



Blue Star Helium

Peter Kondrat

5 Tamarade Dr.

Littleton

CO

80127

June 24, 2025

Project Name - State #9

Project Number - [none]

Attached are your analytical results for State #9 received by Origins Laboratory June 02, 2025. This project is associated with Origins project number E5F0018-01.

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



Blue Star Helium

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Peter Kondrat

Project Number: [none]

Project: State #9

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ST9 S1	E5F0018-01	Soil	June 2, 2025 8:30	06/02/2025 13:47
ST9 S2	E5F0018-02	Soil	June 2, 2025 8:30	06/02/2025 13:47
ST9 S3	E5F0018-03	Soil	June 2, 2025 8:30	06/02/2025 13:47

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Project Number: [none]

Project: State #9

Page ____ of ____

ORIGINS
LABORATORY

Origins Laboratory

EHO

Client: Blue Star Helium
Address: 10567 Wagon Dr. Clr
Telephone Number: H. G. Hous Ranch, Co 80126
Email Address: 970-759-5370

Project Manager: Pete Kondrat
Project Name: State #9
Project Number: _____
Collected By: _____
Invoice/Billing Info: _____

Key: W=Water
GW=Groundwater
SW=Surface Water
WW=Waste Water
L=Liquid
S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis										Comments	Turnaround Time
						1	2	3	4	5	6	7	8	9	10		
1	519 S1	6/25	8:30	2	9151												<input type="checkbox"/> SAME DAY <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 <input type="checkbox"/> Standard
2	519 S2	6/25	8:30	2	9151												
3	519 S3	6/25	8:30	2	9151												
4																	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5																	
6																	
7																	Received On Ice? <u>YES</u> Temp Received <u>4.4°C</u>
8																	
9																	
Relinquished By: <u>[Signature]</u>		Date: <u>6/25</u>	Time: <u>1:45pm</u>	Received By: <u>[Signature]</u>	Date: <u>6/25</u>	Time: <u>13:47</u>											
Relinquished By: <u>[Signature]</u>		Date: <u>6/25</u>	Time: <u>1:45pm</u>	Received By: <u>[Signature]</u>	Date: <u>6/25</u>	Time: <u>13:47</u>											

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Blue Star Helium

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Project Number: [none]

Project: State #9

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: E5F0018

Client: Blue Star Helium

Client Project ID: State #9

Checklist Completed by: PAE/NKM

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/2/25

Airbill #: N/A RFF 6/2/25

Matrix(s) Received: (Check all that apply) ☒ Soil/Solid ☐ Water ☐ Other: _____ (Describe)

Cooler Number/Temperature: 1 14.4 °C 1 °C 1 °C 1 °C

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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) JB

Date/Time Reviewed 6-3-25

Origins Laboratory

EHO

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Blue Star Helium

5 Tamarade Dr.

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Peter Kondrat

Project Number: [none]

Project: State #9

ST9 S1

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0018-01 (Soil)
Enthalpy Analytical

TOTAL METALS BY SW7199

Chromium, Hexavalent	ND	0.20	mg/kg	1	BIF0933	06/18/2025	06/20/2025	
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.770	0.0997	mg/L	1	B5F0304	06/03/2025	06/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5F0303	06/03/2025	06/03/2025	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	65.1 %		50-150	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5F0332	06/03/2025	06/03/2025	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

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6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0018-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B5F0332	06/03/2025	06/03/2025	U
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Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	21.7	0.499	meq/L	10	[CALC]	06/04/2025	06/06/2025
Magnesium	4.05	0.823	"	"	"	"	"
Sodium	73.3	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5F0330	06/03/2025	06/03/2025	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U

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ST9 S1

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0018-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5F0330	06/03/2025	06/03/2025	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	103 %			60-130		"	"	"	
Surrogate: Anthracene-d10	105 %			60-130		"	"	"	
Surrogate: Pyrene-d10	105 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.19			pH Units	1	B5F0418	06/04/2025	06/06/2025	
SAR by 20B Saturated Paste									
SAR	20.4		0.0100	SAR	1	B5F0412	06/04/2025	06/06/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	8.75		0.00500	mmhos/cm	1	B5F0418	06/04/2025	06/06/2025	

