00067	"	0.166	<0.000437	71	30-130			
Naphthalene	0.0969	0.00201	"	0.166	<0.00145	58.3	30-130			
Pyrene	0.115	0.00067	"	0.166	<0.000643	69.2	30-130			
Fluorene	0.103	0.00067	"	0.166	<0.000286	62	30-130			
Fluoranthene	0.114	0.00067	"	0.166	<0.000394	68.6	30-130			
Dibenz(a,h)anthracene	0.143	0.00067	"	0.166	<0.000614	86.1	30-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L785016 - 3550B

MS (L 98530-MS-L785016)

Source: 98530

Prepared: 11/19/2024 Analyzed: 11/21/2024

Chrysene	0.104	0.00067	mg/Kg	0.166	<0.000624	62.6	30-130			
Benzo(a)pyrene	0.118	0.00067	"	0.166	<0.000468	71	30-130			
Benzo(a)anthracene	0.102	0.00067	"	0.166	<0.000493	61.4	30-130			
Anthracene	0.122	0.00067	"	0.166	<0.000334	73.4	30-130			
Acenaphthene	0.104	0.00067	"	0.166	<0.000304	62.6	30-130			
2-Methylnaphthalene	0.0908	0.00201	"	0.166	<0.00194	54.6	30-130			
1-Methylnaphthalene	0.0923	0.00201	"	0.166	<0.00109	55.6	30-130			
Benzo(b)fluoranthene	0.118	0.00067	"	0.166	<0.000585	71	30-130			
Surrogate: 4-Terphenyl-d14	50.7		"	0.331	156	50.7	33-122			
Surrogate: 2-Fluorobiphenyl	39.8		"	0.331	188	39.8	33-115			
Surrogate: Nitrobenzene-d5	62.2		"	0.331	260	62.2	29-110			

LCS (LCS-L785016)

Prepared: 11/19/2024 Analyzed: 11/21/2024

Pyrene	0.124	0.00067	mg/Kg	0.167		74.2	30-130			
Benzo(a)pyrene	0.127	0.00067	"	0.167		76	30-130			
Benzo(b)fluoranthene	0.125	0.00067	"	0.167		74.8	30-130			
Benzo(k)fluoranthene	0.141	0.00067	"	0.167		84.4	30-130			
Dibenz(a,h)anthracene	0.163	0.00067	"	0.167		97.6	30-130			
Fluorene	0.109	0.00067	"	0.167		65.2	30-130			
Indeno(1,2,3-cd)pyrene	0.16	0.00067	"	0.167		95.8	30-130			
Benzo(a)anthracene	0.11	0.00067	"	0.167		65.8	30-130			
Chrysene	0.116	0.00067	"	0.167		69.4	30-130			
Naphthalene	0.0939	0.00201	"	0.167		56.2	30-130			
Acenaphthene	0.112	0.00067	"	0.167		67	30-130			
2-Methylnaphthalene	0.142	0.00201	"	0.167		85	30-130			
1-Methylnaphthalene	0.148	0.00201	"	0.167		88.6	30-130			
Fluoranthene	0.123	0.00067	"	0.167		73.6	30-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L785016 - 3550B

LCS (LCS-L785016)

Prepared: 11/19/2024 Analyzed: 11/21/2024

Anthracene	0.138	0.00067	mg/Kg	0.167		82.6	30-130			
Surrogate: Nitrobenzene-d5	97.2		"	0.333		97.2	29-110			
Surrogate: 4-Terphenyl-d14	56.7		"	0.333		56.7	33-122			
Surrogate: 2-Fluorobiphenyl	69		"	0.333		69	33-115			

LRB (LRB-L785016)

Prepared: 11/19/2024 Analyzed: 11/21/2024

Fluorene	ND	0.00067	mg/Kg				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: Nitrobenzene-d5	67.2		"	0.333		67.2	29-110			
Surrogate: 4-Terphenyl-d14	55.2		"	0.333		55.2	33-122			
Surrogate: 2-Fluorobiphenyl	41.7		"	0.333		41.7	33-115			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

**Total Metals by 7196 A - Quality Control
Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L784801 -

DUP (L 98540-DUP)

Source: E4K0268-02

Prepared: Analyzed: 11/18/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
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MS (L 98540-MS)

Source: E4K0268-02

Prepared: Analyzed: 11/18/2024

Chromium, Hexavalent	34.2	2.5	mg/Kg	38.8	< 0.244	88	75-125			
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LCS (LCS)

Prepared: Analyzed: 11/18/2024

Chromium, Hexavalent	6.29	0.5	mg/Kg	8		79	75-125			
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LRB (LRB)

Prepared: Analyzed: 11/18/2024

Chromium, Hexavalent	ND	0.5	mg/Kg				-			
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Jen Pellegrini For Jordan A. Bynon, Project Manager



Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

**Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L784798 -

DUP (L 98533-DUP)

Source: 98533

Prepared: Analyzed: 11/18/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
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MS (L 98533-MS)

Source: 98533

Prepared: Analyzed: 11/18/2024

Chromium, Hexavalent	29.7	2.5	mg/Kg	39.1	< 0.244	76	75-125			
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LCS (LCS)

Prepared: Analyzed: 11/18/2024

Chromium, Hexavalent	6.29	0.5	mg/Kg	8		79	75-125			
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LRB (LRB)

Prepared: Analyzed: 11/18/2024

Chromium, Hexavalent	ND	0.5	mg/Kg			-				
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Jen Pellegrini For Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - McDonald 2-4A Wellhead

Notes and Definitions

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

Origins Laboratory



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