

ORIGINS LABORATORY

Absaroka
Joel Mason
112 High St.

Buffalo WY 82834

February 18, 2025

Project Name - Citation - McCormick 24-3 #6

Project Number - CIT.CO.1055

Attached are your analytical results for Citation - McCormick 24-3 #6 received by Origins Laboratory January 31, 2025. This project is associated with Origins project number E5A0735-01.

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

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MC24-3#6_SD01@6"	E5A0735-01	Soil	January 29, 2025 12:50	01/31/2025 15:20
MC24-3#6_SD02@6"	E5A0735-02	Soil	January 29, 2025 12:52	01/31/2025 15:20
MC24-3#6_SD03@6"	E5A0735-03	Soil	January 29, 2025 12:54	01/31/2025 15:20
MC24-3#6_SD04@6"	E5A0735-04	Soil	January 29, 2025 12:56	01/31/2025 15:20
MC24-3#6_SD05@6"	E5A0735-05	Soil	January 29, 2025 12:57	01/31/2025 15:20
MC24-3#6_SD06@6"	E5A0735-06	Soil	January 29, 2025 13:00	01/31/2025 15:20
MC24-3#6_SD07@6"	E5A0735-07	Soil	January 29, 2025 13:02	01/31/2025 15:20
MC24-3#6_SD08@6"	E5A0735-08	Soil	January 29, 2025 13:04	01/31/2025 15:20
MC24-3#6_SD09@6"	E5A0735-09	Soil	January 29, 2025 13:06	01/31/2025 15:20
MC24-3#6_SD10@6"	E5A0735-10	Soil	January 29, 2025 13:13	01/31/2025 15:20
MC24-3#6_SD11@6"	E5A0735-11	Soil	January 29, 2025 13:15	01/31/2025 15:20
MC24-3#6_SD12@6"	E5A0735-12	Soil	January 29, 2025 13:18	01/31/2025 15:20
MC24-3#6_SD13@6"	E5A0735-13	Soil	January 29, 2025 13:20	01/31/2025 15:20
MC24-3#6_SD14@6"	E5A0735-14	Soil	January 29, 2025 13:21	01/31/2025 15:20

Origins Laboratory

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Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MC24-3#6_SD15@6"	E5A0735-15	Soil	January 29, 2025 13:23	01/31/2025 15:20
MC24-3#6_SD16@6"	E5A0735-16	Soil	January 29, 2025 13:25	01/31/2025 15:20
MC24-3#6_SD17@6"	E5A0735-17	Soil	January 29, 2025 13:27	01/31/2025 15:20
MC24-3#6_SD18@6"	E5A0735-18	Soil	January 29, 2025 13:32	01/31/2025 15:20
MC24-3#6_SD19@6"	E5A0735-19	Soil	January 29, 2025 13:33	01/31/2025 15:20
MC24-3#6_SD20@6"	E5A0735-20	Soil	January 29, 2025 13:35	01/31/2025 15:20
MC24-3#6_SD21@6"	E5A0735-21	Soil	January 29, 2025 13:37	01/31/2025 15:20
MC24-3#6_SD22@6"	E5A0735-22	Soil	January 29, 2025 13:38	01/31/2025 15:20
MC24-3#6_SD23@6"	E5A0735-23	Soil	January 29, 2025 13:41	01/31/2025 15:20
MC24-3#6_SD24@6"	E5A0735-24	Soil	January 29, 2025 13:43	01/31/2025 15:20
MC24-3#6_SD25@6"	E5A0735-25	Soil	January 29, 2025 13:45	01/31/2025 15:20
MC24-3#6_SD26@6"	E5A0735-26	Soil	January 29, 2025 13:47	01/31/2025 15:20

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6



ESAF0935

Client: Citation Absaroka
Address: _____
Telephone Number: 307-262-9975
Email Address: joel.mason@absarokasolutions.com
Project Managers: Joel Mason
Project Name: McCormick 24-3 #6
Project Number: CIT.CO.1055
Key: W=Water
Collected By: David Sundstedt
Invoice Billing Info: On File - Absaroka Energy Solutions
SWS=Surface Water
WW=Wastewater

S=soil G=oil G=oil A=air G=Gas H=Hydrocarbon H=H2O=Silicic H=H2O=Silicic H=H2O=Silicic H=H2O=Silicic H=H2O=Silicic H=H2O=Silicic

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
						1	2	
1	MCA-3#6_S02066	1/29/2025	12:50	3	UNP	X		
2	MCA-3#6_S02066	1/29/2025	12:52	3	UNP	X		
3	MCA-3#6_S03066	1/29/2025	12:54	3	UNP	X		
4	MCA-3#6_S04066	1/29/2025	12:56	3	UNP	X		
5	MCA-3#6_S05066	1/29/2025	12:57	3	UNP	X		
6	MCA-3#6_S06066	1/29/2025	13:00	3	UNP	X		
7	MCA-3#6_S07066	1/29/2025	13:02	3	UNP	X		
8	MCA-3#6_S08066	1/29/2025	13:04	3	UNP	X		
9	MCA-3#6_S09066	1/29/2025	13:06	3	UNP	X		
10	MCA-3#6_S010066	1/29/2025	13:13	3	UNP	X		

Temp Received - Received On Ice? Yes No

Requested By: _____ Date: 1/15/25 Time: 12:00
Received By: _____ Date: 1/31/25 Time: 1:50
Turnaround Time: 48 Hr 72
 SAME DAY 24

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #8

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

Sample Receipt Checklist

Origins Work Order: CSA 0735 Client: Absaroka
 Checklist Completed by: ADJR Client Project ID: McCormick
 Date/Time Completed: 11/3/25 Shipped Via: HO
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 14.9c (Describe)
 Thermometer ID: 907

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"/>			
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 HCL, H2SO4) (pH < 2 for samples preserved with HNO3, sample integrity) (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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

2/13/28
Date/Time Reviewed

Origins Laboratory

[Signature]

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 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD01@6"
1/29/2025 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.669		0.100	mg/L	1	B5B0321	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	132		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	
Residual Range Organics (C28-C40)	1130		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	84.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.9 %		70-130			"	"	"	

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 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD01@6"
1/29/2025 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	92.0 %		70-130			B5B02 05	02/02/2025	02/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.23		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.69		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	0.0018	0.00109	0.00201	mg/Kg	1	L798297	02/05/2025	02/07/2025	J
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	0.0053	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000784	0.000286	0.00067	"	"	"	"	"	

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 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD01@6"
1/29/2025 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-01 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L798297	02/05/2025	02/07/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	0.00219	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	35.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	40.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	44.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.43			pH Units	1	B5B0329	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	4.19		0.0100	SAR	1	B5B0325	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.496		0.00500	mmhos/cm	1	B5B0329	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.63		0.271	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	123		9.36	"	"	"	"	"	

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 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD01@6"
1/29/2025 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-01 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.167		0.0936	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		9.36	"	"	"	"	"	"
Lead	19.3		0.936	"	"	"	"	"	"
Nickel	8.63		0.936	"	"	"	"	"	"
Selenium	ND		0.243	"	"	"	"	"	"
Silver	ND		0.0936	"	"	"	"	"	"
Zinc	36.3		34.6	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799175	01/29/2025	02/10/2025	
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Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD02@6"
1/29/2025 12:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.529		0.0993	mg/L	1	B5B0321	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	43.6		25.0	mg/kg	1	B5B0307	02/03/2025	02/05/2025	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	0.241		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.2 %		70-130			"	"	"	

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MC24-3#6 SD02@6"
1/29/2025 12:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.2 %		70-130			B5B02 05	02/02/2025	02/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.83		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.877		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	0.00969	0.00109	0.00201	mg/Kg	1	L798297	02/05/2025	02/07/2025	
2-Methylnaphthalene	0.0129	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	0.00202	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00279	0.000286	0.00067	"	"	"	"	"	

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 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD02@6"
1/29/2025 12:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-02 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L798297	02/05/2025	02/07/2025	
Naphthalene	0.00214	0.00145	0.00201	"	"	"	"	"	"
Pyrene	0.00175	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	36.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	45.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	38.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B5B0329	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.835		0.0100	SAR	1	B5B0325	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.370		0.00500	mmhos/cm	1	B5B0329	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.85		0.284	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	95.4		9.81	"	"	"	"	"	

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Joel Mason
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 Project: Citation - McCormick 24-3 #8

MC24-3#6 SD02@6"
1/29/2025 12:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-02 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.123		0.0981	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		9.81	"	"	"	"	"	"
Lead	10.2		0.981	"	"	"	"	"	"
Nickel	6.42		0.981	"	"	"	"	"	"
Selenium	ND		0.255	"	"	"	"	"	"
Silver	ND		0.0981	"	"	"	"	"	"
Zinc	ND		36.3	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799175	01/29/2025	02/10/2025	
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Origins Laboratory

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



Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD03@6"
1/29/2025 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.243		0.100	mg/L	1	B5B0321	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.6 %		70-130			"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD03@6"
1/29/2025 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	89.7 %		70-130			B5B02 05	02/02/2025	02/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.69		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798297	02/05/2025	02/07/2025	
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	"	"	"	"	"	

Origins Laboratory

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Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD03@6"
1/29/2025 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-03 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L798297	02/05/2025	02/07/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	35.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	51.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	33.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B5B0329	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0497		0.0100	SAR	1	B5B0325	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.249		0.00500	mmhos/cm	1	B5B0329	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.87		0.276	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	84.4		9.53	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD03@6"
1/29/2025 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-03 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.138		0.0953	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		9.53	"	"	"	"	"	"
Lead	10.3		0.953	"	"	"	"	"	"
Nickel	6.55		0.953	"	"	"	"	"	"
Selenium	0.256		0.248	"	"	"	"	"	"
Silver	ND		0.0953	"	"	"	"	"	"
Zinc	ND		35.3	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799175	01/29/2025	02/10/2025	
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Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD04@6"
1/29/2025 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.302		0.0999	mg/L	1	B5B0321	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.1 %		70-130			"	"	"	

Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD04@6"
1/29/2025 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.7 %		70-130			B5B02 05	02/02/2025	02/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	2.16		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	0.00213	0.00109	0.00201	mg/Kg	1	L798297	02/05/2025	02/07/2025	
2-Methylnaphthalene	0.00282	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	0.000659	0.000585	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000507	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.000614	0.000286	0.00067	"	"	"	"	"	J

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD04@6"
1/29/2025 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-04 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L798297	02/05/2025	02/07/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	40.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	56.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B5B0329	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0476		0.0100	SAR	1	B5B0325	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.307		0.00500	mmhos/cm	1	B5B0329	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.40		0.248	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	139		8.54	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #8

MC24-3#6 SD04@6"
1/29/2025 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.210		0.0854	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		8.54	"	"	"	"	"	"
Lead	8.96		0.854	"	"	"	"	"	"
Nickel	8.54		0.854	"	"	"	"	"	"
Selenium	0.235		0.222	"	"	"	"	"	"
Silver	ND		0.0854	"	"	"	"	"	"
Zinc	35.9		31.6	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	2.5	2.5	mg/Kg	5	L799175	01/29/2025	02/10/2025	J
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Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD05@6"
1/29/2025 12:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.987	mg/L	10	B5B0321	02/03/2025	02/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
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Origins Laboratory



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD05@6"
1/29/2025 12:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.6 %		70-130			B5B02 05	02/02/2025	02/03/2025	
Surrogate: 4-Bromofluorobenzene	89.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	20.2		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	5.94		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798297	02/05/2025	02/07/2025	
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	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD05@6"
1/29/2025 12:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-05 (Soil)

PAH BY 8270D

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L798297	02/05/2025	02/07/2025	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	38.1 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	66.8 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	53.5 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	7.93			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.117		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.83		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	19.2		0.258	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
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Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD05@6"
1/29/2025 12:57:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-05 (Soil)

Table 915 metals by EPA 6020B

Barium	490		8.88	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Cadmium	0.449		0.0888	"	"	"	"	"	
Copper	ND		8.88	"	"	"	"	"	
Lead	23.4		0.888	"	"	"	"	"	
Nickel	13.6		0.888	"	"	"	"	"	
Selenium	0.494		0.231	"	"	"	"	"	
Silver	ND		0.0888	"	"	"	"	"	
Zinc	39.0		32.9	"	"	"	"	"	

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799176	01/29/2025	02/10/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD06@6"
1/29/2025 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.354		0.101	mg/L	1	B5B0321	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.5 %		70-130			"	"	"	

Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD06@6"
1/29/2025 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.8 %		70-130			B5B02 05	02/02/2025	02/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	2.54		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	0.00158	0.00109	0.00201	mg/Kg	1	L798297	02/05/2025	02/07/2025	J
2-Methylnaphthalene	0.00209	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	0.00081	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000397	0.000286	0.00067	"	"	"	"	"	J

Origins Laboratory



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD06@6"
1/29/2025 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-06 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L798297	02/05/2025	02/07/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.000908	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	39 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	50.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	29.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.00			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0243		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.375		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.82		0.254	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	98.1		8.77	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD06@6"
1/29/2025 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-06 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.269		0.0877	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		8.77	"	"	"	"	"	
Lead	13.7		0.877	"	"	"	"	"	
Nickel	8.24		0.877	"	"	"	"	"	
Selenium	0.288		0.228	"	"	"	"	"	
Silver	ND		0.0877	"	"	"	"	"	
Zinc	41.0		32.5	"	"	"	"	"	

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	2.5	2.5	mg/Kg	5	L799176	01/29/2025	02/10/2025	J
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Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD07@6"
1/29/2025 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.996	mg/L	10	B5B0321	02/03/2025	02/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
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Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD07@6"
1/29/2025 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.8 %		70-130			B5B02 05	02/02/2025	02/03/2025	
Surrogate: 4-Bromofluorobenzene	94.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.691		0.499	meq/L	10	[CALC]	02/06/2025	02/10/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	0.00113	0.00109	0.00201	mg/Kg	1	L798297	02/05/2025	02/07/2025	J
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	0.000795	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	0.000706	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD07@6"
1/29/2025 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-07 (Soil)

PAH BY 8270D

Fluorene	0.000326	0.000286	0.00067	mg/Kg	1	L798297	02/05/2025	02/07/2025	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	0.000917	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	37.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	53.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	34.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.70			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0691		0.0100	SAR	1	B5B0652	02/06/2025	02/10/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.280		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.62		0.279	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD07@6"
1/29/2025 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-07 (Soil)

Table 915 metals by EPA 6020B

Barium	92.3		9.61	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Cadmium	0.303		0.0961	"	"	"	"	"	
Copper	ND		9.61	"	"	"	"	"	
Lead	11.0		0.961	"	"	"	"	"	
Nickel	6.70		0.961	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0961	"	"	"	"	"	
Zinc	45.2		35.6	"	"	"	"	"	

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	2.5	2.5	mg/Kg	5	L799176	01/29/2025	02/10/2025	J
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Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD08@6"
1/29/2025 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.987	mg/L	10	B5B0321	02/03/2025	02/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 77.4% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102% 70-130 " " "

Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD08@6"
1/29/2025 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.2 %		70-130			B5B02 05	02/02/2025	02/03/2025	
Surrogate: 4-Bromofluorobenzene	91.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.726		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798465	02/06/2025	02/06/2025	
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	0.000623	0.000394	0.00067	"	"	"	"	"	J

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD08@6"
1/29/2025 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-08 (Soil)

PAH BY 8270D

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L798465	02/06/2025	02/06/2025	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.000649	0.000643	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	34.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	48.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	43.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.75			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.105		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.221		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.54		0.261	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD08@6"
1/29/2025 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-08 (Soil)

Table 915 metals by EPA 6020B

Barium	92.7		9.01	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Cadmium	0.310		0.0901	"	"	"	"	"	
Copper	ND		9.01	"	"	"	"	"	
Lead	10.7		0.901	"	"	"	"	"	
Nickel	6.77		0.901	"	"	"	"	"	
Selenium	0.340		0.234	"	"	"	"	"	
Silver	ND		0.0901	"	"	"	"	"	
Zinc	45.5		33.3	"	"	"	"	"	

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	2.5	2.5	mg/Kg	5	L799176	01/29/2025	02/10/2025	J
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Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD09@6"
1/29/2025 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		1.00	mg/L	10	B5B0321	02/03/2025	02/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
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Origins Laboratory



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD09@6"
1/29/2025 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.4 %		70-130			B5B02 05	02/02/2025	02/03/2025	
Surrogate: 4-Bromofluorobenzene	89.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.832		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798465	02/06/2025	02/06/2025	
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	0.000664	0.000394	0.00067	"	"	"	"	"	J

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD09@6"
1/29/2025 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-09 (Soil)

PAH BY 8270D

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L798465	02/06/2025	02/06/2025	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	0.000755	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	35.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	48 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	36.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.16			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0458		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.246		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.25		0.287	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD09@6"
1/29/2025 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-09 (Soil)

Table 915 metals by EPA 6020B

Barium	117		9.90	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Cadmium	0.394		0.0990	"	"	"	"	"	
Copper	ND		9.90	"	"	"	"	"	
Lead	13.7		0.990	"	"	"	"	"	
Nickel	8.42		0.990	"	"	"	"	"	
Selenium	0.278		0.257	"	"	"	"	"	
Silver	ND		0.0990	"	"	"	"	"	
Zinc	52.3		36.6	"	"	"	"	"	

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	2.5	2.5	mg/Kg	5	L799176	01/29/2025	02/10/2025	J
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Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD10@6"
1/29/2025 1:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.599		0.101	mg/L	1	B5B0321	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	162		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	
Residual Range Organics (C28-C40)	175		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	78.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0274		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	
1,3,5-Trimethylbenzene	0.00368		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00758		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.21		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.0 %		70-130			"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD10@6"
1/29/2025 1:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-10 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.82		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	17.7		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	0.0736	0.00109	0.00201	mg/Kg	1	L798465	02/06/2025	02/06/2025	
2-Methylnaphthalene	0.0798	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	0.00942	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0133	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	0.0113	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00469	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	51.1 %		33-115						

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Absaroka
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 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD10@6"
1/29/2025 1:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-10 (Soil)

PAH BY 8270D

Surrogate: 4-Terphenyl-d14	54.1 %		33-122			L7984 65	02/06/2025	02/06/2025	
Surrogate: Nitrobenzene-d5	49.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.35			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	16.4		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.16		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.60		0.271	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	134		9.33	"	"	"	"	"	
Cadmium	0.121		0.0933	"	"	"	"	"	
Copper	ND		9.33	"	"	"	"	"	
Lead	9.40		0.933	"	"	"	"	"	
Nickel	8.16		0.933	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0933	"	"	"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD10@6"
1/29/2025 1:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-10 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND		34.5	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
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TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799176	01/29/2025	02/10/2025	
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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD11@6"
1/29/2025 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.495		0.0984	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	43.7		25.0	mg/kg	1	B5B0307	02/03/2025	02/05/2025	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	0.588		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.1 %		70-130			"	"	"	

Origins Laboratory

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 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD11@6"
1/29/2025 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-11 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	88.4 %		70-130			B5B02 05	02/02/2025	02/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	3.12		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.63		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	0.0129	0.00109	0.00201	mg/Kg	1	L798465	02/06/2025	02/06/2025	
2-Methylnaphthalene	0.0167	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	0.00222	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000442	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.00363	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00176	0.000627	0.00067	"	"	"	"	"	

