



**Montrose Environmental**

**December 17, 2025**

**Jordan Goff**

**471 Denver Ave**

**Loveland**

**CO**

**80537**

**Project Name - Chevron - Richardson 64N64W  
10NWSW**

**Project Number - 34536**

Attached are your analytical results for Chevron - Richardson 64N64W 10NWSW received by Origins Laboratory December 08, 2025. This project is associated with Origins project number E5L0188-01.

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.

The laboratory is TNI accredited by the Utah DHHS ELAP under certificate number CO010822024.

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**



Montrose Environmental  
471 Denver Ave  
Loveland CO 80537

Jordan Goff  
Project Number: 34536  
Project: Chevron - Richardson 64N64W  
10NWSW

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01-FS@3'	E5L0188-01	Soil	December 8, 2025 13:47	12/08/2025 17:20
AST02-FS@3'	E5L0188-02	Soil	December 8, 2025 13:51	12/08/2025 17:20
AST03-FS@3'	E5L0188-03	Soil	December 8, 2025 13:52	12/08/2025 17:20

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.*

Kayla Kenyon, Project Manager

Client: Chevron - CO

Address: 2115 117th Avenue, Greeley, CO 80634

Project Manager: Jordan Goff

Project Name: Richardson 64N164W 10NWSM

Project Number: 34536

Telephone Number: Jordan Goff (317) 445-0639

Email Address: NorthernColoradoPM@montrose-city.com  
RBUENPZ7@Chevron.com

Collected By: Ashley Patchhurst

Invoice/Billing Info: Bill to Chevron, Dan Peterson  
2115 117th Avenue, Greeley, CO 80634

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

L=Liquid

SW=Surface Water

GW=Groundwater

WW=Waste Water

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis		Comments
							Full	Table	
1	AST01-FSC@3'	12/8/25	1347	3	S	UNP	✓	115-1	24hr TAT
2	AST02-FSC@3'		1351				✓		24hr TAT
3	AST03-FSC@3'		1352				✓		24 hr TAT
4									
5									
6									
7									
8									
9									
10									

Relinquished By: Ashley Patchhurst Date: 12/08/2025 Time: 15:29 Received By: NB Date: 12/8/25 Time: 15:40

Relinquished By: NB Date: 12/8/25 Time: 17:17 Received By: NLM Date: 12/08/25 Time: 17:20

Turnaround Time

SAME DAY  24 HR

48 Hr  72

Standard

Temp Received: 2.4°C Received On Ice?  Yes  No

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: ESLD188

Client: Monkrose Env.

Client Project ID: Richardson bnd...

Checklist Completed by: NKM / Aw

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

Date/time completed: 12 / 08 / 25

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 2.4 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °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 <sup>(1)</sup> ?	✓			
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact <sup>(1)</sup> ?	✓			
Was adequate sample volume provided <sup>(1)</sup> ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	✓			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	✓			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	✓			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	✓			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			✓	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			✓	
Additional Comments (if any):				

<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.

Aw  
Reviewed by (Project Manager)

12 / 8 / 25  
Date/Time Reviewed



Montrose Environmental  
 471 Denver Ave  
 Loveland CO 80537

Jordan Goff  
 Project Number: 34536  
 Project: Chevron - Richardson 64N64W  
 10NWSW

**AST01-FS@3'**  
**12/8/2025 1:47:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0188-01 (Soil)</b>									
<b>GEL Laboratories, LLC</b>									
<b>Total Metals by 7196A</b>									
Hexavalent Chromium	ND	0.132	0.331	mg/kg dry	1	2912353	12/10/2025	12/16/2025	U
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.416		0.108	mg/L dry	1	5L08078	12/08/2025	12/10/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	17500		268	mg/kg dry	10	5L08083	12/08/2025	12/09/2025	
Residual Range Organics (C28-C36)	10500		1070	"	"	"	"	"	
Surrogate: o-Terphenyl	1720 %			50-150		"	"	"	S-02
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	21.6		0.550	mg/kg dry	250	5L08084	12/08/2025	12/09/2025	
1,3,5-Trimethylbenzene	15.3		0.550	"	"	"	"	"	
Benzene	ND		0.002	"	1	"	"	12/09/2025	Ua
Ethylbenzene	0.538		0.055	"	25	"	"	12/08/2025	
Toluene	0.079		0.055	"	"	"	"	"	
Xylenes, total	16.9		0.055	"	"	"	"	"	
Gasoline Range Hydrocarbons	611		55.0	"	250	"	"	12/09/2025	

