



Ensolum

February 27, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - French, Frahm 9 & 16-34
OSA Facility Closure**

Project Number - 09A1417275

Attached are your analytical results for KMG - French, Frahm 9 & 16-34 OSA Facility Closure received by Origins Laboratory January 30, 2025. This project is associated with Origins project number E5A0723-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645



Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417275
Project: KMG - French, Frahm 9 & 16-34 OSA
Facility Closure

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-INLET@4'	E5A0723-01	Soil	January 30, 2025 10:40	01/30/2025 17:50
SEP-OUTLET@4'	E5A0723-02	Soil	January 30, 2025 10:50	01/30/2025 17:50
PWV-B01@4'	E5A0723-03	Soil	January 30, 2025 11:20	01/30/2025 17:50
PWV-S01@3'	E5A0723-04	Soil	January 30, 2025 11:50	01/30/2025 17:50
AST01@1.5'	E5A0723-05	Soil	January 30, 2025 12:55	01/30/2025 17:50
FL01@3'	E5A0723-06	Soil	January 30, 2025 13:00	01/30/2025 17:50
TB-BG01@0.5'	E5A0723-07	Soil	January 30, 2025 12:20	01/30/2025 17:50
SEP-INLET@4'-V	E5A0723-08	Soil	January 30, 2025 10:41	01/30/2025 17:50
SEP-OUTLET@4'-V	E5A0723-09	Soil	January 30, 2025 10:51	01/30/2025 17:50
PWV-B01@4'-V	E5A0723-10	Soil	January 30, 2025 11:21	01/30/2025 17:50
PWV-S01@3'-V	E5A0723-11	Soil	January 30, 2025 11:51	01/30/2025 17:50
AST01@1.5'-V	E5A0723-12	Soil	January 30, 2025 12:56	01/30/2025 17:50
FL01@3'-V	E5A0723-13	Soil	January 30, 2025 13:01	01/30/2025 17:50

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ORIGINS
 LABORATORY

CSH07125

Page 1 of 1

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservation	Analysis						Comments		
						5-1 Full list	pH	UV	IC	BAR	Asbestos Metals			
SEP-TILET04		1/30	1040	3	UOP	X								
SEP-PATLET04			1050											
PW-1-B0104			1120											
PW-5-0103			1150											
AST015			1255											
F10103			1300											
TB-B0105			1220	2		X	X	X	X	X				
SEP-TILET04-V			1041											
SEP-PATLET04-V			1051											
PW-B0104-V			1121											
PW-5-0103-V			1151											
AST015-V			1255											
F10103-V			1301											

Relinquished By: Ben Fran
 Date: 1/30/2015 Time: 1750
 Relinquished By: [Signature]
 Date: 1/30/25 Time: 950

Temp Received: U Received On Ice? Yes No
 Standard 48 Hr 72
 SAME DAY 24 Hr

Client: Ensolum Project Manager: J Espinoza
 Address: _____ Project Name: French, Frahm 9 & 16-34 OSA Facility Closure
 Telephone Number: _____ Project Number: 09A1417275
 Email Address: KMG Team Invoice Billing Info: Initial
 Collected By: JE MW=Waste Water
 SIW=Surface Water
 L=Liquid

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[Signature]

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Project Number: 09A1417275
Project: KMG - French, Frahm 9 & 16-34 OSA
Facility Closure

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

Sample Receipt Checklist

Origins Work Order: ESA0723 Client: Ensolium

Checklist Completed by: SKM/KMR Client Project ID: FRENCH, Frahm

Date/Time completed: 2/13/25 Shipped Via: _____

Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____ Airbill #: N/A

Cooler Number/Temperature: 1 / 4.1 °C (Describe)

Thermometer ID: T007

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 be in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

2/13/25
Date/Time Reviewed

Origins Laboratory

[Signature]

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 Project Number: 09A1417275
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 Facility Closure

SEP-INLET@4'

1/30/2025 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E5A0723-01 (Soil)**

Boron (DTPA Sorbitol)

Boron	ND		0.985	mg/L	10	B5A3105	01/31/2025	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 87.5% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5A3049	01/30/2025	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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SEP-INLET@4'

1/30/2025 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E5A0723-01 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B5A30 49	01/30/2025	02/03/2025	
Surrogate: 4-Bromofluorobenzene	92.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.02		0.499	meq/L	10	[CALC]	01/31/2025	02/05/2025	
Magnesium	0.869		0.823	"	"	"	"	"	
Sodium	1.36		0.435	"	"	"	"	"	

PAH by SW8270

1-Methylnaphthalene	ND	0.00290	0.00600	mg/kg	1	BIB0107	02/05/2025	02/06/2025	
2-Methylnaphthalene	ND	0.00726	0.0150	"	"	"	"	"	
Acenaphthene	ND	0.0403	0.0833	"	"	"	"	"	
Anthracene	ND	0.0403	0.0833	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00532	0.0110	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0403	0.0833	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0403	0.0833	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0403	0.0833	"	"	"	"	"	
Chrysene	ND	0.0403	0.0833	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0403	0.0833	"	"	"	"	"	
Fluoranthene	ND	0.0403	0.0833	"	"	"	"	"	

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SEP-INLET@4'

1/30/2025 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Enthalpy Analytical
 E5A0723-01 (Soil)**

PAH by SW8270

Fluorene	ND	0.0403	0.0833	mg/kg	1	BIB0107	02/05/2025	02/06/2025	
Indeno (1,2,3-cd) pyrene	ND	0.0403	0.0833	"	"	"	"	"	"
Naphthalene	ND	0.00184	0.00380	"	"	"	"	"	"
Pyrene	ND	0.0403	0.0833	"	"	"	"	"	"

