



Absaroka
Joel Mason
112 High St.

February 12, 2025

Buffalo WY 82834

**Project Name - Citation - Speaker Unit
Compressor**

Project Number - CIT.CO.1055.47

Attached are your analytical results for Citation - Speaker Unit Compressor received by Origins Laboratory January 24, 2025. This project is associated with Origins project number E5A0545-01.

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.1055.47

Project: Citation - Speaker Unit Compressor

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SPKRAST1_4@36"	E5A0545-01	Soil	January 23, 2025 9:20	01/24/2025 12:09

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project Number: CIT.CO.1055.47
Project: Citation - Speaker Unit Compressor

CHEN
LABORATORY

6540547

Page 1 of 1

Client: Citation/ Absaroka

Project Manager: Joel Mason

Address: _____

JOEL MASON

Project Name: Atsaphoe Unit Sec 26 TB

Key: Unit 1 Comp 10

Speaker = Water

Key: Unit - compressor
Speaker W = water

Telephone Number: 307-262-8975

Project Number: CIT.CO.1055.47
Collected By: *[Signature]*

GW=Groundwater

Email Address: Joel.mason@absarokasolutions.com

Invoice/Billing Info: On File - Citation

WW= Waste Water

S=Sol | SO=Solid | O=Oil | A=Air | G=Gas || UNP=Unpures | HCl= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | MAOH=Sodium Hydroxide

[illegible]

Temp Received- 35°C Received On Ice? ☒ Yes ☐ No

☒ Yes ☐ No

☐ **No**

Origins Laboratory

Jeff Pelligrini

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project: Citation - Speaker Unit Compressor

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: ESADSUS

Client: Absaroka

Client Project ID: Speaker Unit Comp

Checklist Completed by: EH DSEM

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

Date/time completed: 1/29/25

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ✓ Soil/Solid

Water Other: _____

Cooler Number/Temperature: 1/3.5°C

(Describe)

Thermometer ID: 1007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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 sample integrity)(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) AS

1/28/25
Date/Time Reviewed

Origins Laboratory

Jen Pellegrini

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055.47
Project: Citation - Speaker Unit Compressor

SPKRAST1 4@36"
1/23/2025 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0545-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.448	0.0995	mg/L	1	B5A2749	01/27/2025	01/29/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5A2730	01/27/2025	01/28/2025	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	71.6 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5A2753	01/27/2025	01/29/2025	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
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Origins Laboratory



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SPKRAST1 4@36"
1/23/2025 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0545-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.4 %	70-130	B5A27 53	01/27/2025	01/29/2025
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.27	0.499	meq/L	10	[CALC]	01/27/2025	01/30/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.13	0.435	"	"	"	"	"

PAH by 3541/8270

1-Methylnaphthalene	ND	0.00128	0.00389	mg/kg dry	1	2740950	01/30/2025	01/30/2025	U
2-Methylnaphthalene	ND	0.00128	0.00389	"	"	"	"	"	U
Acenaphthene	ND	0.00128	0.00389	"	"	"	"	"	U
Anthracene	ND	0.00128	0.00389	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00128	0.00389	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00128	0.00389	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00128	0.00389	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00128	0.00389	"	"	"	"	"	U
Chrysene	0.00350	0.00128	0.00389	"	"	"	"	"	J
Dibenzo(a,h)anthracene	ND	0.00128	0.00389	"	"	"	"	"	U
Fluoranthene	ND	0.00128	0.00389	"	"	"	"	"	U

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SPKRAST1 4@36"
1/23/2025 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5A0545-01 (Soil)

PAH by 3541/8270

Fluorene	ND	0.00128	0.00389	mg/kg dry	1	2740950	01/30/2025	01/30/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00128	0.00389	"	"	"	"	"	U
Naphthalene	ND	0.00128	0.00389	"	"	"	"	"	U
Pyrene	ND	0.00128	0.00389	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 50 % 22-135 " " "

pH in Soil by 9045D

pH	8.10			pH Units	1	B5A2751	01/27/2025	01/30/2025	
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SAR by 20B Saturated Paste

SAR	7.26		0.0100	SAR	1	B5A2746	01/27/2025	01/30/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.01		0.00500	mmhos/cm	1	B5A2751	01/27/2025	01/31/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.83		0.244	mg/kg	10	B5A2736	01/27/2025	01/28/2025	
Barium	66.0		8.42	"	"	"	"	"	
Cadmium	0.0910		0.0842	"	"	"	"	"	

