



Eagle Environmental Consulting, LLC

March 06, 2025

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - UPRR 1-1

Project Number - -

Attached are your analytical results for UPRR 1-1 received by Origins Laboratory February 20, 2025. This project is associated with Origins project number E5B0515-01.

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



Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

David Castro
Project Number: -
Project: UPRR 1-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-SS-01@3'	E5B0515-01	Soil	February 20, 2025 11:20	02/20/2025 16:41
SEP-SS-02@4'	E5B0515-02	Soil	February 20, 2025 11:22	02/20/2025 16:41
AST01-SS-01@0.5'	E5B0515-03	Soil	February 20, 2025 11:26	02/20/2025 16:41
AST02-SS-01@0.5'	E5B0515-04	Soil	February 20, 2025 11:28	02/20/2025 16:41

Origins Laboratory

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ORIGINS LABORATORY

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: -
 Project: UPRR 1-1

ORIGINS
LABORATORY

ESB0015

Page 1 of 1

15725 5th Avenue Denver, CO 80202 | Phone: (303) 425-1122 | Fax: (303) 425-1123


Temp Received - 0°C Received On Ice? Yes No

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservation	Analysis		Comments
					Project	Analysis	
SEP-SO-05	11/10/15	1100	5	UHP	X		
SEP-SO-04	11/10/15	1102	1				
SEP-SO-03	11/10/15	1106	1				
ASOT-SO-01	11/10/15	1108	1				

Reimbursed By: <u>[Signature]</u>	Date: <u>11/11/15</u>	Time: <u>6:41</u>	Received By: <u>VS</u>	Date: <u>11/10/15</u>	Time: <u>6:41</u>
Reimbursed By:	Date:	Time:	Received By:	Date:	Time:

Turnaround Time
 48 Hr 72 Hr
 SAME DAY 24 Hr
 Standard

Client: EMMA HEATHER-SOUDERS CONSULTING
 Address: 1401 W 44th Ave
 Telephone Number: 303-425-1122
 Email Address: emma@ehsconsulting.com
 Project Manager: David Castro
 Project Name: UPRR 1-1
 Project Number: ESB0015
 Collected By: SL
 Invoice/Billing Info: Per Invoice
 W=Water M=Moisture S=Surface Water GW=Groundwater W-W=Waste Water L=Liquid

Origins Laboratory


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 Project Number: -
 Project: UPRR 1-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ES80515 Client: EAGLE
 Client Project ID: UPRR 1-1
 Checklist Completed by: JAR/SEM Shipped Via: HD
 Date/time completed: 2/26/25 (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 / 10.6 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C
 Thermometer ID: 7007

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 ensure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄ / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 2/21/25

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 Wheat Ridge CO 80033

David Castro
 Project Number: -
 Project: UPRR 1-1

SEP-SS-01@3'
2/20/2025 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.55		0.101	mg/L	1	B5B2108	02/21/2025	02/24/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	791		25.0	mg/kg	1	B5B2102	02/21/2025	02/21/2025	
Residual Range Organics (C28-C40)	2010		100	"	"	"	"	02/24/2025	

Surrogate: <i>o</i> -Terphenyl	88.7 %		50-150			"	"	02/21/2025	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2119	02/21/2025	02/21/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			"	"	"	
Surrogate: Toluene-d8	108 %		70-130			"	"	"	

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SEP-SS-01@3'
2/20/2025 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	101 %	70-130	B5B21 19	02/21/2025	02/21/2025
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Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	02/21/2025	02/26/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	13.6	0.435	"	"	"	"	"

PAH by 3541/8270

1-Methylnaphthalene	ND	0.00127	0.00383	mg/kg dry	1	2758182	03/01/2025	03/02/2025	U
2-Methylnaphthalene	ND	0.00127	0.00383	"	"	"	"	"	U
Acenaphthene	ND	0.00127	0.00383	"	"	"	"	"	U
Anthracene	ND	0.00127	0.00383	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00127	0.00383	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00127	0.00383	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00127	0.00383	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00127	0.00383	"	"	"	"	"	U
Chrysene	0.128	0.00127	0.00383	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00127	0.00383	"	"	"	"	"	U
Fluoranthene	0.00575	0.00127	0.00383	"	"	"	"	"	U
Fluorene	ND	0.00127	0.00383	"	"	"	"	"	U