Surrogate: 2,4,6-Tribromophenol (Surr)	48.0 %		15-96			"	"	"	"
Surrogate: 2-Fluorobiphenyl (Surr)	23.0 %		19-105			"	"	"	"
Surrogate: 2-Fluorophenol (Surr)	61.8 %		12-95			"	"	"	"
Surrogate: Nitrobenzene-d5 (Surr)	51.1 %		21-100			"	"	"	"
Surrogate: Phenol-d5 (Surr)	59.8 %		13-100			"	"	"	"
Surrogate: p-Terphenyl-d14 (Surr)	36.4 %		25-125			"	"	"	"

pH in Soil by 9045D

pH	8.34			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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SAR by 20B Saturated Paste

SAR	1.13		0.0100	SAR	1	B5A3109	01/31/2025	02/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.474		0.00500	mmhos/cm	1	B5A3112	01/31/2025	02/04/2025	
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SEP-INLET@4'

1/30/2025 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E5A0723-01 (Soil)**

Table 915 metals by EPA 6020B

Arsenic	1.36		0.267	mg/kg	10	B5A3117	01/31/2025	02/03/2025	
Barium	39.4		9.22	"	"	"	"	"	
Cadmium	ND		0.0922	"	"	"	"	"	
Copper	ND		9.22	"	"	"	"	"	
Lead	6.74		0.922	"	"	"	"	"	
Nickel	3.91		0.922	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0922	"	"	"	"	"	
Zinc	ND		34.1	"	"	"	"	"	

TOTAL METALS BY SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB1083	02/25/2025	02/25/2025	
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SEP-OUTLET@4'
1/30/2025 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.405		0.0990	mg/L	1	B5A3105	01/31/2025	02/03/2025	
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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: <i>o</i> -Terphenyl	85.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5A3049	01/30/2025	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	104 %		70-130			"	"	"	

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SEP-OUTLET@4'
1/30/2025 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	91.2 %	70-130	B5A30 49	01/30/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	2.30	0.499	meq/L	10	[CALC]	01/31/2025	02/05/2025
Magnesium	0.964	0.823	"	"	"	"	"
Sodium	1.75	0.435	"	"	"	"	"

PAH by SW8270

1-Methylnaphthalene	ND	0.00297	0.00600	mg/kg	1	BIB0107	02/05/2025	02/06/2025
2-Methylnaphthalene	ND	0.00743	0.0150	"	"	"	"	"
Acenaphthene	ND	0.0412	0.0833	"	"	"	"	"
Anthracene	ND	0.0412	0.0833	"	"	"	"	"
Benzo (a) anthracene	ND	0.00545	0.0110	"	"	"	"	"
Benzo (a) pyrene	ND	0.0412	0.0833	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.0412	0.0833	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.0412	0.0833	"	"	"	"	"
Chrysene	ND	0.0412	0.0833	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.0412	0.0833	"	"	"	"	"
Fluoranthene	ND	0.0412	0.0833	"	"	"	"	"
Fluorene	ND	0.0412	0.0833	"	"	"	"	"

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SEP-OUTLET@4'
1/30/2025 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Enthalpy Analytical
E5A0723-02 (Soil)

PAH by SW8270

Indeno (1,2,3-cd) pyrene	ND	0.0412	0.0833	mg/kg	1	BIB0107	02/05/2025	02/06/2025	
Naphthalene	ND	0.00188	0.00380	"	"	"	"	"	"
Pyrene	ND	0.0412	0.0833	"	"	"	"	"	"

Surrogate: 2,4,6-Tribromophenol (Surr)	64.4 %		15-96			"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)	42.8 %		19-105			"	"	"	
Surrogate: 2-Fluorophenol (Surr)	75.5 %		12-95			"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)	62.4 %		21-100			"	"	"	
Surrogate: Phenol-d5 (Surr)	71.2 %		13-100			"	"	"	
Surrogate: p-Terphenyl-d14 (Surr)	59.6 %		25-125			"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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SAR by 20B Saturated Paste

SAR	1.37		0.0100	SAR	1	B5A3109	01/31/2025	02/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.528		0.00500	mmhos/cm	1	B5A3112	01/31/2025	02/04/2025	
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Table 915 metals by EPA 6020B

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SEP-OUTLET@4'
1/30/2025 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.35		0.264	mg/kg	10	B5A3117	01/31/2025	02/03/2025	
Barium	62.8		9.09	"	"	"	"	"	
Cadmium	ND		0.0909	"	"	"	"	"	
Copper	ND		9.09	"	"	"	"	"	
Lead	8.98		0.909	"	"	"	"	"	
Nickel	5.98		0.909	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.0909	"	"	"	"	"	
Zinc	33.9		33.6	"	"	"	"	"	

TOTAL METALS BY SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB1083	02/25/2025	02/25/2025	
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PWV-B01@4'

1/30/2025 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.131		0.0993	mg/L	1	B5A3105	01/31/2025	02/03/2025	
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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	88.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.407		0.0500	mg/kg	25	B5A3049	01/30/2025	02/04/2025	
1,3,5-Trimethylbenzene	ND		0.00200	"	1	"	"	02/03/2025	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.0241		0.00200	"	"	"	"	"	
Toluene	0.00246		0.00200	"	"	"	"	"	
Xylenes, total	0.00514		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	54.9		5.00	"	25	"	"	02/04/2025	

Surrogate: 1,2-Dichloroethane-d4	97.2 %		70-130			"	"	02/03/2025	
Surrogate: Toluene-d8	262 %		70-130			"	"	"	S-GC

Origins Laboratory

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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417275
 Project: KMG - French, Frahm 9 & 16-34 OSA
 Facility Closure

