



Ensolum

September 29, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Smits Fed, Schmidt P2 Fac

Project Number - 09A14171239

Attached are your analytical results for KMG - Smits Fed, Schmidt P2 Fac received by Origins Laboratory September 10, 2025. This project is associated with Origins project number E5I0259-01.

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.

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



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

Jeremy Espinoza
Project Number: 09A14171239
Project: KMG - Smits Fed, Schmidt P2 Fac

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV-B01@5'	E510259-01	Soil	September 10, 2025 9:58	09/10/2025 16:36
PWV-N01@2.5'	E510259-02	Soil	September 10, 2025 10:05	09/10/2025 16:36
AST01@0.5'	E510259-03	Soil	September 10, 2025 10:15	09/10/2025 16:36
TB-BG01@0.5'	E510259-04	Soil	September 10, 2025 10:25	09/10/2025 16:36
SEP01-Outlet@3'	E510259-05	Soil	September 10, 2025 10:45	09/10/2025 16:36
SEP01-Inlet@3'	E510259-06	Soil	September 10, 2025 10:50	09/10/2025 16:36

Origins Laboratory

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

Client: ARMCO
 Address: _____

Project Manager: Sereny Espinoza
 Project Name: San Joaquin Schmidt Pl Facility

Key: W=Water

Telephone Number: (970) 590-2134

Project Number: 09A14171259

GW=Groundwater

Email Address: EMG@armco.com

Invoice/Billing Info: Final

SW=Surface Water

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	
						Fullline	PH	EC	SAR	Bron	0.15 Metals		
PLW-301E5'	9/16/15	0958	3	S	UNP	X							
PLW-ND1E2.5'		1005	3			X							
ASTD1E0.5'		1015	3			X							
TR-3021E0.5'		1015	3				X	X	X	X			
SE101-041E1E3'		1045	3			X				X			
SE101-101E1E3'		1050	3			X							

Relinquished By: [Signature] Date: 9/10/2025 Time: 1635
 Relinquished By: _____ Date: _____ Time: _____

Received By: [Signature] Date: 9/10/25 Time: 1636
 Received By: _____ Date: _____ Time: _____

Temp Received - 4.0 Received On Ice? Yes No
 Turnaround Time SAME DAY 24 Hr 48 Hr Standard 72

Sample Receipt Checklist

Origins Work Order: ESI0259

Client: Enxolum

Client Project ID: Smits, Schmidt

Checklist Completed by: smc/smc

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

Date/time completed: 9/11/25

Airbill #: N/A

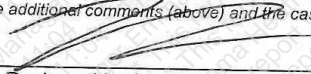
Matrix(s) Received: (Check all that apply): Soil/Soild Water Other: _____

Cooler Number/Temperature: 1 / 4.0 °C (Describe)

Thermometer ID: T-004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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


Reviewed by (Project Manager)

09/11/25
Date/Time Reviewed



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

Jeremy Espinoza
 Project Number: 09A14171239
 Project: KMG - Smits Fed, Schmidt P2 Fac

PWV-B01@5'
9/10/2025 9:58:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E510259-01 (Soil)									
Enthalpy Analytical									
Total Metals by SW7199									
Chromium, Hexavalent	ND	0.08	0.21	mg/kg dry	1	Bill1184	09/22/2025	09/23/2025	
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	ND		0.102	mg/L dry	1	B511150	09/11/2025	09/15/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.5	mg/kg dry	1	B511204	09/12/2025	09/12/2025	U
Residual Range Organics (C28-C36)	ND		102	"	"	"	"	"	U
Surrogate: o-Terphenyl	63.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B511212	09/12/2025	09/12/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

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PWW-B01@5'

9/10/2025 9:58:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.204	mg/kg dry	1	B511212	09/12/2025	09/12/2025	U
Surrogate: 1,2-Dichloroethane-d4	106 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	09/11/2025	09/15/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B511237	09/12/2025	09/14/2025	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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9/10/2025 9:58:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-01 (Soil)
 Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg dry	1	B511237	09/12/2025	09/14/2025	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	97.0 %				60-130	"	"	"	
Surrogate: Pyrene-d10	98.6 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %				60-130	"	"	"	

pH in Soil by 9045D

pH	6.48			pH Units	1	B511158	09/11/2025	09/15/2025	
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SAR by 20B Saturated Paste