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SEP-SS-01@3'
2/20/2025 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0515-01 (Soil)

PAH by 3541/8270

Indeno(1,2,3-cd)pyrene	ND	0.00127	0.00383	mg/kg dry	1	2758182	03/01/2025	03/02/2025	U
Naphthalene	ND	0.00127	0.00383	"	"	"	"	"	U
Pyrene	0.0272	0.00127	0.00383	"	"	"	"	"	

Surrogate: 5-alpha-Androstane 66 % 22-135 " " "

pH in Soil by 9045D

pH	8.17			pH Units	1	B5B2112	02/21/2025	02/25/2025	
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SAR by 20B Saturated Paste

SAR	15.7		0.0100	SAR	1	B5B2104	02/21/2025	02/26/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.37		0.00500	mmhos/cm	1	B5B2112	02/21/2025	02/25/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.91		0.264	mg/kg	10	B5B2022	02/20/2025	02/24/2025	
Barium	153		9.11	"	"	"	"	"	
Cadmium	0.208		0.0911	"	"	"	"	"	
Copper	10.6		9.11	"	"	"	"	"	

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SEP-SS-01@3'
2/20/2025 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-01 (Soil)

Table 915 metals by EPA 6020B

Lead	9.59		0.911	mg/kg	10	B5B2022	02/20/2025	02/24/2025	
Nickel	11.1		0.911	"	"	"	"	"	"
Selenium	ND		0.237	"	"	"	"	"	"
Silver	ND		0.0911	"	"	"	"	"	"
Zinc	88.7		33.7	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.129	0.323	mg/kg dry	1	2757228	02/28/2025	03/04/2025	U
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 Wheat Ridge CO 80033

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SEP-SS-02@4'
2/20/2025 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.04		0.0993	mg/L	1	B5B2108	02/21/2025	02/24/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	4060		25.0	mg/kg	1	B5B2102	02/21/2025	02/24/2025	
Residual Range Organics (C28-C40)	4180		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	55.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2119	02/21/2025	02/21/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	3.12		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	122 %		70-130			"	"	"	
Surrogate: Toluene-d8	110 %		70-130			"	"	"	

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SEP-SS-02@4'
2/20/2025 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	120 %	70-130	B5B21 19	02/21/2025	02/21/2025
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Metals by Saturated Paste by EPA 6010

Calcium	20.2	0.499	meq/L	10	[CALC]	02/21/2025	02/26/2025
Magnesium	4.77	0.823	"	"	"	"	"
Sodium	86.1	0.435	"	"	"	"	"

PAH by 3541/8270

1-Methylnaphthalene	0.0402	0.00118	0.00359	mg/kg dry	1	2758182	03/01/2025	03/02/2025	
2-Methylnaphthalene	0.0144	0.00118	0.00359	"	"	"	"	"	
Acenaphthene	ND	0.00118	0.00359	"	"	"	"	"	U
Anthracene	ND	0.00118	0.00359	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00118	0.00359	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00118	0.00359	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00118	0.00359	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00118	0.00359	"	"	"	"	"	U
Chrysene	0.134	0.00118	0.00359	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.00118	0.00359	"	"	"	"	"	U
Fluoranthene	0.0251	0.00118	0.00359	"	"	"	"	"	
Fluorene	0.0323	0.00118	0.00359	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00118	0.00359	"	"	"	"	"	U

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SEP-SS-02@4'
2/20/2025 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0515-02 (Soil)

PAH by 3541/8270

Naphthalene	ND	0.00118	0.00359	mg/kg dry	1	2758182	03/01/2025	03/02/2025	U
Pyrene	0.0492	0.00118	0.00359	"	"	"	"	"	"

Surrogate: 5-alpha-Androstane	83 %		22-135			"	"	"	
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pH in Soil by 9045D

pH	7.66			pH Units	1	B5B2112	02/21/2025	02/25/2025	
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SAR by 20B Saturated Paste