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Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD11@6"
1/29/2025 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-11 (Soil)

PAH BY 8270D

Naphthalene	0.0033	0.00145	0.00201	mg/Kg	1	L798465	02/06/2025	02/06/2025	
Pyrene	0.00173	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	34.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	53.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	34 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	1.18		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.607		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.88		0.257	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	116		8.86	"	"	"	"	"	
Cadmium	0.165		0.0886	"	"	"	"	"	

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD11@6"
1/29/2025 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-11 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.86	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Lead	20.4		0.886	"	"	"	"	"	
Nickel	8.53		0.886	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.0886	"	"	"	"	"	
Zinc	34.9		32.8	"	"	"	"	"	

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799176	01/29/2025	02/10/2025	
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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD12@6"
1/29/2025 1:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.454		0.0983	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	99.8		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	
Residual Range Organics (C28-C40)	146		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	85.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.6 %		70-130			"	"	"	

Origins Laboratory



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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD12@6"
1/29/2025 1:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-12 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.3 %	70-130	B5B02 05	02/02/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	2.12	0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH BY 8270D

1-Methylnaphthalene	0.00346	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025
2-Methylnaphthalene	0.00472	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	0.000895	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.000715	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000486	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00098	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00126	0.000627	0.00067	"	"	"	"	"

Origins Laboratory

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Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD12@6"
1/29/2025 1:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-12 (Soil)

PAH BY 8270D

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Pyrene	0.000837	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	44.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	52.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0275		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.343		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.01		0.251	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	106		8.67	"	"	"	"	"	
Cadmium	0.406		0.0867	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD12@6"
1/29/2025 1:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-12 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.67	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Lead	16.9		0.867	"	"	"	"	"	
Nickel	8.24		0.867	"	"	"	"	"	
Selenium	0.348		0.225	"	"	"	"	"	
Silver	ND		0.0867	"	"	"	"	"	
Zinc	48.5		32.1	"	"	"	"	"	

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799176	01/29/2025	02/10/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD13@6"
1/29/2025 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.419		0.0993	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	86.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.3 %		70-130			"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD13@6"
1/29/2025 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-13 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	91.0 %		70-130			B5B02 05	02/02/2025	02/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.80		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	0.00247	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025	
2-Methylnaphthalene	0.00307	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	0.000585	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000978	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000763	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000693	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000499	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	0.00124	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory

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Absaroka
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Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD13@6"
1/29/2025 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-13 (Soil)

PAH BY 8270D

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Pyrene	0.000842	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	44.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	52 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0473		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.264		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.22		0.249	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	98.3		8.59	"	"	"	"	"	
Cadmium	0.300		0.0859	"	"	"	"	"	

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Absaroka
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 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD13@6"
1/29/2025 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-13 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.59	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Lead	14.1		0.859	"	"	"	"	"	"
Nickel	8.27		0.859	"	"	"	"	"	"
Selenium	0.297		0.223	"	"	"	"	"	"
Silver	ND		0.0859	"	"	"	"	"	"
Zinc	41.0		31.8	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	1	1	mg/Kg	2	L799176	01/29/2025	02/10/2025	J
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Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD14@6"
1/29/2025 1:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-14 (Soil)

Boron (DTPA Sorbitol)

Boron	0.342		0.0983	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	58.1		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00234		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	
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	0.288		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	88.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.9 %		70-130			"	"	"	

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Absaroka
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Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD14@6"
1/29/2025 1:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-14 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	91.6 %	70-130	B5B02 05	02/02/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	2.17	0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH BY 8270D

1-Methylnaphthalene	0.0359	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025
2-Methylnaphthalene	0.0488	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00176	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000598	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00114	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0025	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00113	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00696	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00107	0.000627	0.00067	"	"	"	"	"

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD14@6"
1/29/2025 1:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-14 (Soil)

PAH BY 8270D

Naphthalene	0.0103	0.00145	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Pyrene	0.00225	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	43.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	53 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.20			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0294		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.282		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.64		0.263	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	88.5		9.07	"	"	"	"	"	
Cadmium	0.226		0.0907	"	"	"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD14@6"
1/29/2025 1:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-14 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.07	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Lead	23.9		0.907	"	"	"	"	"	"
Nickel	7.56		0.907	"	"	"	"	"	"
Selenium	ND		0.236	"	"	"	"	"	"
Silver	ND		0.0907	"	"	"	"	"	"
Zinc	33.5		33.5	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799176	01/29/2025	02/10/2025	
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Origins Laboratory



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD15@6"
1/29/2025 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-15 (Soil)

Boron (DTPA Sorbitol)

Boron	0.267		0.0984	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	87.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.5 %		70-130			"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD15@6"
1/29/2025 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-15 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.2 %	70-130	B5B02 05	02/02/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	1.86	0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025
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	0.000599	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	"	"	"	"	"

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD15@6"
1/29/2025 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-15 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	0.00098	0.000627	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	44.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	55.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0210		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.290		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.63		0.265	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	77.4		9.13	"	"	"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #8

MC24-3#6 SD15@6"
1/29/2025 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-15 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.208		0.0913	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		9.13	"	"	"	"	"	"
Lead	10.6		0.913	"	"	"	"	"	"
Nickel	6.53		0.913	"	"	"	"	"	"
Selenium	ND		0.237	"	"	"	"	"	"
Silver	ND		0.0913	"	"	"	"	"	"
Zinc	ND		33.8	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799181	01/29/2025	02/10/2025	
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Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD16@6"
1/29/2025 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-16 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.998	mg/L	10	B5B0322	02/03/2025	02/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	86.8 %		70-130			"	"	"	
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Origins Laboratory



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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD16@6"
1/29/2025 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-16 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.0 %		70-130			B5B02 05	02/02/2025	02/03/2025	
Surrogate: 4-Bromofluorobenzene	89.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.716		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	0.00221	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025	
2-Methylnaphthalene	0.00278	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	0.000707	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000832	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000468	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.000614	0.000286	0.00067	"	"	"	"	"	J

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD16@6"
1/29/2025 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-16 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	47.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	54.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.39			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0516		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.124		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.80		0.273	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	80.8		9.43	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #8

MC24-3#6 SD16@6"
1/29/2025 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-16 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.144		0.0943	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		9.43	"	"	"	"	"	"
Lead	7.70		0.943	"	"	"	"	"	"
Nickel	5.49		0.943	"	"	"	"	"	"
Selenium	ND		0.245	"	"	"	"	"	"
Silver	ND		0.0943	"	"	"	"	"	"
Zinc	ND		34.9	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799181	01/29/2025	02/10/2025	
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Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD17@6"
1/29/2025 1:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-17 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.990	mg/L	10	B5B0322	02/03/2025	02/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.5 %		70-130			"	"	"	
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Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD17@6"
1/29/2025 1:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-17 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.9 %		70-130			B5B0205	02/02/2025	02/03/2025	
Surrogate: 4-Bromofluorobenzene	90.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.615		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025	
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	0.000507	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.00109	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00129	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000636	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.000309	0.000286	0.00067	"	"	"	"	"	J

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD17@6"
1/29/2025 1:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-17 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	0.00174	0.000627	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	0.000645	0.000643	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	43.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	49.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.22			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0586		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.176		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.89		0.279	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	116		9.60	"	"	"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #8

MC24-3#6 SD17@6"
1/29/2025 1:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-17 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.333		0.0960	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		9.60	"	"	"	"	"	"
Lead	14.0		0.960	"	"	"	"	"	"
Nickel	8.05		0.960	"	"	"	"	"	"
Selenium	0.311		0.250	"	"	"	"	"	"
Silver	ND		0.0960	"	"	"	"	"	"
Zinc	52.2		35.5	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	2.5	2.5	mg/Kg	5	L799181	01/29/2025	02/10/2025	J
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Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD18@6"
1/29/2025 1:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-18 (Soil)

Boron (DTPA Sorbitol)

Boron	0.171		0.0992	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.3 %		70-130			"	"	"	

Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD18@6"
1/29/2025 1:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-18 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	88.8 %	70-130	B5B02 05	02/02/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	0.738	0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.445	0.435	"	"	"	"	"

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025
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	"	"	"	"	"

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD18@6"
1/29/2025 1:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-18 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.675		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.143		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.51		0.267	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	82.7		9.22	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD18@6"
1/29/2025 1:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-18 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND		0.0922	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		9.22	"	"	"	"	"	"
Lead	5.33		0.922	"	"	"	"	"	"
Nickel	6.14		0.922	"	"	"	"	"	"
Selenium	ND		0.240	"	"	"	"	"	"
Silver	ND		0.0922	"	"	"	"	"	"
Zinc	ND		34.1	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799181	01/29/2025	02/10/2025	
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Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD19@6"
1/29/2025 1:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-19 (Soil)

Boron (DTPA Sorbitol)

Boron	1.12		0.0997	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	86.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.6 %		70-130			"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD19@6"
1/29/2025 1:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-19 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	89.2 %		70-130			B5B02 05	02/02/2025	02/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	16.2		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	2.15		0.823	"	"	"	"	"	
Sodium	15.0		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	0.00111	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025	J
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	0.000738	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	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD19@6"
1/29/2025 1:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-19 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	0.00109	0.000627	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	0.000992	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	54.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.16			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	4.96		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.76		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.32		0.246	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	120		8.49	"	"	"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD19@6"
1/29/2025 1:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-19 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.150		0.0849	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		8.49	"	"	"	"	"	"
Lead	9.96		0.849	"	"	"	"	"	"
Nickel	6.92		0.849	"	"	"	"	"	"
Selenium	ND		0.221	"	"	"	"	"	"
Silver	ND		0.0849	"	"	"	"	"	"
Zinc	33.2		31.4	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799181	01/29/2025	02/10/2025	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD20@6"
1/29/2025 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-20 (Soil)

Boron (DTPA Sorbitol)