Origins Laboratory

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Kayla Kenyon, Project Manager

# ORIGINS LABORATORY

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471 Denver Ave  
Loveland CO 80537

Jordan Goff  
Project Number: 34536  
Project: Chevron - Richardson 64N64W  
10NWSW

**AST01-FS@3'**  
**12/8/2025 1:47:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0188-01 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	100 %			70-130		5L08084	12/08/2025	12/08/2025	
Surrogate: Toluene-d8	99.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	89.9 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.11		0.499	meq/L	10	[CALC]	12/08/2025	12/10/2025	
Magnesium	1.33		0.823	"	"	"	"	"	
Sodium	3.85		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	2.12		0.022	mg/kg dry	10	5L08086	12/08/2025	12/09/2025	
2-Methylnaphthalene	3.87		0.022	"	"	"	"	"	
Acenaphthene	0.396		0.022	"	1	"	"	12/08/2025	
Anthracene	0.049		0.022	"	"	"	"	"	
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	I-01, Ua
Benzo (b) fluoranthene	0.028		0.022	"	"	"	"	"	I-01
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	I-01, Ua
Chrysene	0.126		0.022	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	I-01, Ua
Fluoranthene	0.064		0.022	"	"	"	"	"	

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**AST01-FS@3'**  
**12/8/2025 1:47:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0188-01 (Soil)**  
**Origins Laboratory**

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

Fluorene	0.083		0.022	mg/kg dry	1	5L08086	12/08/2025	12/08/2025	
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	I-01, Ua
Naphthalene	0.755		0.002	"	"	"	"	"	
Pyrene	0.067		0.022	"	"	"	"	"	

Surrogate: Fluorene-d10	84.5 %			60-130		"	"	"	
Surrogate: Anthracene-d10	124 %			60-130		"	"	"	
Surrogate: Pyrene-d10	74.4 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.4 %			60-130		"	"	"	I-01

**Percent Solids**

Total Solids, Percent	92.0			mass percent	1	5L08092	12/08/2025	12/08/2025	
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**pH in Soil by 9045D**

pH	8.04			pH Units	1	5L08079	12/08/2025	12/10/2025	
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**SAR by 20B Saturated Paste**

SAR	2.94		0.0100	SAR	1	5L08077	12/08/2025	12/10/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.808		0.00500	mmhos/cm	1	5L08079	12/08/2025	12/10/2025	
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**AST01-FS@3'**  
**12/8/2025 1:47:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0188-01 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	3.00		0.216	mg/kg dry	10	5L08082	12/08/2025	12/09/2025	
Barium	83.0		60.8	"	"	"	"	"	
Cadmium	ND		0.282	"	"	"	"	"	Ua
Copper	ND		34.1	"	"	"	"	"	Ua
Lead	ND		10.4	"	"	"	"	"	Ua
Nickel	ND		19.3	"	"	"	"	"	Ua
Selenium	0.205		0.183	"	"	"	"	"	
Silver	ND		0.594	"	"	"	"	"	Ua
Zinc	ND		275	"	"	"	"	"	Ua

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 10NWSW

**AST02-FS@3'**  
**12/8/2025 1:51:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0188-02 (Soil)**  
**GEL Laboratories, LLC**

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.145	0.362	mg/kg dry	1	2912353	12/10/2025	12/16/2025	U
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.350		0.110	mg/L dry	1	5L08078	12/08/2025	12/10/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	210		26.8	mg/kg dry	1	5L08083	12/08/2025	12/08/2025	
Residual Range Organics (C28-C36)	193		107	"	"	"	"	"	