PWV-B01@4'

1/30/2025 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 270 % 70-130 B5A30 01/30/2025 02/03/2025 GC
 49

Metals by Saturated Paste by EPA 6010

Calcium	2.79	0.499	meq/L	10	[CALC]	01/31/2025	02/05/2025
Magnesium	0.950	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by SW8270

1-Methylnaphthalene	0.0131	0.00285	0.00600	mg/kg	1	BIB0107	02/05/2025	02/06/2025
2-Methylnaphthalene	0.0316	0.00712	0.0150	"	"	"	"	"
Acenaphthene	ND	0.0395	0.0833	"	"	"	"	"
Anthracene	ND	0.0395	0.0833	"	"	"	"	"
Benzo (a) anthracene	ND	0.00522	0.0110	"	"	"	"	"
Benzo (a) pyrene	ND	0.0395	0.0833	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.0395	0.0833	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.0395	0.0833	"	"	"	"	"
Chrysene	ND	0.0395	0.0833	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.0395	0.0833	"	"	"	"	"
Fluoranthene	ND	0.0395	0.0833	"	"	"	"	"
Fluorene	ND	0.0395	0.0833	"	"	"	"	"

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PWV-B01@4'

1/30/2025 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Enthalpy Analytical
 E5A0723-03 (Soil)**

PAH by SW8270

Indeno (1,2,3-cd) pyrene	ND	0.0395	0.0833	mg/kg	1	BIB0107	02/05/2025	02/06/2025	
Naphthalene	0.00759	0.00180	0.00380	"	"	"	"	"	"
Pyrene	ND	0.0395	0.0833	"	"	"	"	"	"

Surrogate: 2,4,6-Tribromophenol (Surr)	79.7 %		15-96			"	"	"	"
Surrogate: 2-Fluorobiphenyl (Surr)	39.0 %		19-105			"	"	"	"
Surrogate: 2-Fluorophenol (Surr)	88.5 %		12-95			"	"	"	"
Surrogate: Nitrobenzene-d5 (Surr)	70.0 %		21-100			"	"	"	"
Surrogate: Phenol-d5 (Surr)	82.8 %		13-100			"	"	"	"
Surrogate: p-Terphenyl-d14 (Surr)	57.2 %		25-125			"	"	"	"

pH in Soil by 9045D

pH	8.37			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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SAR by 20B Saturated Paste

SAR	0.306		0.0100	SAR	1	B5A3109	01/31/2025	02/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.455		0.00500	mmhos/cm	1	B5A3112	01/31/2025	02/04/2025	
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Table 915 metals by EPA 6020B

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PWV-B01@4'

1/30/2025 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.82		0.269	mg/kg	10	B5A3117	01/31/2025	02/03/2025	
Barium	36.6		9.28	"	"	"	"	"	"
Cadmium	0.111		0.0928	"	"	"	"	"	"
Copper	ND		9.28	"	"	"	"	"	"
Lead	5.41		0.928	"	"	"	"	"	"
Nickel	4.57		0.928	"	"	"	"	"	"
Selenium	ND		0.241	"	"	"	"	"	"
Silver	ND		0.0928	"	"	"	"	"	"
Zinc	ND		34.3	"	"	"	"	"	"

TOTAL METALS BY SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB1083	02/25/2025	02/25/2025	
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PWV-S01@3'

1/30/2025 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.282		0.0987	mg/L	1	B5A3105	01/31/2025	02/03/2025	
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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	B5A3049	01/30/2025	02/04/2025	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	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	106 %		70-130			"	"	"	

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 Project: KMG - French, Frahm 9 & 16-34 OSA
 Facility Closure

PWV-S01@3'

1/30/2025 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	99.0 %	70-130	B5A30 49	01/30/2025	02/04/2025
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Metals by Saturated Paste by EPA 6010

Calcium	2.21	0.499	meq/L	10	[CALC]	01/31/2025	02/05/2025
Magnesium	1.04	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by SW8270

1-Methylnaphthalene	ND	0.00295	0.00600	mg/kg	1	BIB0107	02/05/2025	02/06/2025
2-Methylnaphthalene	ND	0.00738	0.0150	"	"	"	"	"
Acenaphthene	ND	0.0410	0.0833	"	"	"	"	"
Anthracene	ND	0.0410	0.0833	"	"	"	"	"
Benzo (a) anthracene	ND	0.00541	0.0110	"	"	"	"	"
Benzo (a) pyrene	ND	0.0410	0.0833	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.0410	0.0833	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.0410	0.0833	"	"	"	"	"
Chrysene	ND	0.0410	0.0833	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.0410	0.0833	"	"	"	"	"
Fluoranthene	ND	0.0410	0.0833	"	"	"	"	"
Fluorene	ND	0.0410	0.0833	"	"	"	"	"

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 Project: KMG - French, Frahm 9 & 16-34 OSA
 Facility Closure

PWV-S01@3'

1/30/2025 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Enthalpy Analytical
 E5A0723-04 (Soil)**

PAH by SW8270

Indeno (1,2,3-cd) pyrene	ND	0.0410	0.0833	mg/kg	1	BIB0107	02/05/2025	02/06/2025	
Naphthalene	ND	0.00187	0.00380	"	"	"	"	"	"
Pyrene	ND	0.0410	0.0833	"	"	"	"	"	"

Surrogate: 2,4,6-Tribromophenol (Surr)	54.9 %		15-96			"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)	25.2 %		19-105			"	"	"	
Surrogate: 2-Fluorophenol (Surr)	76.0 %		12-95			"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)	57.5 %		21-100			"	"	"	
Surrogate: Phenol-d5 (Surr)	66.6 %		13-100			"	"	"	
Surrogate: p-Terphenyl-d14 (Surr)	50.7 %		25-125			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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SAR by 20B Saturated Paste