Boron	0.416		0.0992	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0307	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0205	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.2 %		70-130			"	"	"	

Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD20@6"
1/29/2025 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-20 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.7 %	70-130	B5B02 05	02/02/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	1.73	0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025
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	0.000915	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.000827	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	"	"	"	"	"

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD20@6"
1/29/2025 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-20 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.97			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0571		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.274		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.51		0.264	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Barium	86.0		9.11	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #8

MC24-3#6 SD20@6"
1/29/2025 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-20 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.154		0.0911	mg/kg	10	B5B0311	02/03/2025	02/04/2025	
Copper	ND		9.11	"	"	"	"	"	"
Lead	19.6		0.911	"	"	"	"	"	"
Nickel	5.32		0.911	"	"	"	"	"	"
Selenium	ND		0.237	"	"	"	"	"	"
Silver	ND		0.0911	"	"	"	"	"	"
Zinc	ND		33.7	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799181	01/29/2025	02/10/2025	
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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD21@6"
1/29/2025 1:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-21 (Soil)

Boron (DTPA Sorbitol)

Boron	0.399		0.100	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0308	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.1 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0203	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130	"	"	"	"	"	
Surrogate: Toluene-d8	107 %		70-130	"	"	"	"	"	

Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD21@6"
1/29/2025 1:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-21 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	92.1 %		70-130			B5B02 03	02/02/2025	02/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	2.77		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025	
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	0.000722	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	0.000508	0.000394	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD21@6"
1/29/2025 1:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-21 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	43.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	52.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.06			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0367		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.347		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.94		0.257	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Barium	125		8.85	"	"	"	"	"	

Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #8

MC24-3#6 SD21@6"
1/29/2025 1:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-21 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.343		0.0885	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Copper	10.3		8.85	"	"	"	"	"	
Lead	15.6		0.885	"	"	"	"	"	
Nickel	9.31		0.885	"	"	"	"	"	
Selenium	0.334		0.230	"	"	"	"	"	
Silver	ND		0.0885	"	"	"	"	"	
Zinc	40.3		32.7	"	"	"	"	"	

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799181	01/29/2025	02/10/2025	
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Origins Laboratory



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD22@6"
1/29/2025 1:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-22 (Soil)

Boron (DTPA Sorbitol)

Boron	0.389		0.0993	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0308	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0203	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD22@6"
1/29/2025 1:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-22 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	92.2 %	70-130	B5B02 03	02/02/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	2.28	0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00116	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00207	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00238	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000641	0.000437	0.00067	"	"	"	"	"
Chrysene	0.000834	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00126	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00228	0.000627	0.00067	"	"	"	"	"

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD22@6"
1/29/2025 1:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-22 (Soil)

PAH BY 8270D

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Pyrene	0.00134	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	40 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	50.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0156		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.329		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.48		0.269	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Barium	108		9.28	"	"	"	"	"	
Cadmium	0.269		0.0928	"	"	"	"	"	

Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD22@6"
1/29/2025 1:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-22 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.28	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Lead	14.9		0.928	"	"	"	"	"	"
Nickel	8.52		0.928	"	"	"	"	"	"
Selenium	0.322		0.241	"	"	"	"	"	"
Silver	ND		0.0928	"	"	"	"	"	"
Zinc	40.3		34.3	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799181	01/29/2025	02/10/2025	
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Origins Laboratory



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD23@6"
1/29/2025 1:41:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-23 (Soil)

Boron (DTPA Sorbitol)

Boron	0.208		0.0981	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0308	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0203	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
Surrogate: Toluene-d8	108 %		70-130			"	"	"	

Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD23@6"
1/29/2025 1:41:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-23 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	91.6 %	70-130	B5B02 03	02/02/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	1.80	0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025
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	"	"	"	"	"

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD23@6"
1/29/2025 1:41:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-23 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	0.000958	0.000627	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	39.8 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	52.6 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	46.2 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.20			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0160		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.279		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.81		0.272	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Barium	73.8		9.37	"	"	"	"	"	"

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD23@6"
1/29/2025 1:41:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-23 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.196		0.0937	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Copper	ND		9.37	"	"	"	"	"	"
Lead	11.1		0.937	"	"	"	"	"	"
Nickel	6.36		0.937	"	"	"	"	"	"
Selenium	0.251		0.244	"	"	"	"	"	"
Silver	ND		0.0937	"	"	"	"	"	"
Zinc	ND		34.7	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799369	01/29/2025	02/11/2025	
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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD24@6"
1/29/2025 1:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-24 (Soil)

Boron (DTPA Sorbitol)

Boron	0.298		0.0991	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0308	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0203	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	111 %		70-130			"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD24@6"
1/29/2025 1:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-24 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.7 %	70-130	B5B02 03	02/02/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	1.27	0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025
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	0.000357	0.000286	0.00067	"	"	"	"	"

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD24@6"
1/29/2025 1:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-24 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	38.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	52.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	42 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.19			pH Units	1	B5B0330	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0221		0.0100	SAR	1	B5B0326	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.192		0.00500	mmhos/cm	1	B5B0330	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.62		0.268	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Barium	71.0		9.23	"	"	"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #8

MC24-3#6 SD24@6"
1/29/2025 1:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-24 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.116		0.0923	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Copper	ND		9.23	"	"	"	"	"	"
Lead	8.04		0.923	"	"	"	"	"	"
Nickel	6.49		0.923	"	"	"	"	"	"
Selenium	ND		0.240	"	"	"	"	"	"
Silver	ND		0.0923	"	"	"	"	"	"
Zinc	ND		34.2	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799181	01/29/2025	02/10/2025	
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112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD25@6"
1/29/2025 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-25 (Soil)

Boron (DTPA Sorbitol)

Boron	0.153		0.0993	mg/L	1	B5B0322	02/03/2025	02/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0308	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.0 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0203	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130	"	"	"	"	"	
Surrogate: Toluene-d8	111 %		70-130	"	"	"	"	"	

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Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD25@6"
1/29/2025 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E5A0735-25 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.0 %	70-130	B5B02 03	02/02/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	0.576	0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025
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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Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD25@6"
1/29/2025 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-25 (Soil)

PAH BY 8270D

Indeno(1,2,3-cd)pyrene	0.000945	0.000627	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	43.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	54.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.19			pH Units	1	B5B0331	02/03/2025	02/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0808		0.0100	SAR	1	B5B0327	02/03/2025	02/06/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.187		0.00500	mmhos/cm	1	B5B0331	02/03/2025	02/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.40		0.264	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Barium	75.4		9.11	"	"	"	"	"	

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD25@6"
1/29/2025 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-25 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.178		0.0911	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Copper	ND		9.11	"	"	"	"	"	"
Lead	8.34		0.911	"	"	"	"	"	"
Nickel	6.31		0.911	"	"	"	"	"	"
Selenium	0.262		0.237	"	"	"	"	"	"
Silver	ND		0.0911	"	"	"	"	"	"
Zinc	ND		33.7	"	"	"	"	"	"

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L799369	01/29/2025	02/11/2025	
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Absaroka
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Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD26@6"
1/29/2025 1:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-26 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		1.01	mg/L	10	B5B0302	02/03/2025	02/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0308	02/03/2025	02/04/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0203	02/02/2025	02/03/2025	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.4 %		70-130			"	"	"	
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Absaroka
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Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD26@6"
1/29/2025 1:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-26 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	113 %		70-130			B5B02 03	02/02/2025	02/03/2025	
Surrogate: 4-Bromofluorobenzene	92.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/03/2025	02/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH BY 8270D

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L798711	02/07/2025	02/10/2025	
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	0.000968	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	0.000746	0.000394	0.00067	"	"	"	"	"	

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Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

MC24-3#6 SD26@6"
1/29/2025 1:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
E5A0735-26 (Soil)

PAH BY 8270D

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L798711	02/07/2025	02/10/2025	
Indeno(1,2,3-cd)pyrene	0.00113	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.000784	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.52			pH Units	1	B5B0306	02/03/2025	02/04/2025	
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SAR by 20B Saturated Paste

SAR	0.0911		0.0100	SAR	1	B5B0304	02/03/2025	02/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.173		0.00500	mmhos/cm	1	B5B0306	02/03/2025	02/04/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.85		0.283	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
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Absaroka
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Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

MC24-3#6 SD26@6"
1/29/2025 1:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0735-26 (Soil)

Table 915 metals by EPA 6020B

Barium	87.5		9.75	mg/kg	10	B5B0312	02/03/2025	02/04/2025	
Cadmium	0.268		0.0975	"	"	"	"	"	
Copper	ND		9.75	"	"	"	"	"	
Lead	9.82		0.975	"	"	"	"	"	
Nickel	6.32		0.975	"	"	"	"	"	
Selenium	ND		0.254	"	"	"	"	"	
Silver	ND		0.0975	"	"	"	"	"	
Zinc	ND		36.1	"	"	"	"	"	

TOTAL METALS BY 7196A

Chromium, Hexavalent	ND	2.5	2.5	mg/Kg	5	L799369	01/29/2025	02/11/2025	J
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Absaroka
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Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #8

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 B5B0203 - EPA 5030 (soil)

Blank (B5B0203-BLK1)

Prepared: 02/02/2025 Analyzed: 02/02/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.1	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.6	70-130			

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Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #8

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 B5B0203 - EPA 5030 (soil)

LCS (B5B0203-BS1)

Prepared: 02/02/2025 Analyzed: 02/02/2025

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.0969	0.00200	"	0.100		96.9	70-130			
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Toluene	0.0975	0.00200	"	0.100		97.5	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.232	0.00400	"	0.200		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	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

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

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 B5B0203 - EPA 5030 (soil)

Matrix Spike (B5B0203-MS1)

