

# ORIGINS LABORATORY

CDH Consulting  
David Stainback  
9446 Clermont St  
Thornton CO 80229

July 21, 2025

**Project Name - Chevron -  
Lundvall-65N66W-18NESW**

**Project Number - 37191**

Attached are your analytical results for Chevron - Lundvall-65N66W-18NESW received by Origins Laboratory June 26, 2025. This project is associated with Origins project number E5F0580-01.

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



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 Thornton CO 80229

David Stainback  
 Project Number: 37191  
 Project: Chevron - Lundvall-65N66W-18NESW

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0-0.5'	E5F0580-01	Soil	June 26, 2025 10:20	06/26/2025 17:25
PWV01@4'	E5F0580-02	Soil	June 26, 2025 10:11	06/26/2025 17:25
PWV01-N@3'	E5F0580-03	Soil	June 26, 2025 10:13	06/26/2025 17:25
BKG01@0-0.5'	E5F0580-04	Soil	June 26, 2025 11:42	06/26/2025 17:25
BKG01@3.5'	E5F0580-05	Soil	June 26, 2025 11:44	06/26/2025 17:25
BKG02@0-0.5'	E5F0580-06	Soil	June 26, 2025 11:46	06/26/2025 17:25
BKG02@3.5'	E5F0580-07	Soil	June 26, 2025 11:48	06/26/2025 17:25
BKG03@0-0.5'	E5F0580-08	Soil	June 26, 2025 11:50	06/26/2025 17:25
BKG03@3.5'	E5F0580-09	Soil	June 26, 2025 11:52	06/26/2025 17:25
SEP01-DL	E5F0580-10	Soil	June 26, 2025 10:38	06/26/2025 17:25

Chain of Custody Modification Request

On 6/30/2025, Lauren King from CDH contacted Jordan Bynon via email regarding E5F0580 requesting that the project name be revised to Lundvall-65N66W-18NESW. Requested modifications to the chain of custody were made by Jordan Bynon on 6/30/2025.

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ORIGINS LABORATORY  
 Client: CDH Consulting  
 Address: 9446 Clermont St  
 Thornton CO  
 Telephone Number: (970) 403-4108  
 Email Address: carol@cdhconsult.com

Project Manager: David Stainback  
 Project Name: Lundvall-65N66W  
 Project Number: 37191  
 Collected By: Simon Kretzer Gassho  
 Invoice/Billing info: Karen Olson

Key:  
 W=Water  
 GW=Groundwater  
 SW=Surface Water  
 WW=Waste Water  
 L=Liquid

5=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UWP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

ESF0580

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis					Comments	
							PH	EC	SAR	Baron			
1	AST0100-05	6/24/25	1020	3	S	None	X						
2	PW0101		1011	3			X						
3	PW01-1031		1013	3			X	X	X	X			
4	BK0100-05		1142	2			X	X	X	X			
5	BK0103.5		1144	2			X	X	X	X			
6	BK0200-05		1146	2			X	X	X	X			
7	BK0203.5		1148	2			X	X	X	X			
8	BK0300-05		1150	2			X	X	X	X			
9	BK0303.5		1152	2			X	X	X	X			
10	Sep01-DL		1038	3			X						

Relinquished By: Simon Kretzer Gassho Date: 6/26/25 Time: 1600

Relinquished By: JDA Date: 6/26/25 Time: 1725

Received By: JDA Date: 6/26/25 Time: 1600

Received By: NKM Date: 6/26/25 Time: 1725

Turnaround Time:  SAME DAY  24 Hr  48 Hr  72  Standard

Temp Received: 2.8 Received On Ice?  Yes  No

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Project: Chevron - Lundvall-65N66W-18NESW

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

### Sample Receipt Checklist

Origins Work Order: ESF0580 Client: CDH  
 Client Project ID: Lundvall  
 Checklist Completed by: SML/NKM Shipped Via: HD  
 Date/time completed: 6/26/25 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		*
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):	<input checked="" type="checkbox"/> only 2 containers received for ESF0580-01, -02, + -03 and -04 -10, NKM			

<sup>(1)</sup>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) NKM Date/Time Reviewed 06/26/25

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*EHO*

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AST01@0-0.5'  
 6/26/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-01 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>TOTAL METALS BY SW7199</b>									
Chromium, Hexavalent	ND	0.08	0.19	mg/kg	1	BIG0511	07/10/2025	07/16/2025	
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.286		0.100	mg/L	1	B5F2652	06/26/2025	06/30/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	28.5		25.0	mg/kg	1	B5F2645	06/26/2025	06/26/2025	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	99.1 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	0.00268		0.00200	mg/kg	1	B5F2648	06/26/2025	06/27/2025	
1,3,5-Trimethylbenzene	0.00228		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00592		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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**AST01@0-0.5'**  
**6/26/2025 10:20:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-01 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	95.6 %			70-130		B5F2648	06/26/2025	06/27/2025	
Surrogate: Toluene-d8	91.5 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.07		0.499	meq/L	10	[CALC]	06/26/2025	06/30/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5F2647	06/26/2025	06/26/2025	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
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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**AST01@0-0.5'**  
**6/26/2025 10:20:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-01 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Fluoranthene	ND		0.020	mg/kg	1	B5F2647	06/26/2025	06/26/2025	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	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.5 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.31			pH Units	1	B5F2651	06/26/2025	06/28/2025	
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**SAR by 20B Saturated Paste**