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SPKRAST1 4@36"
1/23/2025 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0545-01 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.42	mg/kg	10	B5A2736	01/27/2025	01/28/2025	Ua
Lead	4.96	0.842	"	"	"	"	"	
Nickel	5.69	0.842	"	"	"	"	"	
Selenium	ND	0.219	"	"	"	"	"	Ua
Silver	ND	0.0842	"	"	"	"	"	Ua
Zinc	ND	31.2	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.128	0.319	mg/kg dry	1	2741430	01/31/2025	02/03/2025	U
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Project: Citation - Speaker Unit Compressor

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 B5A2730 - EPA 3550B										
Blank (B5A2730-BLK1)					Prepared: 01/27/2025 Analyzed: 01/28/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		86.0	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 B5A2730 - EPA 3550B

LCS (B5A2730-BS1)

Prepared: 01/27/2025 Analyzed: 01/28/2025

Diesel (C10-C28)	878	50.0	mg/kg	1000		87.8	70-130			
Residual Range Organics (C28-C40)	962	200	"	1000		96.2	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.7	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 B5A2730 - EPA 3550B

Matrix Spike (B5A2730-MS1)		Source: E5A0522-01			Prepared: 01/27/2025 Analyzed: 01/28/2025					
Diesel (C10-C28)	877	50.0	mg/kg	1000	ND	87.7	70-130			
Residual Range Organics (C28-C40)	982	200	"	1000	ND	98.2	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.4	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 B5A2730 - EPA 3550B										
Matrix Spike Dup (B5A2730-MSD1)			Source: E5A0522-01			Prepared: 01/27/2025 Analyzed: 01/28/2025				
Diesel (C10-C28)	873	50.0	mg/kg	1000	ND	87.3	70-130	0.474	35	
Residual Range Organics (C28-C40)	964	200	"	1000	ND	96.4	70-130	1.91	35	
Surrogate: o-Terphenyl	39		"	49.8		77.8	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 B5A2753 - EPA 5030 (soil)										
Blank (B5A2753-BLK1)					Prepared: 01/27/2025 Analyzed: 01/28/2025					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project: Citation - Speaker Unit Compressor

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 B5A2753 - EPA 5030 (soil)

LCS (B5A2753-BS1)

Prepared: 01/27/2025 Analyzed: 01/28/2025

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0993	0.00200	"	0.100		99.3	70-130			
Naphthalene	0.0941	0.00380	"	0.100		94.1	70-130			
Toluene	0.0953	0.00200	"	0.100		95.3	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5A2753 - EPA 5030 (soil)

Matrix Spike (B5A2753-MS1)		Source: E5A0526-01			Prepared: 01/27/2025 Analyzed: 01/28/2025					
1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100	ND	118	70-130			
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130			
Benzene	0.109	0.00200	"	0.100	ND	109	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Naphthalene	0.0993	0.00380	"	0.100	ND	99.3	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5A2753 - EPA 5030 (soil)										
Matrix Spike Dup (B5A2753-MSD1)			Source: E5A0526-01		Prepared: 01/27/2025 Analyzed: 01/28/2025					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	ND	112	70-130	5.42	20	
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	4.43	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	3.55	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	4.56	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	1.32	20	
Toluene	0.0981	0.00200	"	0.100	ND	98.1	70-130	4.00	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	3.84	20	
m,p-Xylene	0.209	0.00400	"	0.200	ND	104	70-130	4.25	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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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 B5A2736 - EPA 3050B

Blank (B5A2736-BLK1)

Prepared: 01/27/2025 Analyzed: 01/28/2025

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

LCS (B5A2736-BS1)

Prepared: 01/27/2025 Analyzed: 01/28/2025

Arsenic	4.87	0.290	mg/kg	5.00		97.4	80-120
Barium	437	10.0	"	500		87.4	80-120
Cadmium	4.86	0.100	"	5.00		97.2	80-120
Copper	50.6	10.0	"	50.0		101	80-120
Lead	4.59	1.00	"	5.00		91.8	80-120
Nickel	5.01	1.00	"	5.00		100	80-120
Selenium	4.32	0.260	"	5.00		86.5	80-120
Silver	5.00	0.100	"	5.00		100	80-120
Zinc	48.4	37.0	"	50.0		96.8	80-120

Matrix Spike (B5A2736-MS1)

Source: E5A0554-01

Prepared: 01/27/2025 Analyzed: 01/28/2025

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055.47
Project: Citation - Speaker Unit Compressor