Source: E5A0709-01

Prepared: 02/02/2025 Analyzed: 02/02/2025

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Benzene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130			
Toluene	0.0908	0.00200	"	0.100	ND	90.8	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.224	0.00400	"	0.200	0.000780	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

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 B5B0203 - EPA 5030 (soil)

Matrix Spike Dup (B5B0203-MSD1)

Source: E5A0709-01

Prepared: 02/02/2025 Analyzed: 02/02/2025

1,2,4-Trimethylbenzene	0.0939	0.00200	mg/kg	0.100	ND	93.9	70-130	6.75	20	
1,3,5-Trimethylbenzene	0.0994	0.00200	"	0.100	ND	99.4	70-130	8.13	20	
Benzene	0.0849	0.00200	"	0.100	ND	84.9	70-130	1.43	20	
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	11.8	20	
Toluene	0.0862	0.00200	"	0.100	ND	86.2	70-130	5.13	20	
o-Xylene	0.0950	0.00200	"	0.100	ND	95.0	70-130	9.26	20	
m,p-Xylene	0.202	0.00400	"	0.200	0.000780	100	70-130	10.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #8

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 B5B0205 - EPA 5030 (soil)

Blank (B5B0205-BLK1)

Prepared: 02/02/2025 Analyzed: 02/03/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.7	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.1	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 B5B0205 - EPA 5030 (soil)

LCS (B5B0205-BS1)

Prepared: 02/02/2025 Analyzed: 02/02/2025

1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100		91.6	70-130			
1,3,5-Trimethylbenzene	0.0901	0.00200	"	0.100		90.1	70-130			
Benzene	0.0939	0.00200	"	0.100		93.9	70-130			
Ethylbenzene	0.0873	0.00200	"	0.100		87.3	70-130			
Toluene	0.0883	0.00200	"	0.100		88.3	70-130			
o-Xylene	0.0958	0.00200	"	0.100		95.8	70-130			
m,p-Xylene	0.194	0.00400	"	0.200		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.0	70-130			

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Project: Citation - McCormick 24-3 #6

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 B5B0205 - EPA 5030 (soil)

Matrix Spike (B5B0205-MS1)

Source: E5A0735-01

Prepared: 02/02/2025 Analyzed: 02/03/2025

1,2,4-Trimethylbenzene	0.0437	0.00200	mg/kg	0.100	ND	43.7	70-130			QM-07
1,3,5-Trimethylbenzene	0.0479	0.00200	"	0.100	ND	47.9	70-130			QM-07
Benzene	0.0708	0.00200	"	0.100	ND	70.8	70-130			
Ethylbenzene	0.0681	0.00200	"	0.100	ND	68.1	70-130			QM-07
Toluene	0.0675	0.00200	"	0.100	ND	67.5	70-130			QM-07
o-Xylene	0.0634	0.00200	"	0.100	ND	63.4	70-130			QM-07
m,p-Xylene	0.132	0.00400	"	0.200	ND	65.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Project: Citation - McCormick 24-3 #8

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 B5B0205 - EPA 5030 (soil)

Matrix Spike Dup (B5B0205-MSD1)

Source: E5A0735-01

Prepared: 02/02/2025 Analyzed: 02/03/2025

1,2,4-Trimethylbenzene	0.0282	0.00200	mg/kg	0.100	ND	28.2	70-130	43.2	20	QM-07
1,3,5-Trimethylbenzene	0.0289	0.00200	"	0.100	ND	28.9	70-130	49.6	20	QM-07
Benzene	0.0655	0.00200	"	0.100	ND	65.5	70-130	7.87	20	QM-07
Ethylbenzene	0.0484	0.00200	"	0.100	ND	48.4	70-130	33.8	20	QM-07
Toluene	0.0575	0.00200	"	0.100	ND	57.5	70-130	16.1	20	QM-07
o-Xylene	0.0474	0.00200	"	0.100	ND	47.4	70-130	28.9	20	QM-07
m,p-Xylene	0.0929	0.00400	"	0.200	ND	46.5	70-130	34.5	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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
Batch B5B0307 - EPA 3550B										
Blank (B5B0307-BLK1)										
					Prepared: 02/03/2025 Analyzed: 02/04/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		105	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 B5B0307 - EPA 3550B

LCS (B5B0307-BS1)

Prepared: 02/03/2025 Analyzed: 02/05/2025

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	59		"	49.8		118	50-150			

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 Project: Citation - McCormick 24-3 #6

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0307 - EPA 3550B										
Matrix Spike (B5B0307-MS1)			Source: E5A0735-01			Prepared: 02/03/2025 Analyzed: 02/04/2025				
Diesel (C10-C28)	1080	50.0	mg/kg	1000	132	94.4	70-130			
Residual Range Organics (C28-C40)	2310	200	"	1000	1130	118	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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 Project: Citation - McCormick 24-3 #8

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0307 - EPA 3550B										
Matrix Spike Dup (B5B0307-MSD1)			Source: E5A0735-01			Prepared: 02/03/2025 Analyzed: 02/04/2025				
Diesel (C10-C28)	1180	50.0	mg/kg	1000	132	105	70-130	9.48	35	
Residual Range Organics (C28-C40)	2660	200	"	1000	1130	153	70-130	14.0	35	QM-07
Surrogate: o-Terphenyl	57		"	49.8		115	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
Batch B5B0308 - EPA 3550B										
Blank (B5B0308-BLK1)										
					Prepared: 02/03/2025 Analyzed: 02/04/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.1	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 B5B0308 - EPA 3550B

LCS (B5B0308-BS1)

Prepared: 02/03/2025 Analyzed: 02/04/2025

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	961	200	"	1000		96.1	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	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
Batch B5B0308 - EPA 3550B										
Matrix Spike (B5B0308-MS1)			Source: E5A0723-01			Prepared: 02/03/2025 Analyzed: 02/04/2025				
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	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
Batch B5B0308 - EPA 3550B										
Matrix Spike Dup (B5B0308-MSD1)			Source: E5A0723-01			Prepared: 02/03/2025 Analyzed: 02/04/2025				
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130	2.88	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	2.69	35	
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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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 B5B0311 - EPA 3050B

Blank (B5B0311-BLK1)

Prepared: 02/03/2025 Analyzed: 02/04/2025

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 (B5B0311-BS1)

Prepared: 02/03/2025 Analyzed: 02/04/2025

Arsenic	5.43	0.290	mg/kg	5.00	109	80-120
Barium	569	10.0	"	500	114	80-120
Cadmium	5.64	0.100	"	5.00	113	80-120
Copper	55.6	10.0	"	50.0	111	80-120
Lead	5.51	1.00	"	5.00	110	80-120
Nickel	5.52	1.00	"	5.00	110	80-120
Selenium	5.46	0.260	"	5.00	109	80-120
Silver	5.48	0.100	"	5.00	110	80-120
Zinc	56.4	37.0	"	50.0	113	80-120

Matrix Spike (B5B0311-MS1)

Source: E5A0735-01

Prepared: 02/03/2025 Analyzed: 02/04/2025

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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 B5B0311 - EPA 3050B

Matrix Spike (B5B0311-MS1)

Source: E5A0735-01

Prepared: 02/03/2025 Analyzed: 02/04/2025

Arsenic	8.11	0.247	mg/kg	4.26	4.63	81.7	75-125			
Barium	582	8.52	"	426	123	108	75-125			
Cadmium	4.46	0.0852	"	4.26	0.167	101	75-125			
Copper	52.6	8.52	"	42.6	5.66	110	75-125			
Lead	26.3	0.852	"	4.26	19.3	164	75-125			QM-07
Nickel	12.5	0.852	"	4.26	8.63	90.7	75-125			
Selenium	4.46	0.222	"	4.26	0.236	99.1	75-125			
Silver	4.22	0.0852	"	4.26	0.0281	98.4	75-125			
Zinc	77.9	31.5	"	42.6	36.3	97.7	75-125			

Matrix Spike Dup (B5B0311-MSD1)

Source: E5A0735-01

Prepared: 02/03/2025 Analyzed: 02/04/2025

Arsenic	8.57	0.272	mg/kg	4.70	4.63	84.1	75-125	5.59	20	
Barium	655	9.39	"	470	123	113	75-125	11.9	20	
Cadmium	5.06	0.0939	"	4.70	0.167	104	75-125	12.5	20	
Copper	58.9	9.39	"	47.0	5.66	113	75-125	11.4	20	
Lead	26.4	0.939	"	4.70	19.3	150	75-125	0.111	20	QM-07
Nickel	15.4	0.939	"	4.70	8.63	144	75-125	20.8	20	QM-07, QR-DUP
Selenium	5.03	0.244	"	4.70	0.236	102	75-125	12.0	20	
Silver	4.79	0.0939	"	4.70	0.0281	101	75-125	12.8	20	
Zinc	87.8	34.7	"	47.0	36.3	110	75-125	11.9	20	

Batch B5B0312 - EPA 3050B

Blank (B5B0312-BLK1)

Prepared: 02/03/2025 Analyzed: 02/04/2025

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

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Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B0312 - EPA 3050B

Blank (B5B0312-BLK1)

Prepared: 02/03/2025 Analyzed: 02/04/2025

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

LCS (B5B0312-BS1)

Prepared: 02/03/2025 Analyzed: 02/04/2025

Arsenic	5.59	0.290	mg/kg	5.00		112	80-120			
Barium	566	10.0	"	500		113	80-120			
Cadmium	5.53	0.100	"	5.00		111	80-120			
Copper	55.5	10.0	"	50.0		111	80-120			
Lead	5.46	1.00	"	5.00		109	80-120			
Nickel	5.67	1.00	"	5.00		113	80-120			
Selenium	5.60	0.260	"	5.00		112	80-120			
Silver	5.47	0.100	"	5.00		109	80-120			
Zinc	56.3	37.0	"	50.0		113	80-120			

Matrix Spike (B5B0312-MS1)