SAR	0.0667		0.0100	SAR	1	B5F2649	06/26/2025	06/30/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.173		0.00500	mmhos/cm	1	B5F2651	06/26/2025	06/28/2025	
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**Table 915 metals by EPA 6020B**

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**AST01@0-0.5'**  
**6/26/2025 10:20:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.07		0.288	mg/kg	10	B5F2653	06/26/2025	06/27/2025	
Barium	ND		81.3	"	"	"	"	"	
Cadmium	ND		0.377	"	"	"	"	"	
Copper	ND		45.6	"	"	"	"	"	
Lead	24.3		13.9	"	"	"	"	"	
Nickel	ND		25.8	"	"	"	"	"	
Selenium	ND		0.258	"	"	"	"	"	
Silver	ND		0.793	"	"	"	"	"	
Zinc	ND		367	"	"	"	"	"	

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PWV01@4'

6/26/2025 10:11:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-02 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>TOTAL METALS BY SW7199</b>									
Chromium, Hexavalent	0.12	0.08	0.20	mg/kg	1	BIG0511	07/10/2025	07/17/2025	J
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.252		0.0999	mg/L	1	B5F2652	06/26/2025	06/30/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	373		25.0	mg/kg	1	B5F2645	06/26/2025	06/26/2025	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	109 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	9.43		0.500	mg/kg	250	B5F2648	06/26/2025	06/27/2025	
1,3,5-Trimethylbenzene	6.07		0.500	"	"	"	"	"	
Benzene	ND		0.0500	"	25	"	"	06/27/2025	R-05, U
Ethylbenzene	ND		0.0500	"	"	"	"	"	R-05, U
Toluene	ND		0.0500	"	"	"	"	"	R-05, U
Xylenes, total	10.3		0.0500	"	"	"	"	"	
Gasoline Range Hydrocarbons	254		50.0	"	250	"	"	06/27/2025	

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PWV01@4'

6/26/2025 10:11:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-02 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	88.1 %			70-130		B5F2648	06/26/2025	06/27/2025	
Surrogate: Toluene-d8	98.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.02		0.499	meq/L	10	[CALC]	06/26/2025	06/30/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	4.20		0.020	mg/kg	10	B5F2647	06/26/2025	06/26/2025	
2-Methylnaphthalene	12.9		0.200	"	100	"	"	06/27/2025	
Acenaphthene	ND		0.200	"	10	"	"	06/26/2025	R-05, U
Anthracene	ND		0.200	"	"	"	"	"	R-05, U
Benzo (a) anthracene	ND		0.050	"	"	"	"	"	R-05, U
Benzo (a) pyrene	ND		0.200	"	"	"	"	"	R-05, U
Benzo (b) fluoranthene	ND		0.200	"	"	"	"	"	R-05, U
Benzo (k) fluoranthene	ND		0.200	"	"	"	"	"	R-05, U
Chrysene	ND		0.200	"	"	"	"	"	R-05, U
Dibenz (a,h) anthracene	ND		0.200	"	"	"	"	"	R-05, U

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PWV01@4'

6/26/2025 10:11:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-02 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Fluoranthene	ND		0.200	mg/kg	10	B5F2647	06/26/2025	06/26/2025	R-05, U
Fluorene	0.699		0.200	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.200	"	"	"	"	"	R-05, U
Naphthalene	2.85		0.020	"	"	"	"	"	
Pyrene	ND		0.200	"	"	"	"	"	R-05, U

Surrogate: Fluorene-d10	99.7 %				60-130	"	"	"	
Surrogate: Anthracene-d10	98.3 %				60-130	"	"	"	
Surrogate: Pyrene-d10	99.6 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.2 %				60-130	"	"	"	

**pH in Soil by 9045D**

pH	8.28			pH Units	1	B5F2651	06/26/2025	06/28/2025	
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**SAR by 20B Saturated Paste**

SAR	0.134		0.0100	SAR	1	B5F2649	06/26/2025	06/30/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.326		0.00500	mmhos/cm	1	B5F2651	06/26/2025	06/28/2025	
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**Table 915 metals by EPA 6020B**

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PWV01@4'