SAR	0.578		0.0100	SAR	1	B511154	09/11/2025	09/15/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0788		0.00500	mmhos/cm	1	B511158	09/11/2025	09/15/2025	
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PWV-B01@5'
 9/10/2025 9:58:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-01 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.15		0.206	mg/kg dry	10	B511155	09/11/2025	09/15/2025	
Barium	ND		58.1	"	"	"	"	"	U
Cadmium	ND		0.269	"	"	"	"	"	U
Copper	ND		32.6	"	"	"	"	"	U
Lead	ND		9.93	"	"	"	"	"	U
Nickel	ND		18.4	"	"	"	"	"	U
Selenium	ND		0.174	"	"	"	"	"	U
Silver	ND		0.567	"	"	"	"	"	U
Zinc	ND		262	"	"	"	"	"	U

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PWV-N01@2.5'
9/10/2025 10:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-02 (Soil)
Enthalpy Analytical

Total Metals by SW7199

Chromium, Hexavalent	ND	0.09	0.21	mg/kg dry	1	Bill184	09/22/2025	09/24/2025	
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	0.119		0.109	mg/L dry	1	B511150	09/11/2025	09/15/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		27.3	mg/kg dry	1	B511204	09/12/2025	09/12/2025	U
Residual Range Organics (C28-C36)	ND		109	"	"	"	"	"	U

Surrogate: o-Terphenyl	59.3 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B511212	09/12/2025	09/12/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

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PWV-N01@2.5'

9/10/2025 10:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510259-02 (Soil)
 Origins Laboratory**

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.219	mg/kg dry	1	B511212	09/12/2025	09/12/2025	U
Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		"	"	"	
Surrogate: Toluene-d8	93.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.11		0.499	meq/L	10	[CALC]	09/11/2025	09/15/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B511237	09/12/2025	09/14/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171239
 Project: KMG - Smits Fed, Schmidt P2 Fac

PWV-N01@2.5'

9/10/2025 10:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510259-02 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.022	mg/kg dry	1	B511237	09/12/2025	09/14/2025	U
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	U
Fluoranthene	ND		0.022	"	"	"	"	"	U
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.022	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.4 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.80			pH Units	1	B511158	09/11/2025	09/15/2025	
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SAR by 20B Saturated Paste

SAR	0.107		0.0100	SAR	1	B511154	09/11/2025	09/15/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.231		0.00500	mmhos/cm	1	B511158	09/11/2025	09/15/2025	
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PWV-N01@2.5'
 9/10/2025 10:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E510259-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	1.79		0.203	mg/kg dry	10	B511155	09/11/2025	09/15/2025	
Barium	ND		57.2	"	"	"	"	"	U
Cadmium	ND		0.265	"	"	"	"	"	U
Copper	ND		32.1	"	"	"	"	"	U
Lead	ND		9.77	"	"	"	"	"	U
Nickel	ND		18.1	"	"	"	"	"	U
Selenium	0.174		0.172	"	"	"	"	"	
Silver	ND		0.558	"	"	"	"	"	U
Zinc	ND		258	"	"	"	"	"	U

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 Project Number: 09A14171239
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AST01@0.5'
9/10/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-03 (Soil)
Enthalpy Analytical

Total Metals by SW7199

Chromium, Hexavalent	0.19	0.09	0.23	mg/kg dry	1	Bill184	09/22/2025	09/24/2025	J
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Origins Laboratory

Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	ND		0.115	mg/L dry	1	B51151	09/11/2025	09/15/2025	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		28.8	mg/kg dry	1	B511204	09/12/2025	09/12/2025	U
Residual Range Organics (C28-C36)	ND		115	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.5 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.026		0.002	mg/kg dry	1	B511212	09/12/2025	09/12/2025	
1,3,5-Trimethylbenzene	0.014		0.002	"	"	"	"	"	
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	0.002		0.002	"	"	"	"	"	
Xylenes, total	0.120		0.002	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.995		0.231	"	"	"	"	"	

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 Project Number: 09A14171239
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AST01@0.5'

9/10/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510259-03 (Soil)
 Origins Laboratory**

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		B51212	09/12/2025	09/12/2025	
Surrogate: Toluene-d8	93.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.79		0.499	meq/L	10	[CALC]	09/11/2025	09/15/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B51237	09/12/2025	09/14/2025	U
2-Methylnaphthalene	0.004		0.002	"	"	"	"	"	
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U
Chrysene	ND		0.023	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171239
 Project: KMG - Smits Fed, Schmidt P2 Fac