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 B5A2736 - EPA 3050B

Matrix Spike (B5A2736-MS1)		Source: E5A0554-01			Prepared: 01/27/2025 Analyzed: 01/28/2025					
Arsenic	7.79	0.260	mg/kg	4.48	3.61	93.2	75-125			
Barium	545	8.96	"	448	108	97.4	75-125			
Cadmium	4.51	0.0896	"	4.48	0.113	98.1	75-125			
Copper	52.4	8.96	"	44.8	7.43	100	75-125			
Lead	10.6	0.896	"	4.48	6.99	80.6	75-125			
Nickel	12.0	0.896	"	4.48	8.04	88.0	75-125			
Selenium	4.17	0.233	"	4.48	0.185	89.1	75-125			
Silver	4.50	0.0896	"	4.48	0.0201	100	75-125			
Zinc	70.1	33.1	"	44.8	30.3	88.7	75-125			
Matrix Spike Dup (B5A2736-MSD1)		Source: E5A0554-01			Prepared: 01/27/2025 Analyzed: 01/28/2025					
Arsenic	7.90	0.283	mg/kg	4.87	3.61	87.9	75-125	1.41	20	
Barium	548	9.75	"	487	108	90.2	75-125	0.595	20	
Cadmium	4.91	0.0975	"	4.87	0.113	98.3	75-125	8.52	20	
Copper	55.9	9.75	"	48.7	7.43	99.5	75-125	6.46	20	
Lead	10.7	0.975	"	4.87	6.99	77.1	75-125	1.37	20	
Nickel	11.6	0.975	"	4.87	8.04	72.0	75-125	3.70	20	QM-07
Selenium	4.33	0.253	"	4.87	0.185	85.1	75-125	3.72	20	
Silver	4.88	0.0975	"	4.87	0.0201	99.7	75-125	8.10	20	
Zinc	72.1	36.1	"	48.7	30.3	85.6	75-125	2.83	20	

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055.47
Project: Citation - Speaker Unit Compressor

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 B5A2746 - Saturated Paste Metals

Blank (B5A2746-BLK1)

Prepared: 01/27/2025 Analyzed: 01/30/2025

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

Duplicate (B5A2746-DUP1)

Source: E5A0540-01

Prepared: 01/27/2025 Analyzed: 01/30/2025

Calcium PPM	11.0	10.0	mg/L		12.4			11.7	50	
SAR	ND	0.0100	SAR		10.7				200	Ua
Magnesium PPM	1.23	10.0	mg/L		1.48			18.5	50	Ua
Sodium PPM	135	10.0	"		150			10.4	50	

Batch B5A2749 - DTPA Sorbitol Preparation

Blank (B5A2749-BLK1)

Prepared: 01/27/2025 Analyzed: 01/31/2025

Boron	ND	0.100	mg/L							Ua
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Duplicate (B5A2749-DUP1)

Source: E5A0536-01

Prepared: 01/27/2025 Analyzed: 01/31/2025

Boron	ND	1.00	mg/L		ND				50	Ua
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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055.47
Project: Citation - Speaker Unit Compressor

Saturated Paste - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5A2751 - Saturated Paste pH/EC										
Blank (B5A2751-BLK1)					Prepared: 01/27/2025 Analyzed: 01/31/2025					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
Duplicate (B5A2751-DUP1)					Source: E5A0540-01 Prepared: 01/27/2025 Analyzed: 01/29/2025					
Specific Conductance (EC)	0.748	0.00500	mmhos/cm		0.772			3.12	25	
pH	8.43		pH Units		8.42			0.119	25	

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055.47
Project: Citation - Speaker Unit Compressor

PAH by 3541/8270 - Quality Control

GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2740950 - SW846 3541

BLANK (1205988391-BLK)

Prepared: 01/30/2025 Analyzed: 01/30/2025

Fluorene	ND	0.00329	mg/kg				-			U
Fluoranthene	ND	0.00329	"				-			U
Dibenzo(a,h)anthracene	0.00165	0.00329	"				-			J
Chrysene	ND	0.00329	"				-			U
Benzo(k)fluoranthene	ND	0.00329	"				-			U
Benzo(b)fluoranthene	ND	0.00329	"				-			U
Benzo(a)pyrene	ND	0.00329	"				-			U
Benzo(a)anthracene	ND	0.00329	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00329	"				-			U
Pyrene	ND	0.00329	"				-			U
Naphthalene	ND	0.00329	"				-			U
Anthracene	ND	0.00329	"				-			U
Acenaphthene	ND	0.00329	"				-			U
2-Methylnaphthalene	ND	0.00329	"				-			U
1-Methylnaphthalene	ND	0.00329	"				-			U

Surrogate: 5-alpha-Androstane

0.138

"

0.165

84

22-135

LCS (1205988392-BKS)