SAR	0.338		0.0100	SAR	1	B5A3109	01/31/2025	02/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.380		0.00500	mmhos/cm	1	B5A3112	01/31/2025	02/04/2025	
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Table 915 metals by EPA 6020B

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Jeremy Espinoza
 Project Number: 09A1417275
 Project: KMG - French, Frahm 9 & 16-34 OSA
 Facility Closure

PWV-S01@3'

1/30/2025 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.23	0.263	mg/kg	10	B5A3117	01/31/2025	02/03/2025	
Barium	82.0	9.06	"	"	"	"	"	"
Cadmium	0.168	0.0906	"	"	"	"	"	"
Copper	11.6	9.06	"	"	"	"	"	"
Lead	10.7	0.906	"	"	"	"	"	"
Nickel	6.75	0.906	"	"	"	"	"	"
Selenium	ND	0.236	"	"	"	"	"	"
Silver	ND	0.0906	"	"	"	"	"	"
Zinc	39.6	33.5	"	"	"	"	"	"

TOTAL METALS BY SW7196

Chromium, Hexavalent	ND	0.19	0.19	mg/kg	1	BIB1083	02/25/2025	02/25/2025
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Origins Laboratory

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ORIGINS LABORATORY

Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417275
Project: KMG - French, Frahm 9 & 16-34 OSA
Facility Closure

AST01@1.5'

1/30/2025 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E5A0723-05 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.541		0.0990	mg/L	1	B5A3105	01/31/2025	02/03/2025	
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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	88.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5A3049	01/30/2025	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	0.363		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	

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Jeremy Espinoza
Project Number: 09A1417275
Project: KMG - French, Frahm 9 & 16-34 OSA
Facility Closure

AST01@1.5'
1/30/2025 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	93.5 %	70-130	B5A30 49	01/30/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	2.47	0.499	meq/L	10	[CALC]	01/31/2025	02/05/2025
Magnesium	1.53	0.823	"	"	"	"	"
Sodium	3.65	0.435	"	"	"	"	"

PAH by SW8270

1-Methylnaphthalene	ND	0.00297	0.00600	mg/kg	1	BIB0107	02/05/2025	02/06/2025
2-Methylnaphthalene	ND	0.00743	0.0150	"	"	"	"	"
Acenaphthene	ND	0.0412	0.0833	"	"	"	"	"
Anthracene	ND	0.0412	0.0833	"	"	"	"	"
Benzo (a) anthracene	ND	0.00545	0.0110	"	"	"	"	"
Benzo (a) pyrene	ND	0.0412	0.0833	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.0412	0.0833	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.0412	0.0833	"	"	"	"	"
Chrysene	ND	0.0412	0.0833	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.0412	0.0833	"	"	"	"	"
Fluoranthene	ND	0.0412	0.0833	"	"	"	"	"
Fluorene	ND	0.0412	0.0833	"	"	"	"	"

Origins Laboratory

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Jeremy Espinoza
 Project Number: 09A1417275
 Project: KMG - French, Frahm 9 & 16-34 OSA
 Facility Closure

AST01@1.5'
1/30/2025 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Enthalpy Analytical
 E5A0723-05 (Soil)**

PAH by SW8270

Indeno (1,2,3-cd) pyrene	ND	0.0412	0.0833	mg/kg	1	BIB0107	02/05/2025	02/06/2025	
Naphthalene	ND	0.00188	0.00380	"	"	"	"	"	"
Pyrene	ND	0.0412	0.0833	"	"	"	"	"	"

Surrogate: 2,4,6-Tribromophenol (Surr)	74.6 %		15-96			"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)	30.5 %		19-105			"	"	"	
Surrogate: 2-Fluorophenol (Surr)	72.1 %		12-95			"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)	56.6 %		21-100			"	"	"	
Surrogate: Phenol-d5 (Surr)	66.2 %		13-100			"	"	"	
Surrogate: p-Terphenyl-d14 (Surr)	52.1 %		25-125			"	"	"	

pH in Soil by 9045D

pH	8.36			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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SAR by 20B Saturated Paste

SAR	2.58		0.0100	SAR	1	B5A3109	01/31/2025	02/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.764		0.00500	mmhos/cm	1	B5A3112	01/31/2025	02/04/2025	
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Table 915 metals by EPA 6020B

Origins Laboratory

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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417275
 Project: KMG - French, Frahm 9 & 16-34 OSA
 Facility Closure

AST01@1.5'

1/30/2025 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.54		0.254	mg/kg	10	B5A3117	01/31/2025	02/03/2025	
Barium	54.4		8.77	"	"	"	"	"	"
Cadmium	0.0921		0.0877	"	"	"	"	"	"
Copper	ND		8.77	"	"	"	"	"	"
Lead	5.83		0.877	"	"	"	"	"	"
Nickel	4.48		0.877	"	"	"	"	"	"
Selenium	ND		0.228	"	"	"	"	"	"
Silver	ND		0.0877	"	"	"	"	"	"
Zinc	ND		32.4	"	"	"	"	"	"

TOTAL METALS BY SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB1083	02/25/2025	02/25/2025	
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Origins Laboratory

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417275
 Project: KMG - French, Frahm 9 & 16-34 OSA
 Facility Closure

FL01@3'

1/30/2025 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E5A0723-06 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.393		0.0998	mg/L	1	B5A3105	01/31/2025	02/03/2025	
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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: <i>o</i> -Terphenyl	87.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5A3049	01/30/2025	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	1.33		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	107 %		70-130			"	"	"	