Surrogate: o-Terphenyl	82.9 %				50-150	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.013		0.002	mg/kg dry	1	5L08084	12/08/2025	12/09/2025	
1,3,5-Trimethylbenzene	0.010		0.002	"	"	"	"	"	
Benzene	ND		0.002	"	"	"	"	"	Ua
Ethylbenzene	0.003		0.002	"	"	"	"	"	
Toluene	ND		0.002	"	"	"	"	"	Ua
Xylenes, total	0.034		0.002	"	"	"	"	"	
Gasoline Range Hydrocarbons	5.14		0.220	"	"	"	"	"	

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**AST02-FS@3'**  
**12/8/2025 1:51:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0188-02 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	118 %			70-130		5L08084	12/08/2025	12/09/2025	
Surrogate: Toluene-d8	85.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.64		0.499	meq/L	10	[CALC]	12/08/2025	12/10/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.70		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	0.006		0.002	mg/kg dry	1	5L08086	12/08/2025	12/08/2025	
2-Methylnaphthalene	0.010		0.002	"	"	"	"	"	
Acenaphthene	ND		0.022	"	"	"	"	"	Ua
Anthracene	ND		0.022	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	Ua
Chrysene	ND		0.022	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	Ua

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**AST02-FS@3'**  
**12/8/2025 1:51:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5L0188-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Fluoranthene	ND		0.022	mg/kg dry	1	5L08086	12/08/2025	12/08/2025	Ua
Fluorene	ND		0.022	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	Ua
Naphthalene	0.003		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.022	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	94.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	104 %			60-130		"	"	"	
Surrogate: Pyrene-d10	91.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	
<b>Percent Solids</b>									
Total Solids, Percent	90.4			mass percent	1	5L08092	12/08/2025	12/08/2025	
<b>pH in Soil by 9045D</b>									
pH	8.07			pH Units	1	5L08079	12/08/2025	12/10/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	2.54		0.0100	SAR	1	5L08077	12/08/2025	12/10/2025	

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Project Number: 34536  
Project: Chevron - Richardson 64N64W  
10NWSW

**AST02-FS@3'**  
**12/8/2025 1:51:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0188-02 (Soil)**  
**Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.608		0.00500	mmhos/cm	1	5L08079	12/08/2025	12/10/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	2.33		0.213	mg/kg dry	10	5L08082	12/08/2025	12/09/2025	
Barium	84.0		60.1	"	"	"	"	"	
Cadmium	ND		0.279	"	"	"	"	"	Ua
Copper	ND		33.7	"	"	"	"	"	Ua
Lead	ND		10.3	"	"	"	"	"	Ua
Nickel	ND		19.1	"	"	"	"	"	Ua
Selenium	ND		0.180	"	"	"	"	"	Ua
Silver	ND		0.587	"	"	"	"	"	Ua
Zinc	ND		271	"	"	"	"	"	Ua

Origins Laboratory  


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 10NWSW

**AST03-FS@3'**  
**12/8/2025 1:52:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0188-03 (Soil)**  
**GEL Laboratories, LLC**

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.159	0.398	mg/kg dry	1	2912353	12/10/2025	12/16/2025	U
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.205		0.108	mg/L dry	1	5L08078	12/08/2025	12/10/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		27.5	mg/kg dry	1	5L08083	12/08/2025	12/08/2025	Ua
Residual Range Organics (C28-C36)	ND		110	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	74.1 %			50-150		"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	5L08084	12/08/2025	12/08/2025	Ua
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	Ua
Benzene	ND		0.002	"	"	"	"	"	Ua
Ethylbenzene	ND		0.002	"	"	"	"	"	Ua
Toluene	ND		0.002	"	"	"	"	"	Ua
Xylenes, total	ND		0.002	"	"	"	"	"	Ua

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Kayla Kenyon, Project Manager