6/26/2025 10:11:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-02 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	3.85		0.254	mg/kg	10	B5F2653	06/26/2025	06/27/2025	
Barium	80.5		71.9	"	"	"	"	"	
Cadmium	ND		0.333	"	"	"	"	"	
Copper	ND		40.3	"	"	"	"	"	
Lead	ND		12.3	"	"	"	"	"	
Nickel	ND		22.8	"	"	"	"	"	
Selenium	ND		0.228	"	"	"	"	"	
Silver	ND		0.702	"	"	"	"	"	
Zinc	ND		324	"	"	"	"	"	

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PWV01-N@3'

6/26/2025 10:13:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-03 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>TOTAL METALS BY SW7199</b>									
Chromium, Hexavalent	ND	0.08	0.20	mg/kg	1	BIG0511	07/10/2025	07/17/2025	
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.320		0.0997	mg/L	1	B5F2652	06/26/2025	06/30/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5F2645	06/26/2025	06/26/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	107 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5F2648	06/26/2025	06/27/2025	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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PWV01-N@3'  
 6/26/2025 10:13:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-03 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	2.26		0.200	mg/kg	1	B5F2648	06/26/2025	06/27/2025	
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Surrogate: 1,2-Dichloroethane-d4	93.5 %			70-130		"	"	"	
Surrogate: Toluene-d8	116 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.59		0.499	meq/L	10	[CALC]	06/26/2025	06/30/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	0.015		0.002	mg/kg	1	B5F2647	06/26/2025	06/26/2025	
2-Methylnaphthalene	0.039		0.002	"	"	"	"	"	
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
Chrysene	ND		0.020	"	"	"	"	"	U

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**PWV01-N@3'**  
**6/26/2025 10:13:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-03 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5F2647	06/26/2025	06/26/2025	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	0.008		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.1 %			60-130		"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.34			pH Units	1	B5F2651	06/26/2025	06/28/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.185		0.0100	SAR	1	B5F2649	06/26/2025	06/30/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.267		0.00500	mmhos/cm	1	B5F2651	06/26/2025	06/28/2025	

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**PWV01-N@3'**  
**6/26/2025 10:13:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-03 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	3.39		0.243	mg/kg	10	B5F2653	06/26/2025	06/27/2025	
Barium	72.0		68.8	"	"	"	"	"	
Cadmium	ND		0.319	"	"	"	"	"	
Copper	ND		38.6	"	"	"	"	"	
Lead	ND		11.8	"	"	"	"	"	
Nickel	ND		21.8	"	"	"	"	"	
Selenium	ND		0.218	"	"	"	"	"	
Silver	ND		0.672	"	"	"	"	"	
Zinc	ND		311	"	"	"	"	"	

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**BKG01@0-0.5'**  
**6/26/2025 11:42:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-04 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>TOTAL METALS BY SW7199</b>									
Chromium, Hexavalent	0.25	0.08	0.20	mg/kg	1	BIG0511	07/10/2025	07/17/2025	
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.758		0.0999	mg/L	1	B5F2652	06/26/2025	06/30/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	4.01		0.499	meq/L	10	[CALC]	06/26/2025	06/30/2025	
Magnesium	1.16		0.823	"	"	"	"	"	
Sodium	1.15		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.04			pH Units	1	B5F2651	06/26/2025	06/28/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.717		0.0100	SAR	1	B5F2649	06/26/2025	06/30/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.851		0.00500	mmhos/cm	1	B5F2651	06/26/2025	06/28/2025	

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**BKG01@0-0.5'**  
**6/26/2025 11:42:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-04 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	4.36		0.286	mg/kg	10	B5F2653	06/26/2025	06/27/2025	
Barium	95.2		80.9	"	"	"	"	"	
Cadmium	ND		0.375	"	"	"	"	"	
Copper	ND		45.4	"	"	"	"	"	
Lead	ND		13.8	"	"	"	"	"	
Nickel	ND		25.7	"	"	"	"	"	
Selenium	0.319		0.257	"	"	"	"	"	
Silver	ND		0.789	"	"	"	"	"	
Zinc	ND		365	"	"	"	"	"	

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**BKG01@3.5'**

**6/26/2025 11:44:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-05 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>TOTAL METALS BY SW7199</b>									
Chromium, Hexavalent	ND	0.08	0.20	mg/kg	1	BIG0511	07/10/2025	07/17/2025	
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	1.38		0.0999	mg/L	1	B5F2652	06/26/2025	06/30/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	4.99		0.499	meq/L	10	[CALC]	06/26/2025	06/30/2025	
Magnesium	5.21		0.823	"	"	"	"	"	
Sodium	7.17		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.32			pH Units	1	B5F2651	06/26/2025	06/28/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	3.17		0.0100	SAR	1	B5F2649	06/26/2025	06/30/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.72		0.00500	mmhos/cm	1	B5F2651	06/26/2025	06/28/2025	