Source: E5A0735-21

Prepared: 02/03/2025 Analyzed: 02/04/2025

Arsenic	8.89	0.260	mg/kg	4.48	3.94	110	75-125			
Barium	630	8.96	"	448	125	113	75-125			
Cadmium	5.24	0.0896	"	4.48	0.343	109	75-125			
Copper	60.3	8.96	"	44.8	10.3	112	75-125			
Lead	24.7	0.896	"	4.48	15.6	204	75-125			QM-07
Nickel	14.5	0.896	"	4.48	9.31	115	75-125			
Selenium	5.33	0.233	"	4.48	0.334	112	75-125			
Silver	4.75	0.0896	"	4.48	0.0832	104	75-125			

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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 B5B0312 - EPA 3050B

Matrix Spike (B5B0312-MS1)

Source: E5A0735-21

Prepared: 02/03/2025 Analyzed: 02/04/2025

Zinc	89.8	33.1	mg/kg	44.8	40.3	111	75-125			
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Matrix Spike Dup (B5B0312-MSD1)

Source: E5A0735-21

Prepared: 02/03/2025 Analyzed: 02/04/2025

Arsenic	8.77	0.263	mg/kg	4.54	3.94	106	75-125	1.38	20	
Barium	637	9.09	"	454	125	113	75-125	1.17	20	
Cadmium	5.18	0.0909	"	4.54	0.343	106	75-125	1.05	20	
Copper	57.9	9.09	"	45.4	10.3	105	75-125	3.99	20	
Lead	21.0	0.909	"	4.54	15.6	119	75-125	16.2	20	
Nickel	13.9	0.909	"	4.54	9.31	101	75-125	3.97	20	
Selenium	5.28	0.236	"	4.54	0.334	109	75-125	1.01	20	
Silver	4.86	0.0909	"	4.54	0.0832	105	75-125	2.31	20	
Zinc	89.6	33.6	"	45.4	40.3	108	75-125	0.247	20	

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Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #8

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 B5B0302 - DTPA Sorbitol Preparation

Blank (B5B0302-BLK1)

Prepared: 02/03/2025 Analyzed: 02/04/2025

Boron ND 0.100 mg/L

Duplicate (B5B0302-DUP1)

Source: E5A0734-12

Prepared: 02/03/2025 Analyzed: 02/04/2025

Boron 0.0285 0.0989 mg/L 0.0223 24.5 50

Batch B5B0304 - Saturated Paste Metals

Blank (B5B0304-BLK1)

Prepared: 02/03/2025 Analyzed: 02/05/2025

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B5B0304-DUP1)

Source: E5A0734-12

Prepared: 02/03/2025 Analyzed: 02/05/2025

SAR ND 0.0100 SAR 0.372 200

Calcium PPM 53.7 10.0 mg/L 48.5 10.2 50

Magnesium PPM 7.85 10.0 " 7.04 10.9 50

Sodium PPM 6.59 10.0 " 10.5 45.4 50

Batch B5B0321 - DTPA Sorbitol Preparation

Blank (B5B0321-BLK1)

Prepared: 02/03/2025 Analyzed: 02/04/2025

Boron ND 0.100 mg/L

Duplicate (B5B0321-DUP1)

Source: E5A0735-01

Prepared: 02/03/2025 Analyzed: 02/04/2025

Boron 0.641 0.102 mg/L 0.669 4.20 50

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #8

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 B5B0322 - DTPA Sorbitol Preparation

Blank (B5B0322-BLK1)

Prepared: 02/03/2025 Analyzed: 02/04/2025

Boron ND 0.100 mg/L

Duplicate (B5B0322-DUP1)

Source: E5A0735-11

Prepared: 02/03/2025 Analyzed: 02/04/2025

Boron 0.520 0.0982 mg/L 0.495 4.99 50

Batch B5B0325 - Saturated Paste Metals

Blank (B5B0325-BLK1)

Prepared: 02/03/2025 Analyzed: 02/06/2025

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B5B0325-DUP1)

Source: E5A0724-01

Prepared: 02/03/2025 Analyzed: 02/06/2025

Calcium PPM 46.8 10.0 mg/L 47.5 1.46 50

SAR ND 0.0100 SAR 1.93 200

Magnesium PPM 19.0 10.0 mg/L 19.2 1.15 50

Sodium PPM 61.5 10.0 " 62.4 1.44 50

Batch B5B0326 - Saturated Paste Metals

Blank (B5B0326-BLK1)

Prepared: 02/03/2025 Analyzed: 02/06/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

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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 B5B0326 - Saturated Paste Metals

Duplicate (B5B0326-DUP1)

Source: E5A0735-05

Prepared: 02/03/2025 Analyzed: 02/06/2025

SAR	ND	0.0100	SAR		0.117				200	
Calcium PPM	362	10.0	mg/L		405			11.4	50	
Magnesium PPM	60.7	10.0	"		72.2			17.4	50	
Sodium PPM	10.2	10.0	"		9.74			4.81	50	

Batch B5B0327 - Saturated Paste Metals

Blank (B5B0327-BLK1)

Prepared: 02/03/2025 Analyzed: 02/06/2025

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

Duplicate (B5B0327-DUP1)

Source: E5A0735-25

Prepared: 02/03/2025 Analyzed: 02/06/2025

Calcium PPM	11.6	10.0	mg/L		11.5			0.432	50	
SAR	ND	0.0100	SAR		0.0808				200	
Magnesium PPM	3.34	10.0	mg/L		3.65			8.87	50	
Sodium PPM	0.780	10.0	"		1.23			44.8	50	

Batch B5B0652 - Saturated Paste Metals

Blank (B5B0652-BLK1)

Prepared: 02/06/2025 Analyzed: 02/10/2025

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

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 Buffalo WY 82834

Joel Mason
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 Project: Citation - McCormick 24-3 #8

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 B5B0652 - Saturated Paste Metals

Duplicate (B5B0652-DUP1)

Source: E5B0092-20

Prepared: 02/06/2025 Analyzed: 02/10/2025

SAR	ND	0.0100	SAR		2.85				200	
Calcium PPM	37.3	10.0	mg/L		42.0			11.9	50	
Magnesium PPM	9.28	10.0	"		10.5			12.0	50	
Sodium PPM	72.8	10.0	"		79.8			9.11	50	

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Project: Citation - McCormick 24-3 #8

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 B5B0306 - Saturated Paste pH/EC

Blank (B5B0306-BLK1)

Prepared: 02/03/2025 Analyzed: 02/04/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5B0306-DUP1)

Source: E5A0734-12

Prepared: 02/03/2025 Analyzed: 02/04/2025

pH 8.15 pH Units 8.10 0.615 25

Specific Conductance (EC) 0.435 0.00500 mmhos/cm 0.401 8.11 25

Batch B5B0329 - Saturated Paste pH/EC

Blank (B5B0329-BLK1)

Prepared: 02/03/2025 Analyzed: 02/05/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5B0329-DUP1)

Source: E5A0724-01

Prepared: 02/03/2025 Analyzed: 02/05/2025

Specific Conductance (EC) 0.639 0.00500 mmhos/cm 0.650 1.67 25

pH 8.09 pH Units 8.17 0.984 25

Batch B5B0330 - Saturated Paste pH/EC

Blank (B5B0330-BLK1)

Prepared: 02/03/2025 Analyzed: 02/05/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5B0330-DUP1)

Source: E5A0735-05

Prepared: 02/03/2025 Analyzed: 02/05/2025

pH 7.90 pH Units 7.93 0.379 25

Specific Conductance (EC) 2.51 0.00500 mmhos/cm 2.83 11.8 25

Batch B5B0331 - Saturated Paste pH/EC

Blank (B5B0331-BLK1)

Prepared: 02/03/2025 Analyzed: 02/05/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

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Absaroka
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 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

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 B5B0331 - Saturated Paste pH/EC

Duplicate (B5B0331-DUP1)

Source: E5A0735-25

Prepared: 02/03/2025 Analyzed: 02/05/2025

pH	7.22		pH Units		7.19		0.416		25	
Specific Conductance (EC)	0.180	0.00500	mmhos/cm		0.187		3.60		25	

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Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

PAH BY 8270D - 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 L798711 - 3550B

MSD (L 85268-MSD-L798711)

Source: E5A0735-18

Prepared: 02/07/2025 Analyzed: 02/10/2025

Benzo(b)fluoranthene	0.0972	0.00067	mg/Kg	0.166	<0.000585	58.5	30-130	10.5	30	
Benzo(k)fluoranthene	0.0831	0.00067	"	0.166	<0.000437	50	30-130	20.4	30	
Benzo(a)pyrene	0.107	0.00067	"	0.166	<0.000468	64.4	30-130	6.3	30	
Chrysene	0.0812	0.00067	"	0.166	<0.000624	48.9	30-130	7.2	30	
Dibenz(a,h)anthracene	0.113	0.00067	"	0.166	<0.000614	68	30-130	5.1	30	
Fluorene	0.0979	0.00067	"	0.166	<0.000286	58.9	30-130	7.9	30	
Indeno(1,2,3-cd)pyrene	0.104	0.00067	"	0.166	<0.000627	62.6	30-130	8.2	30	
Naphthalene	0.0706	0.00201	"	0.166	<0.00145	42.5	30-130	5.9	30	
Pyrene	0.101	0.00067	"	0.166	<0.000643	60.8	30-130	7.6	30	
Fluoranthene	0.103	0.00067	"	0.166	<0.000394	62	30-130	8.3	30	
2-Methylnaphthalene	0.0866	0.00201	"	0.166	<0.00194	52.1	30-130	6.5	30	
Benzo(a)anthracene	0.108	0.00067	"	0.166	<0.000493	65	30-130	4.5	30	
1-Methylnaphthalene	0.0768	0.00201	"	0.166	<0.00109	46.2	30-130	6.1	30	
Anthracene	0.0865	0.00067	"	0.166	<0.000334	52.1	30-130	8.8	30	
Acenaphthene	0.0919	0.00067	"	0.166	<0.000304	55.3	30-130	9.4	30	
Surrogate: Nitrobenzene-d5	53.9		"	0.332	193	53.9	29-110			
Surrogate: 2-Fluorobiphenyl	48.4		"	0.332	171	48.4	33-115			
Surrogate: 4-Terphenyl-d14	63.5		"	0.332	224	63.5	33-122			