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 10NWSW

**AST03-FS@3'**  
**12/8/2025 1:52:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0188-03 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.219	mg/kg dry	1	5L08084	12/08/2025	12/08/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	103 %			70-130		"	"	"	
Surrogate: Toluene-d8	93.8 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	90.4 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	3.15		0.499	meq/L	10	[CALC]	12/08/2025	12/10/2025	
Magnesium	1.27		0.823	"	"	"	"	"	
Sodium	1.92		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	5L08086	12/08/2025	12/08/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.022	"	"	"	"	"	Ua
Anthracene	ND		0.022	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	Ua

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Kayla Kenyon, Project Manager



Montrose Environmental  
 471 Denver Ave  
 Loveland CO 80537

Jordan Goff  
 Project Number: 34536  
 Project: Chevron - Richardson 64N64W  
 10NWSW

**AST03-FS@3'**  
**12/8/2025 1:52:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0188-03 (Soil)**  
**Origins Laboratory**

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

Chrysene	ND		0.022	mg/kg dry	1	5L08086	12/08/2025	12/08/2025	Ua
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	Ua
Fluoranthene	ND		0.022	"	"	"	"	"	Ua
Fluorene	ND		0.022	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.022	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	95.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	94.9 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	92.6			mass percent	1	5L08092	12/08/2025	12/08/2025	
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**pH in Soil by 9045D**

pH	7.98			pH Units	1	5L08079	12/08/2025	12/10/2025	
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**SAR by 20B Saturated Paste**

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Montrose Environmental  
471 Denver Ave  
Loveland CO 80537

Jordan Goff  
Project Number: 34536  
Project: Chevron - Richardson 64N64W  
10NWSW

**AST03-FS@3'**  
**12/8/2025 1:52:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5L0188-03 (Soil)**  
**Origins Laboratory**

**SAR by 20B Saturated Paste**

SAR	1.29		0.0100	SAR	1	5L08077	12/08/2025	12/10/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.754		0.00500	mmhos/cm	1	5L08079	12/08/2025	12/10/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	2.48		0.206	mg/kg dry	10	5L08082	12/08/2025	12/09/2025	
Barium	67.9		58.1	"	"	"	"	"	
Cadmium	ND		0.269	"	"	"	"	"	Ua
Copper	ND		32.6	"	"	"	"	"	Ua
Lead	ND		9.92	"	"	"	"	"	Ua
Nickel	ND		18.4	"	"	"	"	"	Ua
Selenium	ND		0.174	"	"	"	"	"	Ua
Silver	ND		0.567	"	"	"	"	"	Ua
Zinc	ND		262	"	"	"	"	"	Ua

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\*\*\* DEFAULT GENERAL METHOD \*\*\* - 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 5L08092 - % Solids

Duplicate (5L08092-DUP1)

Source: E5L0179-01

Prepared: 12/08/2025 Analyzed: 12/08/2025

Total Solids, Percent	94.1		mass percent		94.5			0.405	20	
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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 5L08077 - Saturated Paste Metals**

**Blank (5L08077-BLK1)**

Prepared: 12/08/2025 Analyzed: 12/10/2025

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

**Duplicate (5L08077-DUP1)**

Source: E5L0170-01

Prepared: 12/08/2025 Analyzed: 12/10/2025

SAR	ND	0.0100	SAR	36.6				200		Ua
Calcium PPM	69.5	10.0	mg/L	46.8				38.9	50	
Magnesium PPM	7.39	10.0	"	4.84				41.7	50	Ua
Sodium PPM	1180	10.0	"	983				18.5	50	

**Batch 5L08078 - DTPA Sorbitol Preparation**

**Blank (5L08078-BLK1)**

Prepared: 12/08/2025 Analyzed: 12/10/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							Ua
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**Duplicate (5L08078-DUP1)**

Source: E5L0183-01

Prepared: 12/08/2025 Analyzed: 12/10/2025

(DTPA Sorbitol) Boron	ND	0.108	mg/L dry		ND				50	Ua
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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 5L08086 - EPA 3580**