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**BKG01@3.5'**

**6/26/2025 11:44:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-05 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	4.00		0.263	mg/kg	10	B5F2653	06/26/2025	06/27/2025	
Barium	100		74.4	"	"	"	"	"	
Cadmium	ND		0.345	"	"	"	"	"	
Copper	ND		41.7	"	"	"	"	"	
Lead	ND		12.7	"	"	"	"	"	
Nickel	ND		23.6	"	"	"	"	"	
Selenium	0.277		0.236	"	"	"	"	"	
Silver	ND		0.726	"	"	"	"	"	
Zinc	ND		336	"	"	"	"	"	

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**BKG02@0-0.5'**  
**6/26/2025 11:46:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-06 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>TOTAL METALS BY SW7199</b>									
Chromium, Hexavalent	0.11	0.08	0.20	mg/kg	1	BIG0511	07/10/2025	07/17/2025	J
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.776		0.0998	mg/L	1	B5F2652	06/26/2025	06/30/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	6.50		0.499	meq/L	10	[CALC]	06/26/2025	06/30/2025	
Magnesium	2.68		0.823	"	"	"	"	"	
Sodium	1.73		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.29			pH Units	1	B5F2651	06/26/2025	06/28/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.808		0.0100	SAR	1	B5F2649	06/26/2025	06/30/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.75		0.00500	mmhos/cm	1	B5F2651	06/26/2025	06/28/2025	

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**BKG02@0-0.5'**  
**6/26/2025 11:46:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-06 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	4.31		0.278	mg/kg	10	B5F2653	06/26/2025	06/27/2025	
Barium	96.0		78.5	"	"	"	"	"	
Cadmium	ND		0.364	"	"	"	"	"	
Copper	ND		44.0	"	"	"	"	"	
Lead	ND		13.4	"	"	"	"	"	
Nickel	ND		24.9	"	"	"	"	"	
Selenium	0.398		0.249	"	"	"	"	"	
Silver	ND		0.766	"	"	"	"	"	
Zinc	ND		354	"	"	"	"	"	

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**BKG02@3.5'**

**6/26/2025 11:48:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-07 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>TOTAL METALS BY SW7199</b>									
Chromium, Hexavalent	0.18	0.08	0.19	mg/kg	1	BIG0586	07/11/2025	07/17/2025	J
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.944		0.0997	mg/L	1	B5F2652	06/26/2025	06/30/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	22.3		0.499	meq/L	10	[CALC]	06/26/2025	06/30/2025	
Magnesium	14.2		0.823	"	"	"	"	"	
Sodium	9.73		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.19			pH Units	1	B5F2651	06/26/2025	06/28/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	2.28		0.0100	SAR	1	B5F2649	06/26/2025	06/30/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	3.60		0.00500	mmhos/cm	1	B5F2651	06/26/2025	06/28/2025	

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**BKG02@3.5'**

**6/26/2025 11:48:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-07 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	5.06		0.250	mg/kg	10	B5F2653	06/26/2025	06/27/2025	
Barium	75.6		70.8	"	"	"	"	"	
Cadmium	ND		0.328	"	"	"	"	"	
Copper	ND		39.7	"	"	"	"	"	
Lead	ND		12.1	"	"	"	"	"	
Nickel	ND		22.5	"	"	"	"	"	
Selenium	0.367		0.225	"	"	"	"	"	
Silver	ND		0.691	"	"	"	"	"	
Zinc	ND		320	"	"	"	"	"	

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**BKG03@0-0.5'**

**6/26/2025 11:50:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-08 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>TOTAL METALS BY SW7199</b>									
Chromium, Hexavalent	ND	0.08	0.21	mg/kg	1	BIG0586	07/11/2025	07/17/2025	
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.683		0.0996	mg/L	1	B5F2652	06/26/2025	06/30/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	4.67		0.499	meq/L	10	[CALC]	06/26/2025	06/30/2025	
Magnesium	2.09		0.823	"	"	"	"	"	
Sodium	1.30		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	7.90			pH Units	1	B5F2651	06/26/2025	06/28/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.706		0.0100	SAR	1	B5F2649	06/26/2025	06/30/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.20		0.00500	mmhos/cm	1	B5F2651	06/26/2025	06/28/2025	

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**BKG03@0-0.5'**  
**6/26/2025 11:50:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-08 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	6.81		0.263	mg/kg	10	B5F2653	06/26/2025	06/27/2025	
Barium	219		74.3	"	"	"	"	"	
Cadmium	0.406		0.344	"	"	"	"	"	
Copper	ND		41.7	"	"	"	"	"	
Lead	15.7		12.7	"	"	"	"	"	
Nickel	ND		23.6	"	"	"	"	"	
Selenium	0.562		0.236	"	"	"	"	"	
Silver	ND		0.725	"	"	"	"	"	
Zinc	ND		335	"	"	"	"	"	