MS (L 85268-MS-L798711)

Source: E5A0735-18

Prepared: 02/07/2025 Analyzed: 02/10/2025

Fluorene	0.106	0.00067	mg/Kg	0.166	<0.000286	63.8	30-130			
Pyrene	0.109	0.00067	"	0.166	<0.000643	65.6	30-130			
Indeno(1,2,3-cd)pyrene	0.113	0.00067	"	0.166	<0.000627	68	30-130			
Fluoranthene	0.112	0.00067	"	0.166	<0.000394	67.4	30-130			
Dibenz(a,h)anthracene	0.119	0.00067	"	0.166	<0.000614	71.6	30-130			
Chrysene	0.0873	0.00067	"	0.166	<0.000624	52.5	30-130			
Benzo(k)fluoranthene	0.102	0.00067	"	0.166	<0.000437	61.4	30-130			

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Absaroka
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Joel Mason
 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L798711 - 3550B

MS (L 85268-MS-L798711)		Source: E5A0735-18		Prepared: 02/07/2025 Analyzed: 02/10/2025						
Benzo(b)fluoranthene	0.108	0.00067	mg/Kg	0.166	<0.000585	65	30-130			
Benzo(a)pyrene	0.114	0.00067	"	0.166	<0.000468	68.6	30-130			
Benzo(a)anthracene	0.113	0.00067	"	0.166	<0.000493	68	30-130			
Acenaphthene	0.101	0.00067	"	0.166	<0.000304	60.8	30-130			
2-Methylnaphthalene	0.0925	0.00201	"	0.166	<0.00194	55.7	30-130			
1-Methylnaphthalene	0.0817	0.00201	"	0.166	<0.00109	49.2	30-130			
Naphthalene	0.0749	0.00201	"	0.166	<0.00145	45.1	30-130			
Anthracene	0.0945	0.00067	"	0.166	<0.000334	56.9	30-130			
Surrogate: Nitrobenzene-d5	57.8		"	0.332	193	57.8	29-110			
Surrogate: 4-Terphenyl-d14	69.8		"	0.332	224	69.8	33-122			
Surrogate: 2-Fluorobiphenyl	52.4		"	0.332	171	52.4	33-115			

LCS (LCS-L798711)		Prepared: 02/07/2025 Analyzed: 02/10/2025								
Benzo(a)anthracene	0.114	0.00067	mg/Kg	0.167		68.2	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.00067	"	0.167		64.6	30-130			
Chrysene	0.0957	0.00067	"	0.167		57.3	30-130			
Anthracene	0.0948	0.00067	"	0.167		56.7	30-130			
Fluorene	0.105	0.00067	"	0.167		62.8	30-130			
Dibenz(a,h)anthracene	0.113	0.00067	"	0.167		67.6	30-130			
Benzo(k)fluoranthene	0.1	0.00067	"	0.167		59.8	30-130			
Benzo(a)pyrene	0.115	0.00067	"	0.167		68.8	30-130			
Benzo(b)fluoranthene	0.105	0.00067	"	0.167		62.8	30-130			
Pyrene	0.108	0.00067	"	0.167		64.6	30-130			
1-Methylnaphthalene	0.0839	0.00201	"	0.167		50.2	30-130			
Naphthalene	0.076	0.00201	"	0.167		45.5	30-130			
Acenaphthene	0.0991	0.00067	"	0.167		59.3	30-130			
Fluoranthene	0.111	0.00067	"	0.167		66.4	30-130			

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Project: Citation - McCormick 24-3 #8

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Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L798711 - 3550B

LCS (LCS-L798711)

Prepared: 02/07/2025 Analyzed: 02/10/2025

2-Methylnaphthalene	0.0935	0.00201	mg/Kg	0.167		55.9	30-130			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			
Surrogate: Nitrobenzene-d5	65.1		"	0.333		65.1	29-110			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			

LRB (LRB-L798711)

Prepared: 02/07/2025 Analyzed: 02/10/2025

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00201	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	50.7		"	0.333		50.7	33-115			
Surrogate: Nitrobenzene-d5	55.5		"	0.333		55.5	29-110			
Surrogate: 4-Terphenyl-d14	60.9		"	0.333		60.9	33-122			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L798465 - 3550B

MSD (L 85915-MSD-L798465)

Source: 85915

Prepared: 02/06/2025 Analyzed: 02/06/2025

Benzo(a)pyrene	0.116	0.00067	mg/Kg	0.166	<0.000468	69.8	30-130	5	30	
Benzo(b)fluoranthene	0.129	0.00067	"	0.166	<0.000585	77.7	30-130	8.1	30	
Benzo(k)fluoranthene	0.12	0.00067	"	0.166	<0.000437	72.2	30-130	3.2	30	
Dibenz(a,h)anthracene	0.132	0.00067	"	0.166	<0.000614	79.5	30-130	5.8	30	
Fluoranthene	0.108	0.00067	"	0.166	0.000858	64.5	30-130	4.7	30	
Fluorene	0.106	0.00067	"	0.166	<0.000286	63.8	30-130	3.7	30	
Chrysene	0.0983	0.00067	"	0.166	<0.000624	59.2	30-130	2.3	30	
Benzo(a)anthracene	0.118	0.00067	"	0.166	0.000498	70.7	30-130	0.8	30	
Anthracene	0.0959	0.00067	"	0.166	<0.000334	57.7	30-130	5.1	30	
Acenaphthene	0.0981	0.00067	"	0.166	<0.000304	59	30-130	1.7	30	
2-Methylnaphthalene	0.0738	0.00201	"	0.166	<0.00194	44.4	30-130	3.4	30	
1-Methylnaphthalene	0.069	0.00201	"	0.166	<0.00109	41.5	30-130	2.4	30	
Naphthalene	0.0591	0.00201	"	0.166	<0.00145	35.6	30-130	1.6	30	
Pyrene	0.11	0.00067	"	0.166	0.001	65.6	30-130	0.9	30	
Indeno(1,2,3-cd)pyrene	0.13	0.00067	"	0.166	<0.000627	78.3	30-130	4.5	30	

Surrogate: 4-Terphenyl-d14

68

"

0.332

171

68

33-122

Surrogate: Nitrobenzene-d5

43.9

"

0.332

116

43.9

29-110

Surrogate: 2-Fluorobiphenyl

41.8

"

0.332

112

41.8

33-115

MS (L 85915-MS-L798465)

Source: 85915

Prepared: 02/06/2025 Analyzed: 02/06/2025

Chrysene	0.096	0.00067	mg/Kg	0.164	<0.000624	58.5	30-130			
Benzo(k)fluoranthene	0.124	0.00067	"	0.164	<0.000437	75.6	30-130			
Acenaphthene	0.0998	0.00067	"	0.164	<0.000304	60.8	30-130			
2-Methylnaphthalene	0.0764	0.00201	"	0.164	<0.00194	46.5	30-130			
1-Methylnaphthalene	0.0707	0.00201	"	0.164	<0.00109	43.1	30-130			
Benzo(a)anthracene	0.117	0.00067	"	0.164	0.000498	71	30-130			
Fluoranthene	0.103	0.00067	"	0.164	0.000858	62.2	30-130			

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 Project: Citation - McCormick 24-3 #6

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Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L798465 - 3550B

MS (L 85915-MS-L798465)

Source: 85915

Prepared: 02/06/2025 Analyzed: 02/06/2025

Benzo(b)fluoranthene	0.14	0.00067	mg/Kg	0.164	<0.000585	85.3	30-130			
Anthracene	0.101	0.00067	"	0.164	<0.000334	61.5	30-130			
Dibenz(a,h)anthracene	0.14	0.00067	"	0.164	<0.000614	85.3	30-130			
Fluorene	0.11	0.00067	"	0.164	<0.000286	67	30-130			
Indeno(1,2,3-cd)pyrene	0.136	0.00067	"	0.164	<0.000627	82.9	30-130			
Naphthalene	0.0601	0.00201	"	0.164	<0.00145	36.6	30-130			
Pyrene	0.111	0.00067	"	0.164	0.001	67	30-130			
Benzo(a)pyrene	0.122	0.00067	"	0.164	<0.000468	74.3	30-130			

Surrogate: 4-Terphenyl-d14	65.6		"	0.329	171	65.6	33-122			
Surrogate: 2-Fluorobiphenyl	43.4		"	0.329	112	43.4	33-115			
Surrogate: Nitrobenzene-d5	55.9		"	0.329	116	55.9	29-110			

LCS (LCS-L798465)

Prepared: 02/06/2025 Analyzed: 02/06/2025

Benzo(k)fluoranthene	0.124	0.00067	mg/Kg	0.167		74.2	30-130			
2-Methylnaphthalene	0.084	0.00201	"	0.167		50.2	30-130			
Acenaphthene	0.103	0.00067	"	0.167		61.6	30-130			
Anthracene	0.104	0.00067	"	0.167		62.2	30-130			
Benzo(a)anthracene	0.12	0.00067	"	0.167		71.8	30-130			
Benzo(b)fluoranthene	0.138	0.00067	"	0.167		82.6	30-130			
1-Methylnaphthalene	0.0782	0.00201	"	0.167		46.8	30-130			
Chrysene	0.105	0.00067	"	0.167		62.8	30-130			
Dibenz(a,h)anthracene	0.138	0.00067	"	0.167		82.6	30-130			
Fluoranthene	0.121	0.00067	"	0.167		72.4	30-130			
Pyrene	0.119	0.00067	"	0.167		71.2	30-130			
Fluorene	0.111	0.00067	"	0.167		66.4	30-130			
Indeno(1,2,3-cd)pyrene	0.138	0.00067	"	0.167		82.6	30-130			
Naphthalene	0.0698	0.00201	"	0.167		41.7	30-130			