Prepared: 01/30/2025 Analyzed: 01/30/2025

Indeno(1,2,3-cd)pyrene	0.279	0.00331	mg/kg	0.331		84	38-133			
Fluorene	0.296	0.00331	"	0.331		89	37-115			
Fluoranthene	0.280	0.00331	"	0.331		84	39-119			
Naphthalene	0.273	0.00331	"	0.331		82	38-109			
Benzo(a)anthracene	0.282	0.00331	"	0.331		85	42-120			
Anthracene	0.276	0.00331	"	0.331		83	41-117			
Dibenzo(a,h)anthracene	0.288	0.00331	"	0.331		87	38-132			B
Benzo(a)pyrene	0.292	0.00331	"	0.331		88	39-127			
Benzo(b)fluoranthene	0.276	0.00331	"	0.331		83	39-123			

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055.47
Project: Citation - Speaker Unit Compressor

PAH by 3541/8270 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2740950 - SW846 3541

LCS (1205988392-BKS)

Prepared: 01/30/2025 Analyzed: 01/30/2025

1-Methylnaphthalene	0.257	0.00331	mg/kg	0.331		78	39-109			
2-Methylnaphthalene	0.265	0.00331	"	0.331		80	39-110			
Acenaphthene	0.283	0.00331	"	0.331		85	41-112			
Benzo(k)fluoranthene	0.270	0.00331	"	0.331		82	40-122			
Pyrene	0.276	0.00331	"	0.331		83	38-117			
Chrysene	0.291	0.00331	"	0.331		88	42-117			
Surrogate: 5-alpha-Androstane	0.147		"	0.166		89	22-135			

LCSD (1205988393-BKSD)

Prepared: 01/30/2025 Analyzed: 01/30/2025

1-Methylnaphthalene	0.253	0.00333	mg/kg	0.333		76	39-109	1	30	
Fluorene	0.278	0.00333	"	0.333		84	37-115	6	30	
Acenaphthene	0.271	0.00333	"	0.333		81	41-112	4	30	
Anthracene	0.258	0.00333	"	0.333		78	41-117	7	30	
Benzo(a)anthracene	0.260	0.00333	"	0.333		78	42-120	8	30	
Benzo(a)pyrene	0.275	0.00333	"	0.333		83	39-127	6	30	
2-Methylnaphthalene	0.257	0.00333	"	0.333		77	39-110	3	30	
Benzo(b)fluoranthene	0.258	0.00333	"	0.333		78	39-123	7	30	
Benzo(k)fluoranthene	0.256	0.00333	"	0.333		77	40-122	5	30	
Chrysene	0.268	0.00333	"	0.333		81	42-117	8	30	
Fluoranthene	0.264	0.00333	"	0.333		79	39-119	6	30	
Indeno(1,2,3-cd)pyrene	0.261	0.00333	"	0.333		79	38-133	7	30	
Naphthalene	0.270	0.00333	"	0.333		81	38-109	1	30	
Pyrene	0.259	0.00333	"	0.333		78	38-117	6	30	
Dibenzo(a,h)anthracene	0.270	0.00333	"	0.333		81	38-132	6	30	B
Surrogate: 5-alpha-Androstane	0.139		"	0.166		84	22-135			

MS (1205988394 S)

Source: 705741001

Prepared: 01/30/2025 Analyzed: 01/30/2025

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055.47
Project: Citation - Speaker Unit Compressor

PAH by 3541/8270 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2740950 - SW846 3541

MS (1205988394 S)		Source: 705741001			Prepared: 01/30/2025 Analyzed: 01/30/2025					
Dibenzo(a,h)anthracene	0.142	0.00376	mg/kg dry	0.376	<0.00124	38	11-134			B
Chrysene	0.137	0.00376	"	0.376	<0.00124	36	19-129			
1-Methylnaphthalene	0.121	0.00376	"	0.376	<0.00124	32	15-129			
2-Methylnaphthalene	0.124	0.00376	"	0.376	<0.00124	33	15-132			
Acenaphthene	0.123	0.00376	"	0.376	<0.00124	33	17-129			
Anthracene	0.129	0.00376	"	0.376	<0.00124	34	18-136			
Benzo(a)anthracene	0.132	0.00376	"	0.376	<0.00124	35	20-132			
Benzo(a)pyrene	0.144	0.00376	"	0.376	<0.00124	38	16-133			
Fluorene	0.131	0.00376	"	0.376	<0.00124	35	16-134			
Benzo(k)fluoranthene	0.136	0.00376	"	0.376	<0.00124	36	18-138			
Fluoranthene	0.135	0.00376	"	0.376	<0.00124	36	14-136			
Indeno(1,2,3-cd)pyrene	0.135	0.00376	"	0.376	<0.00124	36	13-134			
Naphthalene	0.121	0.00376	"	0.376	<0.00124	32	16-126			
Pyrene	0.133	0.00376	"	0.376	<0.00124	35	12-139			
Benzo(b)fluoranthene	0.138	0.00376	"	0.376	<0.00124	37	14-136			
Surrogate: 5-alpha-Androstane	0.0666		"	0.188	0.136	35	22-135			