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ST9 S1

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0018-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.32	0.257	mg/kg	10	B5F0321	06/03/2025	06/05/2025
Barium	111	72.6	"	"	"	"	"
Cadmium	ND	0.337	"	"	"	"	"
Copper	ND	40.8	"	"	"	"	"
Lead	ND	12.4	"	"	"	"	"
Nickel	ND	23.0	"	"	"	"	"
Selenium	ND	0.230	"	"	"	"	"
Silver	ND	0.709	"	"	"	"	"
Zinc	ND	328	"	"	"	"	"

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Project Number: [none]

Project: State #9

ST9 S2

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0018-02 (Soil)
Enthalpy Analytical

TOTAL METALS BY SW7199

Chromium, Hexavalent	ND	0.20	mg/kg	1	BIF0933	06/18/2025	06/20/2025	
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.378	0.0999	mg/L	1	B5F0304	06/03/2025	06/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5F0303	06/03/2025	06/03/2025	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.1 %		50-150	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5F0332	06/03/2025	06/03/2025	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

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ST9 S2

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0018-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B5F0332	06/03/2025	06/03/2025	U
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Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	96.0 %	70-130	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	21.8	0.499	meq/L	10	[CALC]	06/04/2025	06/06/2025
Magnesium	3.93	0.823	"	"	"	"	"
Sodium	73.2	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5F0330	06/03/2025	06/03/2025	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U

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Project Number: [none]

Project: State #9

ST9 S2

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0018-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND	0.020	mg/kg	1	B5F0330	06/03/2025	06/03/2025	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	104 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	105 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.6 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.14	pH Units	1	B5F0418	06/04/2025	06/06/2025
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SAR by 20B Saturated Paste

SAR	20.4	0.0100	SAR	1	B5F0412	06/04/2025	06/06/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.97	0.00500	mmhos/cm	1	B5F0418	06/04/2025	06/06/2025
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Project Number: [none]

Project: State #9

ST9 S2

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0018-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.43	0.256	mg/kg	10	B5F0321	06/03/2025	06/05/2025
Barium	145	72.4	"	"	"	"	"
Cadmium	ND	0.336	"	"	"	"	"
Copper	ND	40.6	"	"	"	"	"
Lead	ND	12.4	"	"	"	"	"
Nickel	ND	23.0	"	"	"	"	"
Selenium	ND	0.230	"	"	"	"	"
Silver	ND	0.707	"	"	"	"	"
Zinc	ND	327	"	"	"	"	"

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Project Number: [none]

Project: State #9

ST9 S3

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0018-03 (Soil)
Enthalpy Analytical

TOTAL METALS BY SW7199

Chromium, Hexavalent	ND	0.20	mg/kg	1	BIF0933	06/18/2025	06/20/2025	
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.309	0.0997	mg/L	1	B5F0304	06/03/2025	06/04/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5F0303	06/03/2025	06/03/2025	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.5 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5F0332	06/03/2025	06/03/2025	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

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Project Number: [none]

Project: State #9

ST9 S3

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0018-03 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B5F0332	06/03/2025	06/03/2025	U
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Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	98.8 %	70-130	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	22.3	0.499	meq/L	10	[CALC]	06/04/2025	06/06/2025
Magnesium	3.95	0.823	"	"	"	"	"
Sodium	70.5	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5F0330	06/03/2025	06/03/2025	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U

Origins Laboratory

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Peter Kondrat

Project Number: [none]

Project: State #9

ST9 S3

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5F0018-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5F0330	06/03/2025	06/03/2025	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	102 %			60-130		"	"	"	
Surrogate: Anthracene-d10	103 %			60-130		"	"	"	
Surrogate: Pyrene-d10	105 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.3 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.11			pH Units	1	B5F0418	06/04/2025	06/06/2025	
SAR by 20B Saturated Paste									
SAR	19.5		0.0100	SAR	1	B5F0412	06/04/2025	06/06/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	8.53		0.00500	mmhos/cm	1	B5F0418	06/04/2025	06/06/2025	