SAR	24.4		0.0100	SAR	1	B5B2104	02/21/2025	02/26/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	11.3		0.00500	mmhos/cm	1	B5B2112	02/21/2025	02/25/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.67		0.274	mg/kg	10	B5B2022	02/20/2025	02/24/2025	
Barium	474		9.44	"	"	"	"	"	
Cadmium	0.0963		0.0944	"	"	"	"	"	
Copper	ND		9.44	"	"	"	"	"	
Lead	5.22		0.944	"	"	"	"	"	

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SEP-SS-02@4'

2/20/2025 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-02 (Soil)

Table 915 metals by EPA 6020B

Nickel	5.94		0.944	mg/kg	10	B5B2022	02/20/2025	02/24/2025	
Selenium	ND		0.246	"	"	"	"	"	"
Silver	ND		0.0944	"	"	"	"	"	"
Zinc	ND		34.9	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.113	0.282	mg/kg dry	1	2757228	02/28/2025	03/04/2025	U
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AST01-SS-01@0.5'
2/20/2025 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.408		0.0995	mg/L	1	B5B2108	02/21/2025	02/24/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	16100		250	mg/kg	10	B5B2102	02/21/2025	02/24/2025	
Residual Range Organics (C28-C40)	14600		1000	"	"	"	"	"	

Surrogate: o-Terphenyl	%		50-150			"	"	"	S-06, Ua
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	3.74		0.0500	mg/kg	25	B5B2119	02/21/2025	02/22/2025	
1,3,5-Trimethylbenzene	0.360		0.00200	"	1	"	"	02/21/2025	
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	0.0601		0.00200	"	"	"	"	"	
Toluene	0.00498		0.00200	"	"	"	"	"	
Xylenes, total	2.57		0.0500	"	25	"	"	02/22/2025	
Gasoline Range Hydrocarbons	ND		0.200	"	1	"	"	02/21/2025	Ua

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			"	"	"	
Surrogate: Toluene-d8	119 %		70-130			"	"	02/22/2025	

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AST01-SS-01@0.5'
2/20/2025 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	100 %	70-130	B5B21 19	02/21/2025	02/22/2025
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Metals by Saturated Paste by EPA 6010

Calcium	15.5	0.499	meq/L	10	[CALC]	02/21/2025	02/26/2025
Magnesium	5.77	0.823	"	"	"	"	"
Sodium	114	4.35	"	100	"	"	02/26/2025

PAH by 3541/8270

1-Methylnaphthalene	9.15	0.0373	0.113	mg/kg dry	20	2758182	03/01/2025	03/03/2025	
2-Methylnaphthalene	11.4	0.0373	0.113	"	"	"	"	"	
Acenaphthene	ND	0.00932	0.0283	"	5	"	"	03/02/2025	U
Anthracene	ND	0.00932	0.0283	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00932	0.0283	"	"	"	"	"	U
Benzo(a)pyrene	1.27	0.00932	0.0283	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00932	0.0283	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00932	0.0283	"	"	"	"	"	U
Chrysene	1.72	0.00932	0.0283	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.00932	0.0283	"	"	"	"	"	U
Fluoranthene	0.509	0.00932	0.0283	"	"	"	"	"	
Fluorene	2.62	0.00932	0.0283	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00932	0.0283	"	"	"	"	"	U

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 Project: UPRR 1-1

AST01-SS-01@0.5'
2/20/2025 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0515-03 (Soil)

PAH by 3541/8270

Naphthalene	1.21	0.00932	0.0283	mg/kg dry	5	2758182	03/01/2025	03/02/2025	
Pyrene	0.438	0.00932	0.0283	"	"	"	"	"	

Surrogate: 5-alpha-Androstane 182 % 22-135 " " "

pH in Soil by 9045D

pH	2.88			pH Units	1	B5B2112	02/21/2025	02/25/2025	
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SAR by 20B Saturated Paste