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**BKG03@3.5'**

**6/26/2025 11:52:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-09 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>TOTAL METALS BY SW7199</b>									
Chromium, Hexavalent	ND	0.08	0.21	mg/kg	1	BIG0586	07/11/2025	07/17/2025	
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	1.16		0.100	mg/L	1	B5F2652	06/26/2025	06/30/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	2.41		0.499	meq/L	10	[CALC]	06/26/2025	06/30/2025	
Magnesium	3.23		0.823	"	"	"	"	"	
Sodium	5.65		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.41			pH Units	1	B5F2651	06/26/2025	06/28/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	3.36		0.0100	SAR	1	B5F2649	06/26/2025	06/30/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.19		0.00500	mmhos/cm	1	B5F2651	06/26/2025	06/28/2025	

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**BKG03@3.5'**

**6/26/2025 11:52:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-09 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	5.75		0.258	mg/kg	10	B5F2653	06/26/2025	06/27/2025	
Barium	127		72.9	"	"	"	"	"	
Cadmium	ND		0.338	"	"	"	"	"	
Copper	ND		40.9	"	"	"	"	"	
Lead	ND		12.4	"	"	"	"	"	
Nickel	ND		23.1	"	"	"	"	"	
Selenium	0.451		0.231	"	"	"	"	"	
Silver	ND		0.711	"	"	"	"	"	
Zinc	ND		329	"	"	"	"	"	

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**SEP01-DL**

**6/26/2025 10:38:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-10 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>TOTAL METALS BY SW7199</b>									
Chromium, Hexavalent	ND	0.08	0.19	mg/kg	1	BIG0586	07/11/2025	07/17/2025	
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.458		0.0998	mg/L	1	B5F2652	06/26/2025	06/30/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5F2645	06/26/2025	06/26/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	105 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5F2648	06/26/2025	06/27/2025	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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SEP01-DL  
 6/26/2025 10:38:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5F0580-10 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5F2648	06/26/2025	06/27/2025	U
Surrogate: 1,2-Dichloroethane-d4	94.5 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.14		0.499	meq/L	10	[CALC]	06/26/2025	06/30/2025	
Magnesium	0.832		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5F2647	06/26/2025	06/26/2025	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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SEP01-DL  
 6/26/2025 10:38:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-10 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Chrysene	ND		0.020	mg/kg	1	B5F2647	06/26/2025	06/26/2025	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	99.0 %					"	"	"	
Surrogate: Anthracene-d10	95.7 %					"	"	"	
Surrogate: Pyrene-d10	101 %					"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.9 %					"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.42			pH Units	1	B5F2651	06/26/2025	06/28/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.122		0.0100	SAR	1	B5F2649	06/26/2025	06/30/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.244		0.00500	mmhos/cm	1	B5F2651	06/26/2025	06/28/2025	

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SEP01-DL  
 6/26/2025 10:38:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5F0580-10 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.93		0.247	mg/kg	10	B5F2653	06/26/2025	06/27/2025	
Barium	90.0		69.9	"	"	"	"	"	
Cadmium	ND		0.324	"	"	"	"	"	
Copper	ND		39.2	"	"	"	"	"	
Lead	ND		11.9	"	"	"	"	"	
Nickel	ND		22.2	"	"	"	"	"	
Selenium	ND		0.222	"	"	"	"	"	
Silver	ND		0.682	"	"	"	"	"	
Zinc	ND		315	"	"	"	"	"	

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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5F2649 - Saturated Paste Metals**

**Blank (B5F2649-BLK1)**

Prepared: 06/26/2025 Analyzed: 06/30/2025

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

**Duplicate (B5F2649-DUP1)**

Source: E5F0575-01

Prepared: 06/26/2025 Analyzed: 06/30/2025

SAR	ND	0.0100	SAR	0.482				200		
Calcium PPM	564	10.0	mg/L	554				1.84	50	
Magnesium PPM	214	10.0	"	211				1.28	50	
Sodium PPM	45.4	10.0	"	52.6				14.6	50	

**Batch B5F2652 - DTPA Sorbitol Preparation**

**Blank (B5F2652-BLK1)**

Prepared: 06/26/2025 Analyzed: 06/30/2025

Boron	ND	0.100	mg/L							
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**Duplicate (B5F2652-DUP1)**

Source: E5F0580-01

Prepared: 06/26/2025 Analyzed: 06/30/2025

Boron	0.303	0.0996	mg/L	0.286				5.76	50	
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**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 B5F2647 - EPA 3580**

**Blank (B5F2647-BLK1)**

Prepared: 06/26/2025 Analyzed: 06/26/2025

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	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	180		"	200		91.9	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.2	60-130			