**Blank (5L08086-BLK1)**

Prepared: 12/08/2025 Analyzed: 12/08/2025

1-Methylnaphthalene	ND	0.002	mg/kg wet							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		93.2	60-130			
Surrogate: Pyrene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

**LCS (5L08086-BS1)**

Prepared: 12/08/2025 Analyzed: 12/08/2025

1-Methylnaphthalene	0.209	0.002	mg/kg wet	0.197		106	70-130			
2-Methylnaphthalene	0.209	0.002	"	0.197		106	70-130			
Acenaphthene	0.207	0.020	"	0.197		105	70-130			
Anthracene	0.193	0.020	"	0.197		98.4	70-130			
Benzo (a) anthracene	0.202	0.005	"	0.197		103	70-130			
Benzo (a) pyrene	0.211	0.020	"	0.197		107	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 5L08086 - EPA 3580**

**LCS (5L08086-BS1)**

Prepared: 12/08/2025 Analyzed: 12/08/2025

Benzo (b) fluoranthene	0.218	0.020	mg/kg wet	0.197		111	70-130			
Benzo (k) fluoranthene	0.202	0.020	"	0.197		102	70-130			
Chrysene	0.197	0.020	"	0.197		100	70-130			
Dibenz (a,h) anthracene	0.213	0.020	"	0.197		108	70-130			
Fluoranthene	0.197	0.020	"	0.197		100	70-130			
Fluorene	0.208	0.020	"	0.197		106	70-130			
Indeno (1,2,3-cd) pyrene	0.215	0.020	"	0.197		109	70-130			
Naphthalene	0.208	0.002	"	0.197		106	70-130			
Pyrene	0.193	0.020	"	0.197		98.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.4	60-130			
Surrogate: Pyrene-d10	190		"	200		95.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

**Matrix Spike (5L08086-MS1)**

**Source: E5L0179-01**

Prepared: 12/08/2025 Analyzed: 12/08/2025

1-Methylnaphthalene	0.217	0.002	mg/kg dry	0.211	ND	103	70-130			
2-Methylnaphthalene	0.218	0.002	"	0.211	ND	104	70-130			
Acenaphthene	0.215	0.021	"	0.211	ND	102	70-130			
Anthracene	0.198	0.021	"	0.211	ND	93.8	70-130			
Benzo (a) anthracene	0.209	0.005	"	0.211	0.001	98.4	70-130			
Benzo (a) pyrene	0.244	0.021	"	0.211	0.004	114	70-130			
Benzo (b) fluoranthene	0.245	0.021	"	0.211	0.003	115	70-130			
Benzo (k) fluoranthene	0.257	0.021	"	0.211	0.003	121	70-130			
Chrysene	0.203	0.021	"	0.211	0.002	95.6	70-130			
Dibenz (a,h) anthracene	0.228	0.021	"	0.211	0.006	105	70-130			
Fluoranthene	0.202	0.021	"	0.211	0.0006	95.7	70-130			
Fluorene	0.216	0.021	"	0.211	0.001	102	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 5L08086 - EPA 3580**

<b>Matrix Spike (5L08086-MS1)</b>		<b>Source: E5L0179-01</b>			<b>Prepared: 12/08/2025 Analyzed: 12/08/2025</b>					
Indeno (1,2,3-cd) pyrene	0.224	0.021	mg/kg dry	0.211	0.007	103	70-130			
Naphthalene	0.219	0.002	"	0.211	ND	104	70-130			
Pyrene	0.200	0.021	"	0.211	ND	94.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	190		"	200		96.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