SAR	35.0		0.0100	SAR	1	B5B2104	02/21/2025	02/26/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	16.1		0.00500	mmhos/cm	1	B5B2112	02/21/2025	02/25/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.86		0.275	mg/kg	10	B5B2022	02/20/2025	02/24/2025	
Barium	82.7		9.47	"	"	"	"	"	
Cadmium	ND		0.0947	"	"	"	"	"	
Copper	ND		9.47	"	"	"	"	"	
Lead	7.86		0.947	"	"	"	"	"	

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AST01-SS-01@0.5'
2/20/2025 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-03 (Soil)

Table 915 metals by EPA 6020B

Nickel	6.67		0.947	mg/kg	10	B5B2022	02/20/2025	02/24/2025	
Selenium	ND		0.246	"	"	"	"	"	"
Silver	ND		0.0947	"	"	"	"	"	"
Zinc	ND		35.1	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.117	0.291	mg/kg dry	1	2757228	02/28/2025	03/04/2025	U
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Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		1.01	mg/L	10	B5B2108	02/21/2025	02/25/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	907		25.0	mg/kg	1	B5B2102	02/21/2025	02/21/2025	
Residual Range Organics (C28-C40)	2530		100	"	"	"	"	02/24/2025	

Surrogate: <i>o</i> -Terphenyl	90.5 %		50-150			"	"	02/21/2025	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2119	02/21/2025	02/21/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.280		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	119 %		70-130			"	"	"	

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Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	111 %		70-130			B5B21 19	02/21/2025	02/21/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/21/2025	02/26/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	7.63		0.435	"	"	"	"	"	

PAH by 3541/8270

1-Methylnaphthalene	0.00838	0.00115	0.00349	mg/kg dry	1	2758182	03/01/2025	03/03/2025	
2-Methylnaphthalene	0.00943	0.00115	0.00349	"	"	"	"	"	
Acenaphthene	ND	0.00115	0.00349	"	"	"	"	"	U
Anthracene	0.00734	0.00115	0.00349	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00115	0.00349	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00115	0.00349	"	"	"	"	"	U
Benzo(b)fluoranthene	0.0185	0.00115	0.00349	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00115	0.00349	"	"	"	"	"	U
Chrysene	0.122	0.00115	0.00349	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.00115	0.00349	"	"	"	"	"	U
Fluoranthene	0.0115	0.00115	0.00349	"	"	"	"	"	
Fluorene	ND	0.00115	0.00349	"	"	"	"	"	U

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AST02-SS-01@0.5'
2/20/2025 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0515-04 (Soil)

PAH by 3541/8270

Indeno(1,2,3-cd)pyrene	ND	0.00115	0.00349	mg/kg dry	1	2758182	03/01/2025	03/03/2025	U
Naphthalene	0.00384	0.00115	0.00349	"	"	"	"	"	"
Pyrene	0.0259	0.00115	0.00349	"	"	"	"	"	"

Surrogate: 5-alpha-Androstane	73 %		22-135			"	"	"	
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pH in Soil by 9045D

pH	5.19			pH Units	1	B5B2112	02/21/2025	02/25/2025	
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SAR by 20B Saturated Paste

SAR	42.4		0.0100	SAR	1	B5B2104	02/21/2025	02/26/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.847		0.00500	mmhos/cm	1	B5B2112	02/21/2025	02/25/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.18		0.280	mg/kg	10	B5B2022	02/20/2025	02/24/2025	
Barium	53.7		9.64	"	"	"	"	"	
Cadmium	0.130		0.0964	"	"	"	"	"	
Copper	ND		9.64	"	"	"	"	"	

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AST02-SS-01@0.5'

2/20/2025 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0515-04 (Soil)

Table 915 metals by EPA 6020B

Lead	9.69		0.964	mg/kg	10	B5B2022	02/20/2025	02/24/2025	
Nickel	7.61		0.964	"	"	"	"	"	"
Selenium	ND		0.251	"	"	"	"	"	"
Silver	ND		0.0964	"	"	"	"	"	"
Zinc	36.8		35.7	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.154	0.386	mg/kg dry	1	2757228	02/28/2025	03/04/2025	U
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B2102 - EPA 3550B										
Blank (B5B2102-BLK1)										
					Prepared: 02/21/2025 Analyzed: 02/21/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.9	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2102 - EPA 3550B