**LCS (B5F2647-BS1)**

Prepared: 06/26/2025 Analyzed: 06/26/2025

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200		107	70-130			
2-Methylnaphthalene	0.213	0.002	"	0.200		107	70-130			
Acenaphthene	0.209	0.020	"	0.200		104	70-130			
Anthracene	0.188	0.020	"	0.200		93.9	70-130			

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**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 B5F2647 - EPA 3580**

**LCS (B5F2647-BS1)**

Prepared: 06/26/2025 Analyzed: 06/26/2025

Benzo (a) anthracene	0.196	0.005	mg/kg	0.200		98.2	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.5	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200		100	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200		101	70-130			
Benzo (k) fluoranthene	0.179	0.020	"	0.200		89.3	70-130			
Chrysene	0.186	0.020	"	0.200		93.2	70-130			
Dibenz (a,h) anthracene	0.184	0.020	"	0.200		91.9	70-130			
Fluoranthene	0.206	0.020	"	0.200		103	70-130			
Fluorene	0.201	0.020	"	0.200		100	70-130			
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200		98.0	70-130			
Naphthalene	0.211	0.002	"	0.200		105	70-130			
Phenanthrene	0.199	0.020	"	0.200		99.7	70-130			
Pyrene	0.203	0.020	"	0.200		102	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		96.6	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

**Matrix Spike (B5F2647-MS1)**

Source: E5F0574-04

Prepared: 06/26/2025 Analyzed: 06/26/2025

1-Methylnaphthalene	0.219	0.002	mg/kg	0.200	ND	109	70-130			
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	108	70-130			
Acenaphthene	0.215	0.020	"	0.200	0.002	106	70-130			
Anthracene	0.182	0.020	"	0.200	0.002	89.7	70-130			
Benzo (a) anthracene	0.198	0.005	"	0.200	0.005	96.6	70-130			
Benzo (a) pyrene	0.202	0.020	"	0.200	0.007	97.6	70-130			
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.006	102	70-130			
Benzo (g,h,i) perylene	0.205	0.020	"	0.200	0.010	97.8	70-130			

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**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 B5F2647 - EPA 3580**

<b>Matrix Spike (B5F2647-MS1)</b>		<b>Source: E5F0574-04</b>			<b>Prepared: 06/26/2025 Analyzed: 06/26/2025</b>					
Benzo (k) fluoranthene	0.189	0.020	mg/kg	0.200	0.006	91.6	70-130			
Chrysene	0.194	0.020	"	0.200	0.006	94.1	70-130			
Dibenz (a,h) anthracene	0.186	0.020	"	0.200	0.013	86.2	70-130			
Fluoranthene	0.216	0.020	"	0.200	0.004	106	70-130			
Fluorene	0.206	0.020	"	0.200	0.001	103	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200	0.011	95.3	70-130			
Naphthalene	0.213	0.002	"	0.200	ND	107	70-130			
Phenanthrene	0.204	0.020	"	0.200	0.003	101	70-130			
Pyrene	0.212	0.020	"	0.200	0.003	104	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		95.3	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.4	60-130			

<b>Matrix Spike Dup (B5F2647-MSD1)</b>		<b>Source: E5F0574-04</b>			<b>Prepared: 06/26/2025 Analyzed: 06/26/2025</b>					
1-Methylnaphthalene	0.219	0.002	mg/kg	0.200	ND	109	70-130	0.161	20	
2-Methylnaphthalene	0.219	0.002	"	0.200	ND	110	70-130	1.19	20	
Acenaphthene	0.213	0.020	"	0.200	0.002	106	70-130	0.833	20	
Anthracene	0.202	0.020	"	0.200	0.002	99.9	70-130	10.6	20	
Benzo (a) anthracene	0.204	0.005	"	0.200	0.005	99.8	70-130	3.18	20	
Benzo (a) pyrene	0.207	0.020	"	0.200	0.007	100	70-130	2.49	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	0.006	107	70-130	4.36	20	
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	0.010	98.9	70-130	1.01	20	
Benzo (k) fluoranthene	0.190	0.020	"	0.200	0.006	92.0	70-130	0.474	20	
Chrysene	0.193	0.020	"	0.200	0.006	93.5	70-130	0.615	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	0.013	89.7	70-130	3.68	20	
Fluoranthene	0.219	0.020	"	0.200	0.004	108	70-130	1.48	20	

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**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 B5F2647 - EPA 3580**

**Matrix Spike Dup (B5F2647-MSD1)**

**Source: E5F0574-04**

Prepared: 06/26/2025 Analyzed: 06/26/2025

Fluorene	0.211	0.020	mg/kg	0.200	0.001	105	70-130	2.17	20	
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	0.011	97.7	70-130	2.37	20	
Naphthalene	0.216	0.002	"	0.200	ND	108	70-130	1.23	20	
Phenanthrene	0.204	0.020	"	0.200	0.003	101	70-130	0.162	20	
Pyrene	0.214	0.020	"	0.200	0.003	105	70-130	0.967	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	180		"	200		90.6	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130			