MSD (1205988395 SD)		Source: 705741001			Prepared: 01/30/2025 Analyzed: 01/30/2025					
Fluoranthene	0.128	0.00376	mg/kg dry	0.376	<0.00124	34	14-136	5	30	
Naphthalene	0.112	0.00376	"	0.376	<0.00124	30	16-126	7	30	
Indeno(1,2,3-cd)pyrene	0.124	0.00376	"	0.376	<0.00124	33	13-134	9	30	
Fluorene	0.118	0.00376	"	0.376	<0.00124	31	16-134	10	30	
Pyrene	0.122	0.00376	"	0.376	<0.00124	32	12-139	9	30	
2-Methylnaphthalene	0.114	0.00376	"	0.376	<0.00124	30	15-132	9	30	
Anthracene	0.118	0.00376	"	0.376	<0.00124	31	18-136	9	30	
1-Methylnaphthalene	0.111	0.00376	"	0.376	<0.00124	30	15-129	9	30	
Dibenzo(a,h)anthracene	0.129	0.00376	"	0.376	<0.00124	34	11-134	10	30	B

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Jen Pellegrini For Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055.47
Project: Citation - Speaker Unit Compressor

PAH by 3541/8270 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2740950 - SW846 3541

MSD (1205988395 SD)		Source: 705741001			Prepared: 01/30/2025 Analyzed: 01/30/2025					
Acenaphthene	0.115	0.00376	mg/kg dry	0.376	<0.00124	31	17-129	7	30	
Benzo(a)anthracene	0.118	0.00376	"	0.376	<0.00124	31	20-132	11	30	
Benzo(a)pyrene	0.130	0.00376	"	0.376	<0.00124	34	16-133	10	30	
Benzo(b)fluoranthene	0.124	0.00376	"	0.376	<0.00124	33	14-136	11	30	
Benzo(k)fluoranthene	0.121	0.00376	"	0.376	<0.00124	32	18-138	12	30	
Chrysene	0.123	0.00376	"	0.376	<0.00124	33	19-129	10	30	
Surrogate: 5-alpha-Androstane	0.0692		"	0.188	0.136	37	22-135			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.1055.47
Project: Citation - Speaker Unit Compressor

Total Metals 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2741430 - SW846 3060A										
BLANK (1205989325-BLK)					Prepared: 01/31/2025 Analyzed: 02/03/2025					
Hexavalent Chromium	ND	0.306	mg/kg				-			U
LCS (1205989326-BKS)					Prepared: 01/31/2025 Analyzed: 02/03/2025					
Hexavalent Chromium	3.86	0.379	mg/kg	3.79		102	80-120			
DUP (1205989327 D)					Source: 705745001 Prepared: 01/31/2025 Analyzed: 02/03/2025					
Hexavalent Chromium	ND	0.289	mg/kg dry		<0.116		0-50	N/A	50	U
MS (1205989328 S)					Source: 705745001 Prepared: 01/31/2025 Analyzed: 02/03/2025					
Hexavalent Chromium	2.62	0.289	mg/kg dry	2.89	<0.116	89	75-125			
DUP (1205989329 D)					Source: 705749001 Prepared: 01/31/2025 Analyzed: 02/03/2025					
Hexavalent Chromium	ND	0.311	mg/kg dry		<0.124		0-50	N/A	50	U
MS (1205989330 S)					Source: 705749001 Prepared: 01/31/2025 Analyzed: 02/03/2025					
Hexavalent Chromium	2.40	0.311	mg/kg dry	3.11	<0.124	76.8	75-125			
ILCS (1205989331-ILCS)					Prepared: 01/31/2025 Analyzed: 02/03/2025					
Hexavalent Chromium	6.78	0.315	mg/kg	6.39		106	80-120			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka

112 High St.

Buffalo

WY

82834

Joel Mason

Project Number: CIT.CO.1055.47

Project: Citation - Speaker Unit Compressor

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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 Greater than the detection limit but less than the reporting limit

B Blank contamination

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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Jen Pellegrini For Jordan A. Bynon, Project Manager