AST01@0.5'

9/10/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510259-03 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.023	mg/kg dry	1	B511237	09/12/2025	09/14/2025	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	0.002		0.002	"	"	"	"	"	
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.1 %			60-130		"	"	"	
Surrogate: Pyrene-d10	94.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.79			pH Units	1	B511158	09/11/2025	09/15/2025	
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SAR by 20B Saturated Paste

SAR	0.0647		0.0100	SAR	1	B511154	09/11/2025	09/15/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.261		0.00500	mmhos/cm	1	B511158	09/11/2025	09/15/2025	
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Table 915 metals by EPA 6020B

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 Project: KMG - Smits Fed, Schmidt P2 Fac

AST01@0.5'

9/10/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510259-03 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	2.41		0.235	mg/kg dry	10	B511155	09/11/2025	09/15/2025	
Barium	93.5		66.2	"	"	"	"	"	
Cadmium	0.407		0.307	"	"	"	"	"	
Copper	ND		37.2	"	"	"	"	"	U
Lead	ND		11.3	"	"	"	"	"	U
Nickel	ND		21.0	"	"	"	"	"	U
Selenium	0.283		0.199	"	"	"	"	"	
Silver	ND		0.646	"	"	"	"	"	U
Zinc	ND		299	"	"	"	"	"	U

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TB-BG01@0.5'
9/10/2025 10:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E510259-04 (Soil)									
Enthalpy Analytical									
Total Metals by SW7199									
Chromium, Hexavalent	0.09	0.09	0.22	mg/kg dry	1	Bill1184	09/22/2025	09/24/2025	J
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	ND		0.105	mg/L dry	1	B511151	09/11/2025	09/15/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	0.876		0.499	meq/L	10	[CALC]	09/11/2025	09/15/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.04			pH Units	1	B511158	09/11/2025	09/15/2025	
SAR by 20B Saturated Paste									
SAR	0.146		0.0100	SAR	1	B511154	09/11/2025	09/15/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.154		0.00500	mmhos/cm	1	B511158	09/11/2025	09/15/2025	

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TB-BG01@0.5'
9/10/2025 10:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.38		0.203	mg/kg dry	10	B511155	09/11/2025	09/15/2025	
Barium	73.4		57.2	"	"	"	"	"	
Cadmium	ND		0.265	"	"	"	"	"	U
Copper	ND		32.1	"	"	"	"	"	U
Lead	ND		9.77	"	"	"	"	"	U
Nickel	ND		18.2	"	"	"	"	"	U
Selenium	0.232		0.172	"	"	"	"	"	
Silver	ND		0.559	"	"	"	"	"	U
Zinc	ND		258	"	"	"	"	"	U

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SEP01-Outlet@3'
9/10/2025 10:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-05 (Soil)
Enthalpy Analytical

Total Metals by SW7199

Chromium, Hexavalent	ND	0.10	0.24	mg/kg dry	1	Bill184	09/22/2025	09/24/2025	
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Boron (DTPA Sorbitol)

(DTPA Sorbitol) Boron	0.162		0.118	mg/L dry	1	B51151	09/11/2025	09/15/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	613		29.5	mg/kg dry	1	B511204	09/12/2025	09/12/2025	
Residual Range Organics (C28-C36)	451		118	"	"	"	"	"	

Surrogate: o-Terphenyl	88.6 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B511212	09/12/2025	09/12/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

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 Project: KMG - Smits Fed, Schmidt P2 Fac

SEP01-Outlet@3'
9/10/2025 10:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-05 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.236	mg/kg dry	1	B511212	09/12/2025	09/12/2025	U
Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	94.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.27		0.499	meq/L	10	[CALC]	09/11/2025	09/15/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.457		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B511237	09/12/2025	09/15/2025	U
2-Methylnaphthalene	0.003		0.002	"	"	"	"	"	
Acenaphthene	0.041		0.024	"	"	"	"	"	
Anthracene	0.189		0.024	"	"	"	"	"	
Benzo (a) anthracene	0.907		0.006	"	"	"	"	"	
Benzo (a) pyrene	0.492		0.024	"	"	"	"	"	
Benzo (b) fluoranthene	0.566		0.024	"	"	"	"	"	
Benzo (k) fluoranthene	0.223		0.024	"	"	"	"	"	
Chrysene	0.877		0.024	"	"	"	"	"	
Dibenz (a,h) anthracene	0.047		0.024	"	"	"	"	"	