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

PAH BY 8270D - 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 L798465 - 3550B

LCS (LCS-L798465)

Prepared: 02/06/2025 Analyzed: 02/06/2025

Benzo(a)pyrene	0.122	0.00067	mg/Kg	0.167		73	30-130			
Surrogate: 2-Fluorobiphenyl	48.6		"	0.333		48.6	33-115			
Surrogate: 4-Terphenyl-d14	78.9		"	0.333		78.9	33-122			
Surrogate: Nitrobenzene-d5	40.8		"	0.333		40.8	29-110			

LRB (LRB-L798465)

Prepared: 02/06/2025 Analyzed: 02/06/2025

Indeno(1,2,3-cd)pyrene	ND	0.00067	mg/Kg				-			
Anthracene	ND	0.00067	"				-			
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	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Naphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	63.9		"	0.333		63.9	29-110			
Surrogate: 4-Terphenyl-d14	81		"	0.333		81	33-122			
Surrogate: 2-Fluorobiphenyl	48.9		"	0.333		48.9	33-115			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L798297 - 3550B

MSD (L 85196-MSD-L798297)

Source: 85196

Prepared: 02/05/2025 Analyzed: 02/07/2025

Fluorene	0.104	0.00067	mg/Kg	0.166	<0.000286	62.6	30-130	7.4	30	
Benzo(k)fluoranthene	0.113	0.00067	"	0.166	<0.000437	68	30-130	4.3	30	
2-Methylnaphthalene	0.0813	0.00201	"	0.166	<0.00194	48.9	30-130	6.3	30	
Acenaphthene	0.098	0.00067	"	0.166	<0.000304	59	30-130	5.9	30	
Anthracene	0.0957	0.00067	"	0.166	<0.000334	57.6	30-130	9.2	30	
Benzo(a)anthracene	0.117	0.00067	"	0.166	<0.000493	70.4	30-130	7.4	30	
Benzo(a)pyrene	0.117	0.00067	"	0.166	<0.000468	70.4	30-130	6.6	30	
Naphthalene	0.0671	0.00201	"	0.166	<0.00145	40.4	30-130	5.3	30	
Benzo(b)fluoranthene	0.124	0.00067	"	0.166	<0.000585	74.6	30-130	3.1	30	
Chrysene	0.0972	0.00067	"	0.166	<0.000624	58.5	30-130	6.7	30	
Dibenz(a,h)anthracene	0.127	0.00067	"	0.166	<0.000614	76.5	30-130	4.6	30	
Fluoranthene	0.108	0.00067	"	0.166	<0.000394	65	30-130	7.1	30	
Indeno(1,2,3-cd)pyrene	0.129	0.00067	"	0.166	<0.000627	77.7	30-130	5.2	30	
Pyrene	0.105	0.00067	"	0.166	<0.000643	63.2	30-130	6.4	30	
1-Methylnaphthalene	0.0743	0.00201	"	0.166	<0.00109	44.7	30-130	3.3	30	
Surrogate: 2-Fluorobiphenyl	43.5		"	0.331	151	43.5	33-115			
Surrogate: 4-Terphenyl-d14	65.5		"	0.331	227	65.5	33-122			
Surrogate: Nitrobenzene-d5	59.5		"	0.331	180	59.5	29-110			

MS (L 85196-MS-L798297)

Source: 85196

Prepared: 02/05/2025 Analyzed: 02/07/2025

Pyrene	0.112	0.00067	mg/Kg	0.167	<0.000643	67	30-130			
Indeno(1,2,3-cd)pyrene	0.136	0.00067	"	0.167	<0.000627	81.4	30-130			
Fluoranthene	0.116	0.00067	"	0.167	<0.000394	69.4	30-130			
Dibenz(a,h)anthracene	0.133	0.00067	"	0.167	<0.000614	79.6	30-130			
Naphthalene	0.0708	0.00201	"	0.167	<0.00145	42.3	30-130			
Chrysene	0.104	0.00067	"	0.167	<0.000624	62.2	30-130			
Fluorene	0.112	0.00067	"	0.167	<0.000286	67	30-130			

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Joel Mason
Project Number: CIT.CO.1055
Project: Citation - McCormick 24-3 #6

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L798297 - 3550B

MS (L 85196-MS-L798297)

Source: 85196

Prepared: 02/05/2025 Analyzed: 02/07/2025

Benzo(k)fluoranthene	0.118	0.00067	mg/Kg	0.167	<0.000437	70.6	30-130
Benzo(b)fluoranthene	0.128	0.00067	"	0.167	<0.000585	76.6	30-130
Benzo(a)pyrene	0.125	0.00067	"	0.167	<0.000468	74.8	30-130
Benzo(a)anthracene	0.126	0.00067	"	0.167	<0.000493	75.4	30-130
Anthracene	0.105	0.00067	"	0.167	<0.000334	62.8	30-130
Acenaphthene	0.104	0.00067	"	0.167	<0.000304	62.2	30-130
2-Methylnaphthalene	0.0866	0.00201	"	0.167	<0.00194	51.8	30-130
1-Methylnaphthalene	0.0768	0.00201	"	0.167	<0.00109	45.9	30-130

Surrogate: Nitrobenzene-d5	47.1	"	"	0.333	180	47.1	29-110
Surrogate: 2-Fluorobiphenyl	46.5	"	"	0.333	151	46.5	33-115
Surrogate: 4-Terphenyl-d14	70.2	"	"	0.333	227	70.2	33-122

LCS (LCS-L798297)

Prepared: 02/05/2025 Analyzed: 02/07/2025

1-Methylnaphthalene	0.0804	0.00201	mg/Kg	0.167		48.1	30-130
Naphthalene	0.074	0.00201	"	0.167		44.3	30-130
Fluorene	0.113	0.00067	"	0.167		67.6	30-130
Pyrene	0.118	0.00067	"	0.167		70.6	30-130
Indeno(1,2,3-cd)pyrene	0.151	0.00067	"	0.167		90.4	30-130
Fluoranthene	0.12	0.00067	"	0.167		71.8	30-130
Dibenz(a,h)anthracene	0.148	0.00067	"	0.167		88.6	30-130
Chrysene	0.109	0.00067	"	0.167		65.2	30-130
Benzo(k)fluoranthene	0.133	0.00067	"	0.167		79.6	30-130
Benzo(b)fluoranthene	0.146	0.00067	"	0.167		87.4	30-130
Benzo(a)pyrene	0.13	0.00067	"	0.167		77.8	30-130
Benzo(a)anthracene	0.13	0.00067	"	0.167		77.8	30-130
Anthracene	0.108	0.00067	"	0.167		64.6	30-130
Acenaphthene	0.107	0.00067	"	0.167		64	30-130

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Project: Citation - McCormick 24-3 #6

PAH BY 8270D - 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 L798297 - 3550B

LCS (LCS-L798297)

Prepared: 02/05/2025 Analyzed: 02/07/2025

2-Methylnaphthalene	0.0889	0.00201	mg/Kg	0.167		53.2	30-130			
Surrogate: Nitrobenzene-d5	68.1		"	0.333		68.1	29-110			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			
Surrogate: 4-Terphenyl-d14	80.1		"	0.333		80.1	33-122			

LRB (LRB-L798297)

Prepared: 02/05/2025 Analyzed: 02/07/2025

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: 4-Terphenyl-d14	79.5		"	0.333		79.5	33-122			
Surrogate: Nitrobenzene-d5	64.5		"	0.333		64.5	29-110			
Surrogate: 2-Fluorobiphenyl	50.7		"	0.333		50.7	33-115			

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 Project: Citation - McCormick 24-3 #6

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
Batch L799369 -										
DUP (L 85306-DUP)			Source: 85306			Prepared: Analyzed: 02/11/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 85306-MS)			Source: 85306			Prepared: Analyzed: 02/11/2025				
Chromium, Hexavalent	34.6	2.5	mg/Kg	39.4	< 0.244	88	75-125			
LCS (LCS)						Prepared: Analyzed: 02/11/2025				
Chromium, Hexavalent	6.34	0.5	mg/Kg	8		79	75-125			
LRB (LRB)						Prepared: Analyzed: 02/11/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg							

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 Project Number: CIT.CO.1055
 Project: Citation - McCormick 24-3 #6

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
Batch L799181 -										
DUP (L 85274-DUP)			Source: E5A0735-24			Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 85274-MS)			Source: E5A0735-24			Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	30.1	2.5	mg/Kg	39.4	< 0.244	76	75-125			
LCS (LCS)						Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	6.95	0.5	mg/Kg	8		87	75-125			
LRB (LRB)						Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg							

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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
Batch L799176 -										
DUP (L 85255-DUP)			Source: E5A0735-05			Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
LCS (LCS)						Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	6.67	0.5	mg/Kg	8		83	75-125			
LRB (LRB)						Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg							

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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
Batch L799175 -										
DUP (L 85938-DUP)			Source: 85938			Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 85938-MS)			Source: 85938			Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	36.3	2.5	mg/Kg	39.6	< 0.244	92	75-125			
LCS (LCS)						Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	7.04	0.5	mg/Kg	8		88	75-125			
LRB (LRB)						Prepared: Analyzed: 02/10/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Joel Mason
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Project: Citation - McCormick 24-3 #8

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.

J Estimated Value. Analyte below reported quantitation limit.

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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