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Peter Kondrat

Project Number: [none]

Project: State #9

ST9 S3

6/2/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5F0018-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.08	0.250	mg/kg	10	B5F0321	06/03/2025	06/05/2025
Barium	ND	70.7	"	"	"	"	"
Cadmium	ND	0.328	"	"	"	"	"
Copper	ND	39.7	"	"	"	"	"
Lead	ND	12.1	"	"	"	"	"
Nickel	ND	22.4	"	"	"	"	"
Selenium	ND	0.224	"	"	"	"	"
Silver	ND	0.690	"	"	"	"	"
Zinc	ND	319	"	"	"	"	"

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Project: State #9

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 B5F0304 - DTPA Sorbitol Preparation

Blank (B5F0304-BLK1)

Prepared: 06/03/2025 Analyzed: 06/04/2025

Boron ND 0.100 mg/L

Duplicate (B5F0304-DUP1)

Source: E5F0018-01

Prepared: 06/03/2025 Analyzed: 06/04/2025

Boron 0.769 0.100 mg/L 0.770 0.0896 50

Batch B5F0412 - Saturated Paste Metals

Blank (B5F0412-BLK1)

Prepared: 06/04/2025 Analyzed: 06/06/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B5F0412-DUP1)

Source: E5E1034-01

Prepared: 06/04/2025 Analyzed: 06/06/2025

Calcium PPM 72.9 10.0 mg/L 73.7 1.06 50

SAR ND 0.0100 SAR 1.57 200

Magnesium PPM 19.8 10.0 mg/L 20.2 1.90 50

Sodium PPM 57.7 10.0 " 59.0 2.16 50

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Project Number: [none]

Project: State #9

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5F0330 - EPA 3580

Blank (B5F0330-BLK1)

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

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

LCS (B5F0330-BS1)

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

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200		106	70-130			
2-Methylnaphthalene	0.211	0.002	"	0.200		106	70-130			
Acenaphthene	0.220	0.020	"	0.200		110	70-130			
Anthracene	0.212	0.020	"	0.200		106	70-130			

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Project Number: [none]

Project: State #9

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5F0330 - EPA 3580

LCS (B5F0330-BS1)

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

Benzo (a) anthracene	0.222	0.005	mg/kg	0.200		111	70-130
Benzo (a) pyrene	0.202	0.020	"	0.200		101	70-130
Benzo (b) fluoranthene	0.187	0.020	"	0.200		93.6	70-130
Benzo (g,h,i) perylene	0.172	0.020	"	0.200		85.9	70-130
Benzo (k) fluoranthene	0.181	0.020	"	0.200		90.5	70-130
Chrysene	0.211	0.020	"	0.200		105	70-130
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		106	70-130
Fluoranthene	0.212	0.020	"	0.200		106	70-130
Fluorene	0.221	0.020	"	0.200		110	70-130
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200		103	70-130
Naphthalene	0.213	0.002	"	0.200		106	70-130
Phenanthrene	0.212	0.020	"	0.200		106	70-130
Pyrene	0.224	0.020	"	0.200		112	70-130

Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130
Surrogate: Anthracene-d10	200		"	200		101	60-130
Surrogate: Pyrene-d10	210		"	200		106	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.2	60-130

Matrix Spike (B5F0330-MS1)

Source: E5F0018-01

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

1-Methylnaphthalene	0.236	0.002	mg/kg	0.200	ND	118	70-130
2-Methylnaphthalene	0.236	0.002	"	0.200	ND	118	70-130
Acenaphthene	0.237	0.020	"	0.200	0.0006	118	70-130
Anthracene	0.234	0.020	"	0.200	ND	117	70-130
Benzo (a) anthracene	0.248	0.005	"	0.200	ND	124	70-130
Benzo (a) pyrene	0.227	0.020	"	0.200	0.0005	113	70-130
Benzo (b) fluoranthene	0.206	0.020	"	0.200	ND	103	70-130
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	0.0007	95.3	70-130