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SEP01-Outlet@3'
9/10/2025 10:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-05 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	2.00		0.236	mg/kg dry	10	B511237	09/12/2025	09/16/2025	
Fluorene	0.043		0.024	"	1	"	"	09/15/2025	
Indeno (1,2,3-cd) pyrene	0.200		0.024	"	"	"	"	"	
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	1.63		0.236	"	10	"	"	09/16/2025	

Surrogate: Fluorene-d10	101 %				60-130	"	"	09/15/2025	
Surrogate: Anthracene-d10	94.9 %				60-130	"	"	"	
Surrogate: Pyrene-d10	96.8 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %				60-130	"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B511158	09/11/2025	09/15/2025	
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SAR by 20B Saturated Paste

SAR	0.506		0.0100	SAR	1	B511154	09/11/2025	09/15/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.248		0.00500	mmhos/cm	1	B511158	09/11/2025	09/15/2025	
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Table 915 metals by EPA 6020B

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SEP01-Outlet@3'
9/10/2025 10:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.50		0.233	mg/kg dry	10	B511155	09/11/2025	09/15/2025	
Barium	75.6		65.7	"	"	"	"	"	
Cadmium	ND		0.304	"	"	"	"	"	U
Copper	ND		36.8	"	"	"	"	"	U
Lead	ND		11.2	"	"	"	"	"	U
Nickel	ND		20.8	"	"	"	"	"	U
Selenium	0.244		0.197	"	"	"	"	"	
Silver	ND		0.641	"	"	"	"	"	U
Zinc	ND		296	"	"	"	"	"	U

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 Project: KMG - Smits Fed, Schmidt P2 Fac

SEP01-Inlet@3'
9/10/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E510259-06 (Soil)									
Enthalpy Analytical									
Total Metals by SW7199									
Chromium, Hexavalent	0.16	0.10	0.25	mg/kg dry	1	Bill1184	09/22/2025	09/24/2025	J
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.156		0.121	mg/L dry	1	B511151	09/11/2025	09/15/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		30.4	mg/kg dry	1	B511204	09/12/2025	09/12/2025	U
Residual Range Organics (C28-C36)	ND		121	"	"	"	"	"	U
Surrogate: o-Terphenyl	72.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B511212	09/12/2025	09/12/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

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Jeremy Espinoza
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 Project: KMG - Smits Fed, Schmidt P2 Fac

SEP01-Inlet@3'
9/10/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510259-06 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.243	mg/kg dry	1	B511212	09/12/2025	09/12/2025	U
Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	94.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.44		0.499	meq/L	10	[CALC]	09/11/2025	09/15/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B511237	09/12/2025	09/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	0.016		0.006	"	"	"	"	"	
Benzo (a) pyrene	ND		0.024	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U

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 Project: KMG - Smits Fed, Schmidt P2 Fac

SEP01-Inlet@3'

9/10/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510259-06 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.024	mg/kg dry	1	B511237	09/12/2025	09/15/2025	U
Dibenz (a,h) anthracene	ND		0.024	"	"	"	"	"	U
Fluoranthene	ND		0.024	"	"	"	"	"	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.025		0.024	"	"	"	"	"	

Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	108 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.90			pH Units	1	B511158	09/11/2025	09/15/2025	
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SAR by 20B Saturated Paste

SAR	0.137		0.0100	SAR	1	B511154	09/11/2025	09/15/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.272		0.00500	mmhos/cm	1	B511158	09/11/2025	09/15/2025	
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 Project: KMG - Smits Fed, Schmidt P2 Fac

SEP01-Inlet@3'

9/10/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510259-06 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	3.90		0.231	mg/kg dry	10	B511155	09/11/2025	09/15/2025	
Barium	117		65.1	"	"	"	"	"	
Cadmium	0.741		0.302	"	"	"	"	"	
Copper	ND		36.5	"	"	"	"	"	U
Lead	19.4		11.1	"	"	"	"	"	
Nickel	ND		20.6	"	"	"	"	"	U
Selenium	0.362		0.195	"	"	"	"	"	
Silver	ND		0.635	"	"	"	"	"	U
Zinc	ND		294	"	"	"	"	"	U

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 Project: KMG - Smits Fed, Schmidt P2 Fac