<b>Matrix Spike Dup (5L08086-MSD1)</b>		<b>Source: E5L0179-01</b>			<b>Prepared: 12/08/2025 Analyzed: 12/08/2025</b>					
1-Methylnaphthalene	0.225	0.002	mg/kg dry	0.213	ND	106	70-130	3.50	20	
2-Methylnaphthalene	0.226	0.002	"	0.213	ND	106	70-130	3.47	20	
Acenaphthene	0.222	0.021	"	0.213	ND	104	70-130	3.16	20	
Anthracene	0.204	0.021	"	0.213	ND	95.7	70-130	3.18	20	
Benzo (a) anthracene	0.215	0.005	"	0.213	0.001	100	70-130	3.08	20	
Benzo (a) pyrene	0.235	0.021	"	0.213	0.004	108	70-130	3.61	20	
Benzo (b) fluoranthene	0.248	0.021	"	0.213	0.003	115	70-130	1.10	20	
Benzo (k) fluoranthene	0.246	0.021	"	0.213	0.003	114	70-130	4.44	20	
Chrysene	0.199	0.021	"	0.213	0.002	92.5	70-130	2.05	20	
Dibenz (a,h) anthracene	0.236	0.021	"	0.213	0.006	108	70-130	3.58	20	
Fluoranthene	0.210	0.021	"	0.213	0.0006	98.1	70-130	3.62	20	
Fluorene	0.222	0.021	"	0.213	0.001	104	70-130	2.79	20	
Indeno (1,2,3-cd) pyrene	0.240	0.021	"	0.213	0.007	109	70-130	6.86	20	
Naphthalene	0.224	0.002	"	0.213	ND	105	70-130	2.40	20	
Pyrene	0.206	0.021	"	0.213	ND	96.7	70-130	3.15	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.8	60-130			

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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 5L08086 - EPA 3580

Matrix Spike Dup (5L08086-MSD1)

Source: E5L0179-01

Prepared: 12/08/2025 Analyzed: 12/08/2025

Surrogate: Benzo (a) pyrene-d12	210		ug/kg	200	103		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 5L08083 - EPA 3550B**

**Blank (5L08083-BLK1)**

Prepared: 12/08/2025 Analyzed: 12/08/2025

Diesel (C10-C28)	ND	24.9	mg/kg wet							Ua
Residual Range Organics (C28-C36)	ND	99.6	"							Ua

Surrogate: o-Terphenyl

18	"	24.8	71.8	50-150
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**LCS (5L08083-BS1)**

Prepared: 12/08/2025 Analyzed: 12/08/2025

Diesel (C10-C28)	856	50.2	mg/kg wet	1000	85.2	70-130
Residual Range Organics (C28-C36)	916	201	"	1000	91.3	70-130

Surrogate: o-Terphenyl

43	"	49.9	86.8	50-150
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**Matrix Spike (5L08083-MS1)**

**Source: E5L0179-01**

Prepared: 12/08/2025 Analyzed: 12/08/2025

Diesel (C10-C28)	911	53.3	mg/kg dry	1070	ND	85.4	70-130
Residual Range Organics (C28-C36)	967	213	"	1070	ND	90.7	70-130

Surrogate: o-Terphenyl

48	"	53.1	89.7	50-150
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**Matrix Spike Dup (5L08083-MSD1)**

**Source: E5L0179-01**

Prepared: 12/08/2025 Analyzed: 12/08/2025

Diesel (C10-C28)	930	53.7	mg/kg dry	1070	ND	86.6	70-130	2.06	35
Residual Range Organics (C28-C36)	996	215	"	1070	ND	92.8	70-130	2.90	35

Surrogate: o-Terphenyl

45	"	53.4	84.4	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 5L08082 - EPA 3050B**

**Blank (5L08082-BLK1)**

Prepared: 12/08/2025 Analyzed: 12/09/2025

Arsenic	ND	0.218	mg/kg wet							Ua
Barium	ND	61.5	"							Ua
Cadmium	ND	0.285	"							Ua
Copper	ND	34.5	"							Ua
Lead	ND	10.5	"							Ua
Nickel	ND	19.5	"							Ua
Selenium	ND	0.184	"							Ua
Silver	ND	0.600	"							Ua
Zinc	ND	278	"							Ua