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Jeremy Espinoza
 Project Number: 09A1417275
 Project: KMG - French, Frahm 9 & 16-34 OSA
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FL01@3'

1/30/2025 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	83.6 %	70-130	B5A30 49	01/30/2025	02/03/2025
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Metals by Saturated Paste by EPA 6010

Calcium	5.58	0.499	meq/L	10	[CALC]	01/31/2025	02/05/2025
Magnesium	2.40	0.823	"	"	"	"	"
Sodium	4.70	0.435	"	"	"	"	"

PAH by SW8270

1-Methylnaphthalene	ND	0.00290	0.00600	mg/kg	1	BIB0107	02/05/2025	02/06/2025
2-Methylnaphthalene	ND	0.00726	0.0150	"	"	"	"	"
Acenaphthene	ND	0.0403	0.0833	"	"	"	"	"
Anthracene	ND	0.0403	0.0833	"	"	"	"	"
Benzo (a) anthracene	ND	0.00532	0.0110	"	"	"	"	"
Benzo (a) pyrene	ND	0.0403	0.0833	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.0403	0.0833	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.0403	0.0833	"	"	"	"	"
Chrysene	ND	0.0403	0.0833	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.0403	0.0833	"	"	"	"	"
Fluoranthene	ND	0.0403	0.0833	"	"	"	"	"
Fluorene	ND	0.0403	0.0833	"	"	"	"	"

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FL01@3'

1/30/2025 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Enthalpy Analytical
E5A0723-06 (Soil)**

PAH by SW8270

Indeno (1,2,3-cd) pyrene	ND	0.0403	0.0833	mg/kg	1	BIB0107	02/05/2025	02/06/2025	
Naphthalene	ND	0.00184	0.00380	"	"	"	"	"	"
Pyrene	ND	0.0403	0.0833	"	"	"	"	"	"

Surrogate: 2,4,6-Tribromophenol (Surr)	48.5 %		15-96			"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)	16.9 %		19-105			"	"	"	S
Surrogate: 2-Fluorophenol (Surr)	61.4 %		12-95			"	"	"	
Surrogate: Nitrobenzene-d5 (Surr)	44.6 %		21-100			"	"	"	
Surrogate: Phenol-d5 (Surr)	55.5 %		13-100			"	"	"	
Surrogate: p-Terphenyl-d14 (Surr)	39.7 %		25-125			"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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SAR by 20B Saturated Paste

SAR	2.35		0.0100	SAR	1	B5A3109	01/31/2025	02/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.29		0.00500	mmhos/cm	1	B5A3112	01/31/2025	02/04/2025	
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Table 915 metals by EPA 6020B

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FL01@3'

1/30/2025 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.33		0.268	mg/kg	10	B5A3117	01/31/2025	02/03/2025	
Barium	60.4		9.25	"	"	"	"	"	
Cadmium	0.102		0.0925	"	"	"	"	"	
Copper	ND		9.25	"	"	"	"	"	
Lead	6.77		0.925	"	"	"	"	"	
Nickel	5.55		0.925	"	"	"	"	"	
Selenium	ND		0.241	"	"	"	"	"	
Silver	ND		0.0925	"	"	"	"	"	
Zinc	ND		34.2	"	"	"	"	"	

TOTAL METALS BY SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB1083	02/25/2025	02/25/2025	
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TB-BG01@0.5'
1/30/2025 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.137		0.0985	mg/L	1	B5A3105	01/31/2025	02/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.15		0.499	meq/L	10	[CALC]	01/31/2025	02/05/2025	
Magnesium	0.847		0.823	"	"	"	"	"	
Sodium	1.93		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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SAR by 20B Saturated Paste

SAR	1.94		0.0100	SAR	1	B5A3109	01/31/2025	02/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.616		0.00500	mmhos/cm	1	B5A3112	01/31/2025	02/04/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.96		0.255	mg/kg	10	B5A3117	01/31/2025	02/03/2025	
Barium	26.4		8.80	"	"	"	"	"	
Cadmium	0.185		0.0880	"	"	"	"	"	
Copper	ND		8.80	"	"	"	"	"	

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TB-BG01@0.5'
1/30/2025 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-07 (Soil)

Table 915 metals by EPA 6020B

Lead	5.90		0.880	mg/kg	10	B5A3117	01/31/2025	02/03/2025	
Nickel	3.69		0.880	"	"	"	"	"	
Selenium	ND		0.229	"	"	"	"	"	
Silver	ND		0.0880	"	"	"	"	"	
Zinc	ND		32.6	"	"	"	"	"	

TOTAL METALS BY SW7196

Chromium, Hexavalent	ND	0.20	0.20	mg/kg	1	BIB1083	02/25/2025	02/25/2025	
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SEP-INLET@4'-V

1/30/2025 10:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E5A0723-08 (Soil)

pH in Soil by 9045D

pH	8.36			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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Facility Closure

SEP-OUTLET@4'-V
1/30/2025 10:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-09 (Soil)

pH in Soil by 9045D

pH	8.40			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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PWV-B01@4'-V

1/30/2025 11:21:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E5A0723-10 (Soil)

pH in Soil by 9045D

pH	8.43			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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PWV-S01@3'-V

1/30/2025 11:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-11 (Soil)

pH in Soil by 9045D

pH	8.37			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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Facility Closure

AST01@1.5'-V

1/30/2025 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E5A0723-12 (Soil)

pH in Soil by 9045D

pH	8.38			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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FL01@3'-V

1/30/2025 1:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5A0723-13 (Soil)

pH in Soil by 9045D

pH	8.13			pH Units	1	B5A3112	01/31/2025	02/04/2025	
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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 B5A3049 - EPA 5030 (soil)