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 B511150 - DTPA Sorbitol Preparation

Blank (B511150-BLK1)										
Prepared: 09/11/2025 Analyzed: 09/15/2025										
(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
Duplicate (B511150-DUP1)										
Source: E510253-01 Prepared: 09/11/2025 Analyzed: 09/15/2025										
(DTPA Sorbitol) Boron	4.59	0.119	mg/L dry		4.66			1.37	50	

Batch B511151 - DTPA Sorbitol Preparation

Blank (B511151-BLK1)										
Prepared: 09/11/2025 Analyzed: 09/15/2025										
(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
Duplicate (B511151-DUP1)										
Source: E510257-01 Prepared: 09/11/2025 Analyzed: 09/15/2025										
(DTPA Sorbitol) Boron	1.17	0.117	mg/L dry		1.23			4.56	50	

Batch B511154 - Saturated Paste Metals

Blank (B511154-BLK1)										
Prepared: 09/11/2025 Analyzed: 09/15/2025										
Calcium PPM	ND	10.0	mg/L							U
SAR	ND	0.0100	SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U
Duplicate (B511154-DUP1)										
Source: E510255-01 Prepared: 09/11/2025 Analyzed: 09/15/2025										
Calcium PPM	326	10.0	mg/L		383			16.0	50	
SAR	ND	0.0100	SAR		10.7				200	U
Magnesium PPM	24.5	10.0	mg/L		29.3			18.0	50	
Sodium PPM	670	10.0	"		805			18.3	50	

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 Project: KMG - Smits Fed, Schmidt P2 Fac

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 B511237 - EPA 3580

Blank (B511237-BLK1)

Prepared: 09/12/2025 Analyzed: 09/14/2025

1-Methylnaphthalene	ND	0.002	mg/kg wet							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
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	200		ug/kg	200	101	60-130				
Surrogate: Anthracene-d10	190		"	200	93.7	60-130				
Surrogate: Pyrene-d10	200		"	200	98.8	60-130				
Surrogate: Benzo (a) pyrene-d12	210		"	200	107	60-130				

LCS (B511237-BS1)

Prepared: 09/12/2025 Analyzed: 09/14/2025

1-Methylnaphthalene	0.190	0.002	mg/kg wet	0.200	94.9	70-130				
2-Methylnaphthalene	0.205	0.002	"	0.200	102	70-130				
Acenaphthene	0.182	0.020	"	0.200	90.8	70-130				
Anthracene	0.163	0.020	"	0.200	81.5	70-130				
Benzo (a) anthracene	0.175	0.005	"	0.200	87.5	70-130				
Benzo (a) pyrene	0.181	0.020	"	0.200	90.5	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 B511237 - EPA 3580

LCS (B511237-BS1)

Prepared: 09/12/2025 Analyzed: 09/14/2025

Benzo (b) fluoranthene	0.189	0.020	mg/kg wet	0.200		94.3	70-130			
Benzo (k) fluoranthene	0.188	0.020	"	0.200		93.8	70-130			
Chrysene	0.174	0.020	"	0.200		86.9	70-130			
Dibenz (a,h) anthracene	0.183	0.020	"	0.200		91.6	70-130			
Fluoranthene	0.180	0.020	"	0.200		90.2	70-130			
Fluorene	0.178	0.020	"	0.200		88.9	70-130			
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200		92.5	70-130			
Naphthalene	0.196	0.002	"	0.200		98.2	70-130			
Pyrene	0.179	0.020	"	0.200		89.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		96.9	60-130			
Surrogate: Pyrene-d10	200		"	200		98.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Matrix Spike (B511237-MS1)

Source: E510216-02

Prepared: 09/12/2025 Analyzed: 09/14/2025

1-Methylnaphthalene	0.194	0.002	mg/kg dry	0.209	ND	92.9	70-130			
2-Methylnaphthalene	0.211	0.002	"	0.209	ND	101	70-130			
Acenaphthene	0.184	0.021	"	0.209	ND	87.8	70-130			
Anthracene	0.167	0.021	"	0.209	ND	79.7	70-130			
Benzo (a) anthracene	0.174	0.005	"	0.209	ND	83.4	70-130			
Benzo (a) pyrene	0.184	0.021	"	0.209	0.001	87.7	70-130			
Benzo (b) fluoranthene	0.197	0.021	"	0.209	ND	94.0	70-130			
Benzo (k) fluoranthene	0.186	0.021	"	0.209	ND	88.9	70-130			
Chrysene	0.174	0.021	"	0.209	0.0007	82.9	70-130			
Dibenz (a,h) anthracene	0.188	0.021	"	0.209	0.0006	89.4	70-130			
Fluoranthene	0.182	0.021	"	0.209	ND	87.0	70-130			
Fluorene	0.184	0.021	"	0.209	0.0005	87.8	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B511237 - EPA 3580