LCS (B5B2102-BS1)

Prepared: 02/21/2025 Analyzed: 02/21/2025

Diesel (C10-C28)	975	50.0	mg/kg	1000		97.5	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2102 - EPA 3550B

Matrix Spike (B5B2102-MS1)

Source: E5B0504-02

Prepared: 02/21/2025 Analyzed: 02/21/2025

Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130			
Surrogate: o-Terphenyl	55		"	49.8		112	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2102 - EPA 3550B

Matrix Spike Dup (B5B2102-MSD1)

Source: E5B0504-02

Prepared: 02/21/2025 Analyzed: 02/21/2025

Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130	9.83	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	8.70	35	
Surrogate: o-Terphenyl	47		"	49.8		94.2	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2119 - EPA 5030 (soil)

Blank (B5B2119-BLK1)

Prepared: 02/21/2025 Analyzed: 02/21/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	110		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	108		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.4		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 B5B2119 - EPA 5030 (soil)

LCS (B5B2119-BS1)

Prepared: 02/21/2025 Analyzed: 02/21/2025

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg				70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"				70-130			
Benzene	0.108	0.00200	"				70-130			
Ethylbenzene	0.118	0.00200	"				70-130			
Toluene	0.103	0.00200	"				70-130			
o-Xylene	0.117	0.00200	"				70-130			
m,p-Xylene	0.234	0.00400	"				70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		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 B5B2119 - EPA 5030 (soil)

Matrix Spike (B5B2119-MS1)

Source: E5B0512-01

Prepared: 02/21/2025 Analyzed: 02/21/2025

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg		ND		70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"		ND		70-130			
Benzene	0.0960	0.00200	"		ND		70-130			
Ethylbenzene	0.112	0.00200	"		ND		70-130			
Toluene	0.118	0.00200	"		ND		70-130			
o-Xylene	0.111	0.00200	"		ND		70-130			
m,p-Xylene	0.221	0.00400	"		ND		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	107		70-130			
Surrogate: Toluene-d8	0.16		"	0.125	131		70-130			S-GC
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	108		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 B5B2119 - EPA 5030 (soil)

Matrix Spike Dup (B5B2119-MSD1)

Source: E5B0512-01

Prepared: 02/21/2025 Analyzed: 02/21/2025

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg		ND		70-130	1.90	20	
1,3,5-Trimethylbenzene	0.107	0.00200	"		ND		70-130	3.10	20	
Benzene	0.0951	0.00200	"		ND		70-130	1.03	20	
Ethylbenzene	0.108	0.00200	"		ND		70-130	4.35	20	
Toluene	0.0932	0.00200	"		ND		70-130	23.1	20	QR-03
o-Xylene	0.107	0.00200	"		ND		70-130	3.50	20	
m,p-Xylene	0.212	0.00400	"		ND		70-130	4.14	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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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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 B5B2022 - EPA 3050B

Blank (B5B2022-BLK1)

Prepared: 02/20/2025 Analyzed: 02/24/2025

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

LCS (B5B2022-BS1)

Prepared: 02/20/2025 Analyzed: 02/24/2025

Arsenic	5.46	0.290	mg/kg	5.00		109	80-120			
Barium	514	10.0	"	500		103	80-120			
Cadmium	5.23	0.100	"	5.00		105	80-120			
Copper	52.7	10.0	"	50.0		105	80-120			
Lead	5.08	1.00	"	5.00		102	80-120			
Nickel	5.52	1.00	"	5.00		110	80-120			
Selenium	5.23	0.260	"	5.00		105	80-120			
Silver	5.19	0.100	"	5.00		104	80-120			
Zinc	54.6	37.0	"	50.0		109	80-120			

Matrix Spike (B5B2022-MS1)

Source: E5B0515-03

Prepared: 02/20/2025 Analyzed: 02/24/2025

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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 B5B2022 - EPA 3050B

Matrix Spike (B5B2022-MS1)