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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 B5F2645 - EPA 3550B**

**Blank (B5F2645-BLK1)**

Prepared: 06/26/2025 Analyzed: 06/26/2025

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	30		"	24.9		120	50-150			

**LCS (B5F2645-BS1)**

Prepared: 06/26/2025 Analyzed: 06/26/2025

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

**Matrix Spike (B5F2645-MS1)**

**Source: E5F0574-04**

Prepared: 06/26/2025 Analyzed: 06/26/2025

Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

**Matrix Spike Dup (B5F2645-MSD1)**

**Source: E5F0574-04**

Prepared: 06/26/2025 Analyzed: 06/26/2025

Diesel (C10-C28)	945	50.0	mg/kg	1000	ND	94.5	70-130	12.4	35	
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	70-130	12.1	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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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 B5F2653 - EPA 3050B**

Prepared: 06/26/2025 Analyzed: 06/27/2025

**Blank (B5F2653-BLK1)**

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	"

Prepared: 06/26/2025 Analyzed: 06/27/2025

**LCS (B5F2653-BS1)**

Arsenic	5.61	0.290	mg/kg	5.00	112	80-120
Barium	512	82.0	"	500	102	80-120
Cadmium	5.84	0.380	"	5.00	117	80-120
Copper	56.4	46.0	"	50.0	113	80-120
Lead	5.28	14.0	"	5.00	106	80-120
Nickel	5.93	26.0	"	5.00	119	80-120
Selenium	5.67	0.260	"	5.00	113	80-120
Silver	5.77	0.800	"	5.00	115	80-120
Zinc	57.9	370	"	50.0	116	80-120

Prepared: 06/26/2025 Analyzed: 06/27/2025

**Matrix Spike (B5F2653-MS1)**

Source: E5F0568-01

Arsenic	7.50	0.283	mg/kg	4.88	1.75	118	75-125
Barium	562	80.0	"	488	25.6	110	75-125
Cadmium	5.97	0.371	"	4.88	0.0489	121	75-125
Copper	57.6	44.9	"	48.8	2.77	112	75-125
Lead	8.91	13.7	"	4.88	3.09	119	75-125

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5F2653 - EPA 3050B**

<b>Matrix Spike (B5F2653-MS1)</b>		<b>Source: E5F0568-01</b>		<b>Prepared: 06/26/2025 Analyzed: 06/27/2025</b>						
Nickel	10.7	25.4	mg/kg	4.88	4.27	132	75-125			QM-07
Selenium	5.60	0.254	"	4.88	0.0763	113	75-125			
Silver	5.84	0.780	"	4.88	0.00514	120	75-125			
Zinc	72.2	361	"	48.8	15.5	116	75-125			

<b>Matrix Spike Dup (B5F2653-MSD1)</b>		<b>Source: E5F0568-01</b>		<b>Prepared: 06/26/2025 Analyzed: 06/27/2025</b>						
Arsenic	7.54	0.286	mg/kg	4.94	1.75	117	75-125	0.525	20	
Barium	591	80.9	"	494	25.6	115	75-125	5.05	20	
Cadmium	5.89	0.375	"	4.94	0.0489	118	75-125	1.34	20	
Copper	58.5	45.4	"	49.4	2.77	113	75-125	1.56	20	
Lead	8.84	13.8	"	4.94	3.09	116	75-125	0.846	20	
Nickel	10.7	25.7	"	4.94	4.27	131	75-125	0.272	20	QM-07
Selenium	5.59	0.257	"	4.94	0.0763	112	75-125	0.172	20	
Silver	5.76	0.790	"	4.94	0.00514	116	75-125	1.45	20	
Zinc	72.4	365	"	49.4	15.5	115	75-125	0.339	20	

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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 B5F2651 - Saturated Paste pH/EC**

**Blank (B5F2651-BLK1)**

Prepared: 06/26/2025 Analyzed: 06/28/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B5F2651-DUP1)**

**Source: E5F0575-01**

Prepared: 06/26/2025 Analyzed: 06/28/2025

pH 7.93 pH Units 7.95 0.252 25

Specific Conductance (EC) 3.33 0.00500 mmhos/cm 3.42 2.63 25

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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 B5F2648 - EPA 5030 (soil)**

**Blank (B5F2648-BLK1)**

Prepared: 06/26/2025 Analyzed: 06/26/2025

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

91.7

70-130

Surrogate: Toluene-d8

0.12

"

0.125

95.9

70-130

Surrogate: 4-Bromofluorobenzene

0.13

"

0.125

106

70-130

**LCS (B5F2648-BS1)**

Prepared: 06/26/2025 Analyzed: 06/26/2025

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.0986	0.00200	"	0.100		98.6	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			

Surrogate: 1,2-Dichloroethane-d4

0.11

"