Matrix Spike (B511237-MS1)		Source: E5I0216-02			Prepared: 09/12/2025 Analyzed: 09/14/2025		
Indeno (1,2,3-cd) pyrene	0.189	0.021	mg/kg dry	0.209	ND	90.2	70-130
Naphthalene	0.187	0.002	"	0.209	ND	89.6	70-130
Pyrene	0.183	0.021	"	0.209	ND	87.5	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130
Surrogate: Anthracene-d10	190		"	200		96.0	60-130
Surrogate: Pyrene-d10	190		"	200		96.6	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130

Matrix Spike Dup (B511237-MSD1)		Source: E5I0216-02			Prepared: 09/12/2025 Analyzed: 09/14/2025				
1-Methylnaphthalene	0.188	0.002	mg/kg dry	0.209	ND	89.8	70-130	3.39	20
2-Methylnaphthalene	0.206	0.002	"	0.209	ND	98.6	70-130	2.30	20
Acenaphthene	0.181	0.021	"	0.209	ND	86.7	70-130	1.30	20
Anthracene	0.161	0.021	"	0.209	ND	76.8	70-130	3.75	20
Benzo (a) anthracene	0.171	0.005	"	0.209	ND	81.9	70-130	1.78	20
Benzo (a) pyrene	0.182	0.021	"	0.209	0.001	86.3	70-130	1.58	20
Benzo (b) fluoranthene	0.188	0.021	"	0.209	ND	89.9	70-130	4.51	20
Benzo (k) fluoranthene	0.171	0.021	"	0.209	ND	81.7	70-130	8.48	20
Chrysene	0.172	0.021	"	0.209	0.0007	82.0	70-130	1.06	20
Dibenz (a,h) anthracene	0.184	0.021	"	0.209	0.0006	87.8	70-130	1.90	20
Fluoranthene	0.180	0.021	"	0.209	ND	85.8	70-130	1.35	20
Fluorene	0.178	0.021	"	0.209	0.0005	85.1	70-130	3.18	20
Indeno (1,2,3-cd) pyrene	0.183	0.021	"	0.209	ND	87.2	70-130	3.29	20
Naphthalene	0.182	0.002	"	0.209	ND	87.0	70-130	2.89	20
Pyrene	0.177	0.021	"	0.209	ND	84.6	70-130	3.41	20
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130		
Surrogate: Anthracene-d10	190		"	200		94.4	60-130		
Surrogate: Pyrene-d10	190		"	200		96.9	60-130		

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B511237 - EPA 3580

Matrix Spike Dup (B511237-MSD1)

Source: E5I0216-02

Prepared: 09/12/2025 Analyzed: 09/14/2025

Surrogate: Benzo (a) pyrene-d12	210		ug/kg	200		106	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 B511204 - EPA 3550B

Blank (B511204-BLK1)

Prepared: 09/12/2025 Analyzed: 09/12/2025

Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	100	"							U

Surrogate: o-Terphenyl

16	"	24.9	64.2	50-150
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LCS (B511204-BS1)

Prepared: 09/12/2025 Analyzed: 09/12/2025

Diesel (C10-C28)	1010	50.0	mg/kg wet	1000	101	70-130
Residual Range Organics (C28-C36)	1100	200	"	1000	110	70-130

Surrogate: o-Terphenyl

46	"	49.8	93.4	50-150
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Matrix Spike (B511204-MS1)

Source: E510254-05

Prepared: 09/12/2025 Analyzed: 09/12/2025

Diesel (C10-C28)	992	55.1	mg/kg dry	1100	ND	90.1	70-130
Residual Range Organics (C28-C36)	1070	220	"	1100	ND	97.0	70-130

Surrogate: o-Terphenyl

40	"	54.8	73.3	50-150
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Matrix Spike Dup (B511204-MSD1)