Source: E5B0515-03

Prepared: 02/20/2025 Analyzed: 02/24/2025

Arsenic	9.26	0.280	mg/kg	4.83	3.86	112	75-125			
Barium	596	9.66	"	483	82.7	106	75-125			
Cadmium	5.30	0.0966	"	4.83	0.0568	108	75-125			
Copper	59.3	9.66	"	48.3	7.44	107	75-125			
Lead	13.3	0.966	"	4.83	7.86	113	75-125			
Nickel	12.4	0.966	"	4.83	6.67	118	75-125			
Selenium	5.08	0.251	"	4.83	0.157	102	75-125			
Silver	5.14	0.0966	"	4.83	0.0208	106	75-125			
Zinc	87.4	35.8	"	48.3	32.9	113	75-125			

Matrix Spike Dup (B5B2022-MSD1)

Source: E5B0515-03

Prepared: 02/20/2025 Analyzed: 02/24/2025

Arsenic	9.05	0.277	mg/kg	4.78	3.86	109	75-125	2.29	20	
Barium	607	9.56	"	478	82.7	110	75-125	1.78	20	
Cadmium	5.12	0.0956	"	4.78	0.0568	106	75-125	3.38	20	
Copper	58.1	9.56	"	47.8	7.44	106	75-125	2.12	20	
Lead	13.2	0.956	"	4.78	7.86	111	75-125	1.18	20	
Nickel	12.0	0.956	"	4.78	6.67	112	75-125	2.86	20	
Selenium	4.85	0.248	"	4.78	0.157	98.1	75-125	4.74	20	
Silver	5.00	0.0956	"	4.78	0.0208	104	75-125	2.71	20	
Zinc	85.2	35.4	"	47.8	32.9	109	75-125	2.59	20	

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Classical Chemistry Parameters - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2104 - Saturated Paste Metals

Blank (B5B2104-BLK1)

Prepared: 02/21/2025 Analyzed: 02/26/2025

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

Duplicate (B5B2104-DUP1)

Source: E5B0509-03

Prepared: 02/21/2025 Analyzed: 02/26/2025

SAR	ND	0.0100	SAR	0.755				200		
Calcium PPM	16.9	10.0	mg/L	17.5				3.37	50	
Magnesium PPM	2.74	10.0	"	2.69				1.84	50	
Sodium PPM	11.8	10.0	"	12.8				8.03	50	

Batch B5B2108 - DTPA Sorbitol Preparation

Blank (B5B2108-BLK1)

Prepared: 02/21/2025 Analyzed: 02/24/2025

Boron	ND	0.100	mg/L							
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Duplicate (B5B2108-DUP1)

Source: E5B0510-01

Prepared: 02/21/2025 Analyzed: 02/24/2025

Boron	0.111	0.100	mg/L	0.0831				28.7	50	
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Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2112 - Saturated Paste pH/EC

Blank (B5B2112-BLK1)

Prepared: 02/21/2025 Analyzed: 02/25/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5B2112-DUP1)

Source: E5B0509-03

Prepared: 02/21/2025 Analyzed: 02/25/2025

pH 8.30 pH Units 8.44 1.67 25

Specific Conductance (EC) 0.180 0.00500 mmhos/cm 0.180 0.0556 25

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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 2758182 - SW846 3541

BLANK (1206021728-BLK)

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

Naphthalene	ND	0.00325	mg/kg	-	-	-	-	-	-	U
Fluorene	ND	0.00325	"	-	-	-	-	-	-	U
Fluoranthene	ND	0.00325	"	-	-	-	-	-	-	U
Dibenzo(a,h)anthracene	ND	0.00325	"	-	-	-	-	-	-	U
Indeno(1,2,3-cd)pyrene	ND	0.00325	"	-	-	-	-	-	-	U
1-Methylnaphthalene	ND	0.00325	"	-	-	-	-	-	-	U
Chrysene	ND	0.00325	"	-	-	-	-	-	-	U
Anthracene	ND	0.00325	"	-	-	-	-	-	-	U
Acenaphthene	ND	0.00325	"	-	-	-	-	-	-	U
Pyrene	ND	0.00325	"	-	-	-	-	-	-	U
2-Methylnaphthalene	ND	0.00325	"	-	-	-	-	-	-	U
Benzo(a)anthracene	ND	0.00325	"	-	-	-	-	-	-	U
Benzo(a)pyrene	ND	0.00325	"	-	-	-	-	-	-	U
Benzo(b)fluoranthene	ND	0.00325	"	-	-	-	-	-	-	U
Benzo(k)fluoranthene	ND	0.00325	"	-	-	-	-	-	-	U