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Project Number: [none]

Project: State #9

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5F0330 - EPA 3580

Matrix Spike (B5F0330-MS1)				Source: E5F0018-01		Prepared: 06/03/2025 Analyzed: 06/03/2025				
Benzo (k) fluoranthene	0.200	0.020	mg/kg	0.200	ND	100	70-130			
Chrysene	0.216	0.020	"	0.200	0.0003	108	70-130			
Dibenz (a,h) anthracene	0.238	0.020	"	0.200	0.0006	119	70-130			
Fluoranthene	0.231	0.020	"	0.200	ND	116	70-130			
Fluorene	0.235	0.020	"	0.200	ND	118	70-130			
Indeno (1,2,3-cd) pyrene	0.227	0.020	"	0.200	ND	114	70-130			
Naphthalene	0.230	0.002	"	0.200	ND	115	70-130			
Phenanthrene	0.232	0.020	"	0.200	ND	116	70-130			
Pyrene	0.240	0.020	"	0.200	ND	120	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

Matrix Spike Dup (B5F0330-MSD1)				Source: E5F0018-01		Prepared: 06/03/2025 Analyzed: 06/03/2025				
1-Methylnaphthalene	0.240	0.002	mg/kg	0.200	ND	120	70-130	1.38	20	
2-Methylnaphthalene	0.240	0.002	"	0.200	ND	120	70-130	1.65	20	
Acenaphthene	0.238	0.020	"	0.200	0.0006	119	70-130	0.358	20	
Anthracene	0.236	0.020	"	0.200	ND	118	70-130	0.811	20	
Benzo (a) anthracene	0.246	0.005	"	0.200	ND	123	70-130	0.759	20	
Benzo (a) pyrene	0.226	0.020	"	0.200	0.0005	113	70-130	0.299	20	
Benzo (b) fluoranthene	0.212	0.020	"	0.200	ND	106	70-130	2.76	20	
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	0.0007	94.6	70-130	0.751	20	
Benzo (k) fluoranthene	0.202	0.020	"	0.200	ND	101	70-130	1.11	20	
Chrysene	0.222	0.020	"	0.200	0.0003	111	70-130	2.64	20	
Dibenz (a,h) anthracene	0.243	0.020	"	0.200	0.0006	121	70-130	2.10	20	
Fluoranthene	0.233	0.020	"	0.200	ND	117	70-130	0.864	20	

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Project Number: [none]

Project: State #9

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5F0330 - EPA 3580

Matrix Spike Dup (B5F0330-MSD1)				Source: E5F0018-01		Prepared: 06/03/2025 Analyzed: 06/03/2025				
Fluorene	0.237	0.020	mg/kg	0.200	ND	118	70-130	0.735	20	
Indeno (1,2,3-cd) pyrene	0.230	0.020	"	0.200	ND	115	70-130	1.44	20	
Naphthalene	0.233	0.002	"	0.200	ND	116	70-130	1.13	20	
Phenanthrene	0.232	0.020	"	0.200	ND	116	70-130	0.0252	20	
Pyrene	0.242	0.020	"	0.200	ND	121	70-130	1.03	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

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Project Number: [none]

Project: State #9

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 B5F0303 - EPA 3550B										
Blank (B5F0303-BLK1)										
					Prepared: 06/03/2025 Analyzed: 06/03/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		73.2	50-150			
LCS (B5F0303-BS1)										
					Prepared: 06/03/2025 Analyzed: 06/03/2025					
Diesel (C10-C28)	921	50.0	mg/kg	1000		92.1	70-130			
Residual Range Organics (C28-C40)	982	200	"	1000		98.2	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.8	50-150			
Matrix Spike (B5F0303-MS1)										
			Source: E5F0018-01		Prepared: 06/03/2025 Analyzed: 06/03/2025					
Diesel (C10-C28)	960	50.0	mg/kg	1000	ND	96.0	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.0	50-150			
Matrix Spike Dup (B5F0303-MSD1)										
			Source: E5F0018-01		Prepared: 06/03/2025 Analyzed: 06/03/2025					
Diesel (C10-C28)	945	50.0	mg/kg	1000	ND	94.5	70-130	1.58	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	1.76	35	
Surrogate: o-Terphenyl	46		"	49.8		93.2	50-150			