Source: E510254-05

Prepared: 09/12/2025 Analyzed: 09/12/2025

Diesel (C10-C28)	1170	55.1	mg/kg dry	1100	ND	106	70-130	16.3	35
Residual Range Organics (C28-C36)	1280	220	"	1100	ND	116	70-130	17.7	35

Surrogate: o-Terphenyl

46	"	54.8	84.0	50-150
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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 B511155 - EPA 3050B

Blank (B511155-BLK1)

Prepared: 09/11/2025 Analyzed: 09/15/2025

Terbium (H2)	109		mg/kg wet				70-130			
Bismuth (H2)	102		"				70-130			
Arsenic	ND	0.218	"							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U
Zinc	ND	278	"							U

LCS (B511155-BS1)

Prepared: 09/11/2025 Analyzed: 09/15/2025

Terbium (H2)	109		mg/kg wet				70-130			
Bismuth (H2)	103		"				70-130			
Arsenic	5.09	0.218	"	5.00		102	80-120			
Barium	525	61.5	"	500		105	80-120			
Cadmium	5.54	0.285	"	5.00		111	80-120			
Copper	53.4	34.5	"	50.0		107	80-120			
Lead	5.25	10.5	"	5.00		105	80-120			U
Nickel	5.28	19.5	"	5.00		106	80-120			U
Selenium	5.08	0.184	"	5.00		102	80-120			
Silver	5.74	0.600	"	5.00		115	80-120			
Zinc	51.8	278	"	50.0		104	80-120			U

Matrix Spike (B511155-MS1)

Source: E510242-06

Prepared: 09/11/2025 Analyzed: 09/15/2025

Terbium (H2)	121		mg/kg dry		119		70-130			
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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 B5I1155 - EPA 3050B

Matrix Spike (B5I1155-MS1)

Source: E5I0242-06

Prepared: 09/11/2025 Analyzed: 09/15/2025

Bismuth (H2)	113		mg/kg dry		112		70-130			
Arsenic	10.3	0.243	"	5.57	4.28	108	75-125			
Barium	1060	68.5	"	557	460	108	75-125			
Cadmium	6.69	0.318	"	5.57	0.309	115	75-125			
Copper	81.8	38.4	"	55.7	19.7	111	75-125			
Lead	21.1	11.7	"	5.57	14.4	120	75-125			
Nickel	22.7	21.7	"	5.57	16.2	117	75-125			
Selenium	5.92	0.206	"	5.57	0.379	99.4	75-125			
Silver	6.47	0.669	"	5.57	0.0294	116	75-125			
Zinc	139	309	"	55.7	77.2	111	75-125			U

Matrix Spike Dup (B5I1155-MSD1)

Source: E5I0242-06

Prepared: 09/11/2025 Analyzed: 09/15/2025

Terbium (H2)	119		mg/kg dry		119		70-130	1.77		
Bismuth (H2)	108		"		112		70-130	3.79		
Arsenic	9.71	0.247	"	5.66	4.28	95.9	75-125	5.74	20	
Barium	1130	69.6	"	566	460	118	75-125	6.26	20	
Cadmium	6.40	0.323	"	5.66	0.309	108	75-125	4.40	20	
Copper	76.5	39.1	"	56.6	19.7	100	75-125	6.69	20	
Lead	19.5	11.9	"	5.66	14.4	90.5	75-125	7.74	20	
Nickel	21.2	22.1	"	5.66	16.2	89.0	75-125	6.63	20	U
Selenium	5.95	0.209	"	5.66	0.379	98.3	75-125	0.524	20	
Silver	6.17	0.679	"	5.66	0.0294	109	75-125	4.62	20	
Zinc	132	314	"	56.6	77.2	96.3	75-125	5.45	20	U

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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 B511158 - Saturated Paste pH/EC

Blank (B511158-BLK1)

Prepared: 09/11/2025 Analyzed: 09/15/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B511158-DUP1)

Source: E5I0255-01

Prepared: 09/11/2025 Analyzed: 09/15/2025

Specific Conductance (EC)	6.13	0.00500	mmhos/cm		6.67		3.36		25	
pH	7.72		pH Units		7.67		0.650		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 B511212 - EPA 5030 (soil)

Prepared: 09/12/2025 Analyzed: 09/12/2025

Blank (B511212-BLK1)

1,2,4-Trimethylbenzene	ND	0.002	mg/kg wet							U
1,3,5-Trimethylbenzene	ND	0.002	"							U
Benzene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