Blank (B5A3049-BLK1)

Prepared: 01/30/2025 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		94.6	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.6	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 B5A3049 - EPA 5030 (soil)

LCS (B5A3049-BS1)

Prepared: 01/30/2025 Analyzed: 02/02/2025

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Toluene	0.0960	0.00200	"	0.100		96.0	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.209	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	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 B5A3049 - EPA 5030 (soil)

Matrix Spike (B5A3049-MS1)

Source: E5A0721-01

Prepared: 01/30/2025 Analyzed: 02/02/2025

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	0.0429	62.2	70-130			QM-07
1,3,5-Trimethylbenzene	0.0975	0.00200	"	0.100	0.0155	82.0	70-130			
Benzene	0.0878	0.00200	"	0.100	ND	87.8	70-130			
Ethylbenzene	0.0970	0.00200	"	0.100	0.00316	93.8	70-130			
Toluene	0.0893	0.00200	"	0.100	ND	89.3	70-130			
o-Xylene	0.0931	0.00200	"	0.100	0.00170	91.4	70-130			
m,p-Xylene	0.196	0.00400	"	0.200	0.0105	92.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	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 B5A3049 - EPA 5030 (soil)

Matrix Spike Dup (B5A3049-MSD1)

Source: E5A0721-01

Prepared: 01/30/2025 Analyzed: 02/02/2025

1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100	0.0429	45.7	70-130	17.0	20	QM-07
1,3,5-Trimethylbenzene	0.0819	0.00200	"	0.100	0.0155	66.4	70-130	17.4	20	QM-07
Benzene	0.0815	0.00200	"	0.100	ND	81.5	70-130	7.44	20	
Ethylbenzene	0.0847	0.00200	"	0.100	0.00316	81.5	70-130	13.5	20	
Toluene	0.0813	0.00200	"	0.100	ND	81.3	70-130	9.45	20	
o-Xylene	0.0825	0.00200	"	0.100	0.00170	80.8	70-130	12.0	20	
m,p-Xylene	0.171	0.00400	"	0.200	0.0105	80.0	70-130	13.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.8	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 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
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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
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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 B5A3117 - EPA 3050B

Blank (B5A3117-BLK1)

Prepared: 01/31/2025 Analyzed: 02/03/2025

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 (B5A3117-BS1)

Prepared: 01/31/2025 Analyzed: 02/03/2025

Arsenic	4.34	0.290	mg/kg	5.00		86.9	80-120			
Barium	457	10.0	"	500		91.5	80-120			
Cadmium	4.43	0.100	"	5.00		88.6	80-120			
Copper	44.8	10.0	"	50.0		89.7	80-120			
Lead	4.51	1.00	"	5.00		90.2	80-120			
Nickel	4.50	1.00	"	5.00		90.1	80-120			
Selenium	4.94	0.260	"	5.00		98.9	80-120			
Silver	4.66	0.100	"	5.00		93.1	80-120			
Zinc	43.8	37.0	"	50.0		87.5	80-120			

Matrix Spike (B5A3117-MS1)

Source: E5A0723-01

Prepared: 01/31/2025 Analyzed: 02/03/2025

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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 B5A3117 - EPA 3050B

Matrix Spike (B5A3117-MS1)

Source: E5A0723-01

Prepared: 01/31/2025 Analyzed: 02/03/2025

Arsenic	6.28	0.280	mg/kg	4.83	1.36	102	75-125			
Barium	533	9.67	"	483	39.4	102	75-125			
Cadmium	4.76	0.0967	"	4.83	0.0350	97.7	75-125			
Copper	51.1	9.67	"	48.3	3.31	98.9	75-125			
Lead	11.7	0.967	"	4.83	6.74	103	75-125			
Nickel	9.00	0.967	"	4.83	3.91	105	75-125			
Selenium	5.11	0.251	"	4.83	ND	106	75-125			
Silver	4.82	0.0967	"	4.83	ND	99.8	75-125			
Zinc	65.3	35.8	"	48.3	20.9	91.8	75-125			

Matrix Spike Dup (B5A3117-MSD1)

Source: E5A0723-01

Prepared: 01/31/2025 Analyzed: 02/03/2025

Arsenic	5.85	0.256	mg/kg	4.41	1.36	102	75-125	7.15	20	
Barium	479	8.81	"	441	39.4	99.8	75-125	10.6	20	
Cadmium	4.21	0.0881	"	4.41	0.0350	94.8	75-125	12.2	20	
Copper	50.1	8.81	"	44.1	3.31	106	75-125	2.05	20	
Lead	10.7	0.881	"	4.41	6.74	89.2	75-125	9.46	20	
Nickel	8.60	0.881	"	4.41	3.91	106	75-125	4.54	20	
Selenium	4.83	0.229	"	4.41	ND	110	75-125	5.75	20	
Silver	4.30	0.0881	"	4.41	ND	97.5	75-125	11.5	20	
Zinc	60.2	32.6	"	44.1	20.9	89.3	75-125	7.99	20	

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Classical Chemistry Parameters - 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 B5A3105 - DTPA Sorbitol Preparation

Blank (B5A3105-BLK1)

Prepared: 01/31/2025 Analyzed: 02/03/2025

Boron ND 0.100 mg/L

Duplicate (B5A3105-DUP1)

Source: E5A0722-06

Prepared: 01/31/2025 Analyzed: 02/03/2025

Boron 0.0534 0.0997 mg/L 0.0596 11.0 50

Batch B5A3109 - Saturated Paste Metals

Blank (B5A3109-BLK1)

Prepared: 01/31/2025 Analyzed: 02/05/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B5A3109-DUP1)