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Project Number: [none]

Project: State #9

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 B5F0321 - EPA 3050B

Blank (B5F0321-BLK1)

Prepared: 06/03/2025 Analyzed: 06/05/2025

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

LCS (B5F0321-BS1)

Prepared: 06/03/2025 Analyzed: 06/05/2025

Arsenic	5.60	0.290	mg/kg	5.00	112	80-120
Barium	550	82.0	"	500	110	80-120
Cadmium	5.82	0.380	"	5.00	116	80-120
Copper	56.9	46.0	"	50.0	114	80-120
Lead	5.42	14.0	"	5.00	108	80-120
Nickel	5.66	26.0	"	5.00	113	80-120
Selenium	5.73	0.260	"	5.00	115	80-120
Silver	5.98	0.800	"	5.00	120	80-120
Zinc	53.3	370	"	50.0	107	80-120

Matrix Spike (B5F0321-MS1)

Source: E5E1059-01

Prepared: 06/03/2025 Analyzed: 06/05/2025

Arsenic	7.75	0.257	mg/kg	4.44	2.30	123	75-125
Barium	569	72.8	"	444	71.4	112	75-125
Cadmium	5.62	0.337	"	4.44	0.545	114	75-125
Copper	58.5	40.8	"	44.4	7.31	115	75-125
Lead	12.4	12.4	"	4.44	6.50	132	75-125

QM-07

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Project Number: [none]

Project: State #9

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 B5F0321 - EPA 3050B

Matrix Spike (B5F0321-MS1)

Source: E5E1059-01

Prepared: 06/03/2025 Analyzed: 06/05/2025

Nickel	11.8	23.1	mg/kg	4.44	6.08	129	75-125			QM-07
Selenium	5.14	0.231	"	4.44	0.258	110	75-125			
Silver	5.52	0.710	"	4.44	0.143	121	75-125			
Zinc	76.1	328	"	44.4	28.5	107	75-125			

Matrix Spike Dup (B5F0321-MSD1)

Source: E5E1059-01

Prepared: 06/03/2025 Analyzed: 06/05/2025

Arsenic	7.50	0.275	mg/kg	4.74	2.30	110	75-125	3.30	20	
Barium	576	77.7	"	474	71.4	106	75-125	1.13	20	
Cadmium	5.64	0.360	"	4.74	0.545	108	75-125	0.313	20	
Copper	58.8	43.6	"	47.4	7.31	109	75-125	0.522	20	
Lead	12.4	13.3	"	4.74	6.50	124	75-125	0.143	20	
Nickel	11.9	24.6	"	4.74	6.08	122	75-125	0.433	20	
Selenium	5.29	0.246	"	4.74	0.258	106	75-125	3.00	20	
Silver	5.63	0.758	"	4.74	0.143	116	75-125	1.91	20	
Zinc	75.7	351	"	47.4	28.5	99.5	75-125	0.598	20	

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Project Number: [none]

Project: State #9

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 B5F0418 - Saturated Paste pH/EC

Blank (B5F0418-BLK1)

Prepared: 06/04/2025 Analyzed: 06/06/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5F0418-DUP1)

Source: E5E1034-01

Prepared: 06/04/2025 Analyzed: 06/06/2025

Specific Conductance (EC)	0.924	0.00500	mmhos/cm	0.919	0.608	25
pH	8.13		pH Units	8.06	0.865	25

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Project Number: [none]

Project: State #9

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 B5F0332 - EPA 5030 (soil)

Blank (B5F0332-BLK1)

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

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
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4

0.11

"

0.125

90.4

70-130

Surrogate: Toluene-d8

0.12

"