LCS (B511212-BS1)

Prepared: 09/12/2025 Analyzed: 09/12/2025

1,2,4-Trimethylbenzene	0.109	0.002	mg/kg wet	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.107	0.002	"	0.100		107	70-130			
Benzene	0.093	0.002	"	0.100		92.7	70-130			
Ethylbenzene	0.110	0.002	"	0.100		110	70-130			
Naphthalene	0.095	0.004	"	0.100		94.6	70-130			
Toluene	0.097	0.002	"	0.100		97.2	70-130			
o-Xylene	0.107	0.002	"	0.100		107	70-130			
m,p-Xylene	0.221	0.004	"	0.200		110	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Matrix Spike (B511212-MS1)

Source: E510247-01

Prepared: 09/12/2025 Analyzed: 09/12/2025

1,2,4-Trimethylbenzene	0.155	0.003	mg/kg dry	0.149	ND	104	70-130			
1,3,5-Trimethylbenzene	0.150	0.003	"	0.149	ND	100	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 B511212 - EPA 5030 (soil)

Matrix Spike (B511212-MS1)			Source: E510247-01			Prepared: 09/12/2025 Analyzed: 09/12/2025				
Benzene	0.138	0.003	mg/kg dry	0.149	ND	92.1	70-130			
Ethylbenzene	0.158	0.003	"	0.149	ND	106	70-130			
Naphthalene	0.138	0.006	"	0.149	ND	92.1	70-130			
Toluene	0.142	0.003	"	0.149	ND	94.8	70-130			
o-Xylene	0.157	0.003	"	0.149	ND	105	70-130			
m,p-Xylene	0.314	0.006	"	0.299	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.21		"	0.187		113	70-130			
Surrogate: Toluene-d8	0.18		"	0.187		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.19		"	0.187		103	70-130			

Matrix Spike Dup (B511212-MSD1)			Source: E510247-01			Prepared: 09/12/2025 Analyzed: 09/12/2025				
1,2,4-Trimethylbenzene	0.138	0.003	mg/kg dry	0.149	ND	92.1	70-130	11.9	20	
1,3,5-Trimethylbenzene	0.133	0.003	"	0.149	ND	89.1	70-130	12.0	20	
Benzene	0.125	0.003	"	0.149	ND	83.4	70-130	9.85	20	
Ethylbenzene	0.141	0.003	"	0.149	ND	94.6	70-130	11.4	20	
Naphthalene	0.126	0.006	"	0.149	ND	84.6	70-130	8.51	20	
Toluene	0.127	0.003	"	0.149	ND	85.2	70-130	10.6	20	
o-Xylene	0.141	0.003	"	0.149	ND	94.3	70-130	10.9	20	
m,p-Xylene	0.281	0.006	"	0.299	ND	94.2	70-130	10.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.21		"	0.187		114	70-130			
Surrogate: Toluene-d8	0.17		"	0.187		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.19		"	0.187		104	70-130			

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Jeremy Espinoza
 Project Number: 09A14171239
 Project: KMG - Smits Fed, Schmidt P2 Fac

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 BII1184 - No Prep IC-WET										
Blank (BII1184-BLK1)										
					Prepared: 09/22/2025 Analyzed: 09/23/2025					
Chromium, Hexavalent	ND	0.005	mg/kg wet dry				-			
LCS (BII1184-BS1)										
					Prepared: 09/22/2025 Analyzed: 09/23/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg wet dry	0.0500		101	80-120			
LCS (BII1184-BS2)										
					Prepared: 09/22/2025 Analyzed: 09/23/2025					
Chromium, Hexavalent	6.77	1.00	mg/kg wet dry	8.24		82.1	80-120			
Matrix Spike (BII1184-MS1)										
					Source: 25I1333-05					
					Prepared: 09/22/2025 Analyzed: 09/24/2025					
Chromium, Hexavalent	2.43	0.22	mg/kg dry	2.25	0.09	104	75-125			
Matrix Spike Dup (BII1184-MSD1)										
					Source: 25I1333-05					
					Prepared: 09/22/2025 Analyzed: 09/24/2025					
Chromium, Hexavalent	2.35	0.22	mg/kg dry	2.24	0.09	101	75-125	3.62	20	

Origins Laboratory

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

ORIGINS LABORATORY

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Notes and Definitions

- U Sample is Non-Detect.
- J The reported result is an estimated value.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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