Source: E5A0722-07

Prepared: 01/31/2025 Analyzed: 02/05/2025

Calcium PPM 14.0 10.0 mg/L 12.9 8.23 50

SAR ND 0.0100 SAR 0.159 200

Magnesium PPM 3.55 10.0 mg/L 3.12 12.9 50

Sodium PPM 2.72 10.0 " 2.45 10.4 50

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Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5A3112 - Saturated Paste pH/EC

Blank (B5A3112-BLK1)

Prepared: 01/31/2025 Analyzed: 02/04/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5A3112-DUP1)

Source: E5A0722-07

Prepared: 01/31/2025 Analyzed: 02/04/2025

Specific Conductance (EC)	0.159	0.00500	mmhos/cm		0.148			7.18	25	
pH	6.94		pH Units		6.69			3.67	25	

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PAH by SW8270 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BIB0107 - SW3550C/EPA600-MS

Blank (BIB0107-BLK1)

Prepared: 02/04/2025 Analyzed: 02/05/2025

1-Methylnaphthalene	ND	0.00600	mg/kg				-			
2-Methylnaphthalene	ND	0.0150	"				-			
Acenaphthene	ND	0.0833	"				-			
Anthracene	ND	0.0833	"				-			
Benzo (a) anthracene	ND	0.0110	"				-			
Benzo (a) pyrene	ND	0.0833	"				-			
Benzo (b) fluoranthene	ND	0.0833	"				-			
Benzo (k) fluoranthene	ND	0.0833	"				-			
Chrysene	ND	0.0833	"				-			
Dibenz (a,h) anthracene	ND	0.0833	"				-			
Fluoranthene	ND	0.0833	"				-			
Fluorene	ND	0.0833	"				-			
Indeno (1,2,3-cd) pyrene	ND	0.0833	"				-			
Naphthalene	ND	0.00380	"				-			
Pyrene	ND	0.0833	"				-			

Surrogate: 2,4,6-Tribromophenol (Surr)	2.59		"	3.33		77.8	15-96			
Surrogate: 2-Fluorobiphenyl (Surr)	1.12		"	1.67		67.3	19-105			
Surrogate: 2-Fluorophenol (Surr)	2.57		"	3.33		77.1	12-95			
Surrogate: Nitrobenzene-d5 (Surr)	1.12		"	1.67		67.0	21-100			
Surrogate: Phenol-d5 (Surr)	2.60		"	3.33		77.9	13-100			
Surrogate: p-Terphenyl-d14 (Surr)	1.41		"	1.67		84.6	25-125			

LCS (BIB0107-BS1)

Prepared: 02/04/2025 Analyzed: 02/05/2025

1-Methylnaphthalene	ND	0.0833	mg/kg				0-200			
2-Methylnaphthalene	ND	0.0833	"				70-130			
Acenaphthene	1.03	0.0833	"	1.67		61.8	24-110			
Anthracene	1.04	0.0833	"	1.67		62.3	25-117			

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**PAH by SW8270 - 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 BIB0107 - SW3550C/EPA600-MS

LCS (BIB0107-BS1)

Prepared: 02/04/2025 Analyzed: 02/05/2025

Benzo (a) anthracene	1.03	0.0833	mg/kg	1.67		61.5	25-127			
Benzo (a) pyrene	1.10	0.0833	"	1.67		65.7	18-127			
Benzo (b) fluoranthene	1.20	0.0833	"	1.67		72.2	20-132			
Benzo (k) fluoranthene	0.958	0.0833	"	1.67		57.5	14-136			
Chrysene	1.15	0.0833	"	1.67		68.8	21-141			
Dibenz (a,h) anthracene	1.26	0.0833	"	1.67		75.4	10-142			
Fluoranthene	1.10	0.0833	"	1.67		66.1	19-138			
Fluorene	0.959	0.0833	"	1.67		57.6	25-114			
Indeno (1,2,3-cd) pyrene	1.14	0.0833	"	1.67		68.5	10-136			
Naphthalene	0.912	0.0833	"	1.67		54.7	18-109			
Pyrene	1.08	0.0833	"	1.67		65.0	17-159			
Surrogate: 2,4,6-Tribromophenol (Surr)	2.14		"	3.33		64.1	15-96			
Surrogate: 2-Fluorobiphenyl (Surr)	0.891		"	1.67		53.5	19-105			
Surrogate: 2-Fluorophenol (Surr)	2.01		"	3.33		60.3	12-95			
Surrogate: Nitrobenzene-d5 (Surr)	0.903		"	1.67		54.2	21-100			
Surrogate: Phenol-d5 (Surr)	2.09		"	3.33		62.6	13-100			
Surrogate: p-Terphenyl-d14 (Surr)	1.10		"	1.67		66.2	25-125			

Matrix Spike (BIB0107-MS1)

Source: 25B0107-05

Prepared: 02/04/2025 Analyzed: 02/05/2025

1-Methylnaphthalene	ND	0.0833	mg/kg		ND		0-200			
2-Methylnaphthalene	ND	0.0833	"		ND		70-130			
Acenaphthene	0.889	0.0833	"	1.60	ND	55.5	10-124			
Anthracene	0.869	0.0833	"	1.60	ND	54.2	10-143			
Benzo (a) anthracene	0.854	0.0833	"	1.60	ND	53.3	10-169			
Benzo (a) pyrene	0.895	0.0833	"	1.60	ND	55.8	10-149			
Benzo (b) fluoranthene	0.901	0.0833	"	1.60	ND	56.2	10-150			
Benzo (k) fluoranthene	0.859	0.0833	"	1.60	ND	53.6	10-211			