0.125

90.0

70-130

Surrogate: Toluene-d8

0.12

"

0.125

95.1

70-130

Surrogate: 4-Bromofluorobenzene

0.13

"

0.125

101

70-130

**Matrix Spike (B5F2648-MS1)**

**Source: E5F0574-04**

Prepared: 06/26/2025 Analyzed: 06/26/2025

1,2,4-Trimethylbenzene	0.0973	0.00200	mg/kg	0.100	ND	97.3	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 B5F2648 - EPA 5030 (soil)**

<b>Matrix Spike (B5F2648-MS1)</b>		<b>Source: E5F0574-04</b>			<b>Prepared: 06/26/2025 Analyzed: 06/26/2025</b>					
1,3,5-Trimethylbenzene	0.0959	0.00200	mg/kg	0.100	ND	95.9	70-130			
Benzene	0.0951	0.00200	"	0.100	ND	95.1	70-130			
Ethylbenzene	0.0944	0.00200	"	0.100	ND	94.4	70-130			
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130			
Toluene	0.0947	0.00200	"	0.100	ND	94.7	70-130			
o-Xylene	0.0899	0.00200	"	0.100	ND	89.9	70-130			
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.5	70-130			

<b>Matrix Spike Dup (B5F2648-MSD1)</b>		<b>Source: E5F0574-04</b>			<b>Prepared: 06/26/2025 Analyzed: 06/26/2025</b>					
1,2,4-Trimethylbenzene	0.0982	0.00200	mg/kg	0.100	ND	98.2	70-130	0.921	20	
1,3,5-Trimethylbenzene	0.0983	0.00200	"	0.100	ND	98.3	70-130	2.43	20	
Benzene	0.0996	0.00200	"	0.100	ND	99.6	70-130	4.56	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	12.0	20	
Naphthalene	0.117	0.00380	"	0.100	ND	117	70-130	4.52	20	
Toluene	0.0976	0.00200	"	0.100	ND	97.6	70-130	3.08	20	
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130	19.0	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	12.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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**TOTAL METALS BY SW7199 - Quality Control**  
**Enthalpy Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch BIG0586 - No Prep IC-WET</b>										
<b>Blank (BIG0586-BLK1)</b>										
					Prepared: 07/11/2025 Analyzed: 07/17/2025					
Chromium, Hexavalent	ND	0.005	mg/kg				-			
<b>LCS (BIG0586-BS1)</b>										
					Prepared: 07/11/2025 Analyzed: 07/17/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		99.0	80-120			
<b>LCS (BIG0586-BS2)</b>										
					Prepared: 07/11/2025 Analyzed: 07/17/2025					
Chromium, Hexavalent	7.09	1.00	mg/kg	8.73		81.2	80-120			
<b>Matrix Spike (BIG0586-MS1)</b>										
		<b>Source: 25G0126-05</b>			Prepared: 07/11/2025 Analyzed: 07/17/2025					
Chromium, Hexavalent	1.07	0.20	mg/kg	2.02	ND	52.8	75-125			M
<b>Matrix Spike Dup (BIG0586-MSD1)</b>										
		<b>Source: 25G0126-05</b>			Prepared: 07/11/2025 Analyzed: 07/17/2025					
Chromium, Hexavalent	0.43	0.20	mg/kg	1.98	ND	21.8	75-125	85.2	20	M

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**TOTAL METALS BY SW7199 - Quality Control**  
**Enthalpy Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch BIG0511 - No Prep IC-WET</b>										
<b>Blank (BIG0511-BLK1)</b>										
					Prepared: 07/10/2025 Analyzed: 07/16/2025					
Chromium, Hexavalent	ND	0.005	mg/kg				-			
<b>LCS (BIG0511-BS1)</b>										
					Prepared: 07/10/2025 Analyzed: 07/16/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		96.5	80-120			
<b>LCS (BIG0511-BS2)</b>										
					Prepared: 07/10/2025 Analyzed: 07/16/2025					
Chromium, Hexavalent	8.27	1.00	mg/kg	8.56		96.7	80-120			
<b>Matrix Spike (BIG0511-MS1)</b>										
		<b>Source: 25G0157-07</b>			Prepared: 07/10/2025 Analyzed: 07/16/2025					
Chromium, Hexavalent	1.79	0.20	mg/kg	1.99	ND	89.7	75-125			
<b>Matrix Spike Dup (BIG0511-MSD1)</b>										
		<b>Source: 25G0157-07</b>			Prepared: 07/10/2025 Analyzed: 07/16/2025					
Chromium, Hexavalent	1.80	0.20	mg/kg	2.02	ND	89.2	75-125	0.696	20	

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### Notes and Definitions

- U Sample is Non-Detect.
  - R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
  - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
  - M Matrix spike recovery is outside established acceptance limits
  - J The reported result is an estimated value.
  - 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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