0.125

99.9

70-130

Surrogate: 4-Bromofluorobenzene

0.14

"

0.125

110

70-130

LCS (B5F0332-BS1)

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

1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100		115	70-130
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130
Benzene	0.111	0.00200	"	0.100		111	70-130
Ethylbenzene	0.117	0.00200	"	0.100		117	70-130
Naphthalene	0.112	0.00380	"	0.100		112	70-130
Toluene	0.113	0.00200	"	0.100		113	70-130
o-Xylene	0.115	0.00200	"	0.100		115	70-130
m,p-Xylene	0.235	0.00400	"	0.200		117	70-130

Surrogate: 1,2-Dichloroethane-d4

0.11

"

0.125

88.5

70-130

Surrogate: Toluene-d8

0.12

"

0.125

99.1

70-130

Surrogate: 4-Bromofluorobenzene

0.13

"

0.125

103

70-130

Matrix Spike (B5F0332-MS1)

Source: E5F0018-01

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

1,2,4-Trimethylbenzene	0.0837	0.00200	mg/kg	0.100	ND	83.7	70-130
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Peter Kondrat

Project Number: [none]

Project: State #9

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 B5F0332 - EPA 5030 (soil)

Matrix Spike (B5F0332-MS1)		Source: E5F0018-01			Prepared: 06/03/2025 Analyzed: 06/03/2025					
1,3,5-Trimethylbenzene	0.0858	0.00200	mg/kg	0.100	ND	85.8	70-130			
Benzene	0.0916	0.00200	"	0.100	ND	91.6	70-130			
Ethylbenzene	0.0896	0.00200	"	0.100	0.000760	88.8	70-130			
Naphthalene	0.0952	0.00380	"	0.100	0.00290	92.3	70-130			
Toluene	0.0881	0.00200	"	0.100	ND	88.1	70-130			
o-Xylene	0.0911	0.00200	"	0.100	ND	91.1	70-130			
m,p-Xylene	0.178	0.00400	"	0.200	ND	89.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Matrix Spike Dup (B5F0332-MSD1)		Source: E5F0018-01			Prepared: 06/03/2025 Analyzed: 06/03/2025					
1,2,4-Trimethylbenzene	0.0968	0.00200	mg/kg	0.100	ND	96.8	70-130	14.5	20	
1,3,5-Trimethylbenzene	0.0956	0.00200	"	0.100	ND	95.6	70-130	10.9	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	10.1	20	
Ethylbenzene	0.0980	0.00200	"	0.100	0.000760	97.2	70-130	8.96	20	
Naphthalene	0.130	0.00380	"	0.100	0.00290	127	70-130	30.6	20	QR-02
Toluene	0.0966	0.00200	"	0.100	ND	96.6	70-130	9.16	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	9.75	20	
m,p-Xylene	0.196	0.00400	"	0.200	ND	98.0	70-130	9.46	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Project Number: [none]

Project: State #9

TOTAL METALS BY SW7199 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIF0933 - No Prep IC-WET										
Blank (BIF0933-BLK1)					Prepared: 06/18/2025 Analyzed: 06/20/2025					
Chromium, Hexavalent	ND	0.005	mg/kg							
LCS (BIF0933-BS1)					Prepared: 06/18/2025 Analyzed: 06/23/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		99.9	80-120			
LCS (BIF0933-BS2)					Prepared: 06/18/2025 Analyzed: 06/20/2025					
Chromium, Hexavalent	7.72	1.00	mg/kg	9.37		82.4	80-120			
Matrix Spike (BIF0933-MS1)					Source: 25F0954-08 Prepared: 06/18/2025 Analyzed: 06/20/2025					
Chromium, Hexavalent	1.96	0.20	mg/kg	1.96	ND	100	75-125			
Matrix Spike Dup (BIF0933-MSD1)					Source: 25F0954-08 Prepared: 06/18/2025 Analyzed: 06/20/2025					
Chromium, Hexavalent	2.02	0.20	mg/kg	2.03	ND	99.7	75-125	2.88	20	

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Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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