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**PAH by SW8270 - 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 BIB0107 - SW3550C/EPA600-MS

Matrix Spike (BIB0107-MS1)

Source: 25B0107-05

Prepared: 02/04/2025 Analyzed: 02/05/2025

Chrysene	0.901	0.0833	mg/kg	1.60	ND	56.2	10-172			
Dibenz (a,h) anthracene	0.978	0.0833	"	1.60	ND	61.0	10-128			
Fluoranthene	0.871	0.0833	"	1.60	ND	54.3	10-271			
Fluorene	0.833	0.0833	"	1.60	ND	52.0	10-124			
Indeno (1,2,3-cd) pyrene	0.890	0.0833	"	1.60	ND	55.5	10-127			
Naphthalene	0.769	0.0833	"	1.60	ND	48.0	10-118			
Pyrene	0.919	0.0833	"	1.60	ND	57.4	10-212			
Surrogate: 2,4,6-Tribromophenol (Surr)	1.76		"	3.21		54.9	15-96			
Surrogate: 2-Fluorobiphenyl (Surr)	0.745		"	1.60		46.5	19-105			
Surrogate: 2-Fluorophenol (Surr)	0.922		"	3.21		28.8	12-95			
Surrogate: Nitrobenzene-d5 (Surr)	0.735		"	1.60		45.8	21-100			
Surrogate: Phenol-d5 (Surr)	1.72		"	3.21		53.6	13-100			
Surrogate: p-Terphenyl-d14 (Surr)	0.939		"	1.60		58.6	25-125			

Matrix Spike Dup (BIB0107-MSD1)

Source: 25B0107-05

Prepared: 02/04/2025 Analyzed: 02/05/2025

1-Methylnaphthalene	ND	0.0833	mg/kg		ND		0-200		20	
2-Methylnaphthalene	ND	0.0833	"		ND		70-130		20	
Acenaphthene	1.03	0.0833	"	1.58	ND	65.1	10-124	14.8	20	
Anthracene	0.979	0.0833	"	1.58	ND	61.9	10-143	11.9	20	
Benzo (a) anthracene	0.934	0.0833	"	1.58	ND	59.0	10-169	8.94	20	
Benzo (a) pyrene	0.990	0.0833	"	1.58	ND	62.6	10-149	10.1	20	
Benzo (b) fluoranthene	0.947	0.0833	"	1.58	ND	59.9	10-150	5.03	20	
Benzo (k) fluoranthene	0.949	0.0833	"	1.58	ND	60.0	10-211	10.0	20	
Chrysene	0.988	0.0833	"	1.58	ND	62.4	10-172	9.20	20	
Dibenz (a,h) anthracene	1.08	0.0833	"	1.58	ND	68.4	10-128	10.1	20	
Fluoranthene	0.963	0.0833	"	1.58	ND	60.9	10-271	10.1	20	
Fluorene	0.973	0.0833	"	1.58	ND	61.5	10-124	15.5	20	

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**PAH by SW8270 - 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 BIB0107 - SW3550C/EPA600-MS

Matrix Spike Dup (BIB0107-MSD1)

Source: 25B0107-05

Prepared: 02/04/2025 Analyzed: 02/05/2025

Indeno (1,2,3-cd) pyrene	0.998	0.0833	mg/kg	1.58	ND	63.1	10-127	11.4	20	
Naphthalene	0.911	0.0833	"	1.58	ND	57.5	10-118	16.9	20	
Pyrene	0.962	0.0833	"	1.58	ND	60.8	10-212	4.50	20	
Surrogate: 2,4,6-Tribromophenol (Surr)	2.01		"	3.16		63.4	15-96			
Surrogate: 2-Fluorobiphenyl (Surr)	0.857		"	1.58		54.1	19-105			
Surrogate: 2-Fluorophenol (Surr)	1.97		"	3.16		62.3	12-95			
Surrogate: Nitrobenzene-d5 (Surr)	0.875		"	1.58		55.3	21-100			
Surrogate: Phenol-d5 (Surr)	2.01		"	3.16		63.7	13-100			
Surrogate: p-Terphenyl-d14 (Surr)	0.952		"	1.58		60.1	25-125			

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TOTAL METALS BY SW7196 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIB1083 - No Prep Wet Chem										
Blank (BIB1083-BLK1)										
					Prepared: 02/25/2025 Analyzed: 02/25/2025					
Chromium, Hexavalent	ND	0.005	mg/kg				-			
LCS (BIB1083-BS1)										
					Prepared: 02/25/2025 Analyzed: 02/25/2025					
Chromium, Hexavalent	0.04	0.005	mg/kg	0.0500		86.0	80-120			
LCS (BIB1083-BS2)										
					Prepared: 02/25/2025 Analyzed: 02/25/2025					
Chromium, Hexavalent	8.60	1.00	mg/kg	8.63		99.7	80-120			
Matrix Spike (BIB1083-MS1)										
		Source: 25B0114-05			Prepared: 02/25/2025 Analyzed: 02/25/2025					
Chromium, Hexavalent	1.57	0.20	mg/kg	1.97	ND	80.0	75-125			
Matrix Spike Dup (BIB1083-MSD1)										
		Source: 25B0114-05			Prepared: 02/25/2025 Analyzed: 02/25/2025					
Chromium, Hexavalent	1.53	0.20	mg/kg	1.96	ND	78.0	75-125	3.03	20	

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Notes and Definitions

- U Sample is Non-Detect.
 - S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
 - S Surrogate recovery was outside acceptance criteria
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - P Duplicate analysis does not meet the acceptance criteria for precision
 - M Matrix spike recovery is outside established acceptance limits
 - L LCS recovery is outside of established acceptance limits
 - 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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