**LCS (5L08082-BS1)**

Prepared: 12/08/2025 Analyzed: 12/09/2025

Arsenic	5.07	0.218	mg/kg wet	5.00		101	80-120			
Barium	493	61.5	"	500		98.6	80-120			
Cadmium	4.91	0.285	"	5.00		98.3	80-120			
Copper	51.0	34.5	"	50.0		102	80-120			
Lead	4.79	10.5	"	5.00		95.8	80-120			Ua
Nickel	4.85	19.5	"	5.00		97.0	80-120			Ua
Selenium	4.91	0.184	"	5.00		98.2	80-120			
Silver	5.14	0.600	"	5.00		103	80-120			
Zinc	48.9	278	"	50.0		97.9	80-120			Ua

**Matrix Spike (5L08082-MS1)**

**Source: E5L0190-01**

Prepared: 12/08/2025 Analyzed: 12/09/2025

Arsenic	11.5	0.213	mg/kg dry	4.87	6.89	95.1	75-125			
Barium	679	60.0	"	487	181	102	75-125			
Cadmium	5.22	0.278	"	4.87	0.170	104	75-125			
Copper	65.6	33.6	"	48.7	14.9	104	75-125			
Lead	16.7	10.2	"	4.87	13.0	75.1	75-125			

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 10NWSW

**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 5L08082 - EPA 3050B**

**Matrix Spike (5L08082-MS1)**

**Source: E5L0190-01**

Prepared: 12/08/2025 Analyzed: 12/09/2025

Nickel	20.6	19.0	mg/kg dry	4.87	17.2	69.4	75-125			QM-07
Selenium	5.14	0.180	"	4.87	0.256	100	75-125			
Silver	5.36	0.585	"	4.87	0.0443	109	75-125			
Zinc	100	271	"	48.7	54.9	92.9	75-125			Ua

**Matrix Spike Dup (5L08082-MSD1)**

**Source: E5L0190-01**

Prepared: 12/08/2025 Analyzed: 12/09/2025

Arsenic	11.5	0.207	mg/kg dry	4.74	6.89	96.7	75-125	0.380	20	
Barium	747	58.4	"	474	181	119	75-125	9.45	20	
Cadmium	5.53	0.270	"	4.74	0.170	113	75-125	5.79	20	
Copper	67.7	32.7	"	47.4	14.9	111	75-125	3.19	20	
Lead	16.9	9.96	"	4.74	13.0	80.4	75-125	0.938	20	
Nickel	22.0	18.5	"	4.74	17.2	99.7	75-125	6.34	20	
Selenium	5.28	0.175	"	4.74	0.256	106	75-125	2.57	20	
Silver	5.54	0.569	"	4.74	0.0443	116	75-125	3.26	20	
Zinc	104	263	"	47.4	54.9	104	75-125	4.20	20	Ua

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Jordan Goff  
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 Project: Chevron - Richardson 64N64W  
 10NWSW

**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 5L08079 - Saturated Paste pH/EC**

**Blank (5L08079-BLK1)**

Prepared: 12/08/2025 Analyzed: 12/10/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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**Duplicate (5L08079-DUP1)**

**Source: E5L0170-01**

Prepared: 12/08/2025 Analyzed: 12/10/2025

Specific Conductance (EC)	6.50	0.00500	mmhos/cm		5.37			19.1	25	
pH	7.96		pH Units		8.11			1.87	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 5L08084 - EPA 5030 (soil)**

Prepared: 12/08/2025 Analyzed: 12/08/2025

**Blank (5L08084-BLK1)**

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

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.1	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.4	70-130			

**LCS (5L08084-BS1)**

Prepared: 12/08/2025 Analyzed: 12/08/2025

1,2,4-Trimethylbenzene	0.090	0.002	mg/kg wet	0.100		90.0	70-130			
1,3,5-Trimethylbenzene	0.091	0.002	"	0.100		91.2	70-130			
Benzene	0.083	0.002	"	0.100		82.7	70-130			
Ethylbenzene	0.087	0.002	"	0.100		86.5	70-130			
Toluene	0.088	0.002	"	0.100		88.2	70-130			
o-Xylene	0.086	0.002	"	0.100		85.8	70-130			
m,p-Xylene	0.183	0.004	"	0.200		91.7	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	70-130			