Surrogate: 5-alpha-Androstane

0.116

"

0.162

72

22-135

LCS (1206021729-BKS)

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

Indeno(1,2,3-cd)pyrene	0.262	0.00332	mg/kg	0.332	79	38-133
Benzo(a)pyrene	0.254	0.00332	"	0.332	77	39-127
Naphthalene	0.271	0.00332	"	0.332	82	38-109
Fluoranthene	0.234	0.00332	"	0.332	70	39-119
Dibenzo(a,h)anthracene	0.249	0.00332	"	0.332	75	38-132
Chrysene	0.260	0.00332	"	0.332	78	42-117
Benzo(b)fluoranthene	0.239	0.00332	"	0.332	72	39-123
Benzo(a)anthracene	0.262	0.00332	"	0.332	79	42-120
Fluorene	0.256	0.00332	"	0.332	77	37-115

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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 2758182 - SW846 3541

LCS (1206021729-BKS)

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

Anthracene	0.260	0.00332	mg/kg	0.332		78	41-117			
Acenaphthene	0.255	0.00332	"	0.332		77	41-112			
2-Methylnaphthalene	0.253	0.00332	"	0.332		76	39-110			
1-Methylnaphthalene	0.252	0.00332	"	0.332		76	39-109			
Pyrene	0.241	0.00332	"	0.332		73	38-117			
Benzo(k)fluoranthene	0.230	0.00332	"	0.332		69	40-122			
Surrogate: 5-alpha-Androstane	0.128		"	0.166		77	22-135			

LCS D (1206021730-BKSD)

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

Chrysene	0.258	0.00331	mg/kg	0.331		78	42-117	1	30	
Benzo(b)fluoranthene	0.238	0.00331	"	0.331		72	39-123	0	30	
1-Methylnaphthalene	0.241	0.00331	"	0.331		73	39-109	5	30	
2-Methylnaphthalene	0.240	0.00331	"	0.331		73	39-110	5	30	
Acenaphthene	0.247	0.00331	"	0.331		74	41-112	3	30	
Anthracene	0.253	0.00331	"	0.331		76	41-117	3	30	
Fluoranthene	0.228	0.00331	"	0.331		69	39-119	3	30	
Benzo(a)pyrene	0.251	0.00331	"	0.331		76	39-127	1	30	
Pyrene	0.238	0.00331	"	0.331		72	38-117	1	30	
Benzo(k)fluoranthene	0.224	0.00331	"	0.331		68	40-122	2	30	
Dibenzo(a,h)anthracene	0.246	0.00331	"	0.331		74	38-132	1	30	
Fluorene	0.249	0.00331	"	0.331		75	37-115	3	30	
Indeno(1,2,3-cd)pyrene	0.260	0.00331	"	0.331		79	38-133	1	30	
Naphthalene	0.259	0.00331	"	0.331		78	38-109	5	30	
Benzo(a)anthracene	0.259	0.00331	"	0.331		78	42-120	1	30	
Surrogate: 5-alpha-Androstane	0.126		"	0.165		76	22-135			

MS (1206021731 S)

Source: E5B0515-01

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

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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 2758182 - SW846 3541

MS (1206021731 S)