**Matrix Spike (5L08084-MS1)**

Source: E5L0187-01

Prepared: 12/08/2025 Analyzed: 12/08/2025

1,2,4-Trimethylbenzene	0.102	0.002	mg/kg dry	0.125	ND	82.0	70-130			
1,3,5-Trimethylbenzene	0.105	0.002	"	0.125	ND	84.1	70-130			
Benzene	0.107	0.002	"	0.125	ND	85.4	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 5L08084 - EPA 5030 (soil)**

<b>Matrix Spike (5L08084-MS1)</b>		<b>Source: E5L0187-01</b>			<b>Prepared: 12/08/2025 Analyzed: 12/08/2025</b>					
Ethylbenzene	0.103	0.002	mg/kg dry	0.125	ND	82.3	70-130			
Toluene	0.104	0.002	"	0.125	ND	83.5	70-130			
o-Xylene	0.102	0.002	"	0.125	ND	81.7	70-130			
m,p-Xylene	0.215	0.005	"	0.250	ND	86.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.156		106	70-130			
Surrogate: Toluene-d8	0.15		"	0.156		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.156		98.1	70-130			

<b>Matrix Spike Dup (5L08084-MSD1)</b>		<b>Source: E5L0187-01</b>			<b>Prepared: 12/08/2025 Analyzed: 12/08/2025</b>					
1,2,4-Trimethylbenzene	0.097	0.003	mg/kg dry	0.125	ND	77.7	70-130	5.01	20	
1,3,5-Trimethylbenzene	0.098	0.003	"	0.125	ND	78.0	70-130	7.15	20	
Benzene	0.100	0.003	"	0.125	ND	79.4	70-130	6.86	20	
Ethylbenzene	0.096	0.003	"	0.125	ND	76.5	70-130	6.93	20	
Toluene	0.103	0.003	"	0.125	ND	81.8	70-130	1.61	20	
o-Xylene	0.095	0.003	"	0.125	ND	75.8	70-130	7.07	20	
m,p-Xylene	0.201	0.005	"	0.251	ND	80.4	70-130	6.53	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.157		101	70-130			
Surrogate: Toluene-d8	0.15		"	0.157		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.157		93.1	70-130			

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**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2912353 - SW846 3060A</b>										
<b>BLANK (1206326736-BLK)</b>										
					Prepared: 12/10/2025 Analyzed: 12/16/2025					
Hexavalent Chromium	ND	0.329	mg/kg							U
<b>LCS (1206326737-BKS)</b>										
					Prepared: 12/10/2025 Analyzed: 12/16/2025					
Hexavalent Chromium	2.80	0.291	mg/kg	2.91		96.3	80-120			
<b>DUP (1206326738 D)</b>										
					Source: 756018001					
					Prepared: 12/10/2025 Analyzed: 12/16/2025					
Hexavalent Chromium	ND	0.301	mg/kg dry		<0.120		0-50	N/A	50	U
<b>MS (1206326739 S)</b>										
					Source: 756018001					
					Prepared: 12/10/2025 Analyzed: 12/16/2025					
Hexavalent Chromium	2.86	0.301	mg/kg dry	3.01	<0.120	95.2	75-125			
<b>DUP (1206326740 D)</b>										
					Source: 756026002					
					Prepared: 12/10/2025 Analyzed: 12/16/2025					
Hexavalent Chromium	ND	0.304	mg/kg dry		<0.122		0-50	N/A	50	U
<b>MS (1206326741 S)</b>										
					Source: 756026002					
					Prepared: 12/10/2025 Analyzed: 12/16/2025					
Hexavalent Chromium	2.76	0.304	mg/kg dry	3.04	<0.122	90	75-125			
<b>ILCS (1206326742-ILCS)</b>										
					Prepared: 12/10/2025 Analyzed: 12/16/2025					
Hexavalent Chromium	5.99	0.309	mg/kg	6.18		97	80-120			

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### Notes and Definitions

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- I-01 Due to matrix interference, the sample cannot be accurately quantified. The reported result is qualitative.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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