Source: E5B0515-01

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

Fluoranthene	0.187	0.00381	mg/kg dry	0.381	0.00575	47	14-136			
Fluorene	0.183	0.00381	"	0.381	<0.00126	48	16-134			
1-Methylnaphthalene	0.180	0.00381	"	0.381	<0.00126	47	15-129			
2-Methylnaphthalene	0.181	0.00381	"	0.381	<0.00126	47	15-132			
Acenaphthene	0.188	0.00381	"	0.381	<0.00126	49	17-129			
Anthracene	0.206	0.00381	"	0.381	<0.00126	54	18-136			
Benzo(a)anthracene	0.205	0.00381	"	0.381	<0.00126	54	20-132			
Benzo(a)pyrene	0.181	0.00381	"	0.381	<0.00126	47	16-133			
Benzo(b)fluoranthene	0.185	0.00381	"	0.381	<0.00126	48	14-136			
Benzo(k)fluoranthene	0.169	0.00381	"	0.381	<0.00126	44	18-138			
Indeno(1,2,3-cd)pyrene	0.206	0.00381	"	0.381	<0.00126	54	13-134			
Dibenzo(a,h)anthracene	0.178	0.00381	"	0.381	<0.00126	47	11-134			
Naphthalene	0.185	0.00381	"	0.381	<0.00126	48	16-126			
Pyrene	0.206	0.00381	"	0.381	0.0272	47	12-139			
Chrysene	0.276	0.00381	"	0.381	0.128	39	19-129			

Surrogate: 5-alpha-Androstane

0.128

"

0.191

0.126

67

22-135

MSD (1206021732 SD)

Source: E5B0515-01

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

Chrysene	0.293	0.00384	mg/kg dry	0.384	0.128	43	19-129	6	30	
Pyrene	0.199	0.00384	"	0.384	0.0272	45	12-139	3	30	
Indeno(1,2,3-cd)pyrene	0.194	0.00384	"	0.384	<0.00127	51	13-134	6	30	
Fluorene	0.168	0.00384	"	0.384	<0.00127	44	16-134	8	30	
Dibenzo(a,h)anthracene	0.166	0.00384	"	0.384	<0.00127	43	11-134	7	30	
1-Methylnaphthalene	0.168	0.00384	"	0.384	<0.00127	44	15-129	7	30	
Benzo(k)fluoranthene	0.152	0.00384	"	0.384	<0.00127	40	18-138	10	30	
Benzo(b)fluoranthene	0.183	0.00384	"	0.384	<0.00127	48	14-136	1	30	
Benzo(a)pyrene	0.174	0.00384	"	0.384	<0.00127	45	16-133	4	30	

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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 2758182 - SW846 3541

MSD (1206021732 SD)

Source: E5B0515-01

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

Benzo(a)anthracene	0.187	0.00384	mg/kg dry	0.384	<0.00127	49	20-132	9	30	
Anthracene	0.189	0.00384	"	0.384	<0.00127	49	18-136	9	30	
Acenaphthene	0.171	0.00384	"	0.384	<0.00127	45	17-129	10	30	
Naphthalene	0.174	0.00384	"	0.384	<0.00127	45	16-126	6	30	
2-Methylnaphthalene	0.170	0.00384	"	0.384	<0.00127	44	15-132	7	30	
Fluoranthene	0.173	0.00384	"	0.384	0.00575	44	14-136	8	30	
Surrogate: 5-alpha-Androstane	0.109		"	0.192	0.126	57	22-135			

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Total Metals 7196A - 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 2757228 - SW846 3060A

BLANK (1206019976-BLK)

Prepared: 02/28/2025 Analyzed: 03/04/2025

Hexavalent Chromium	ND	0.387	mg/kg				-			U
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LCS (1206019977-BKS)

Prepared: 02/28/2025 Analyzed: 03/04/2025

Hexavalent Chromium	3.17	0.317	mg/kg	3.17		100	80-120			
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DUP (1206019978 D)

Source: 710231001

Prepared: 02/28/2025 Analyzed: 03/04/2025

Hexavalent Chromium	ND	0.324	mg/kg dry		<0.130		0-50	N/A	50	U
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MS (1206019979 S)

Source: 710231001

Prepared: 02/28/2025 Analyzed: 03/04/2025

Hexavalent Chromium	1.75	0.324	mg/kg dry	3.24	<0.130	53.6	75-125			
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ILCS (1206019980-ILCS)

Prepared: 02/28/2025 Analyzed: 03/04/2025

Hexavalent Chromium	6.52	0.308	mg/kg	6.20		105	80-120			
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Project: UPRR 1-1

Notes and Definitions

- Ua Sample is Non-Detect.
 - U Result not detected above the detection limit
 - S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
 - S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
 - QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
 - 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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