



**Montrose Environmental**

**Scott Williamson**

**471 Denver Ave**

**Loveland**

**CO**

**80537**

**September 29, 2025**

**Project Name - Chevron - Gutterson 31T-401**

**Project Number - REM:42335**

Attached are your analytical results for Chevron - Gutterson 31T-401 received by Origins Laboratory September 17, 2025. This project is associated with Origins project number E5I0404-01.

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



Montrose Environmental  
471 Denver Ave  
Loveland CO 80537

Scott Williamson  
Project Number: REM:42335  
Project: Chevron - Gutterson 31T-401

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLR01@5'	E510404-01	Soil	September 17, 2025 12:28	09/17/2025 17:11
SEP01-FLR@3'	E510404-02	Soil	September 17, 2025 12:01	09/17/2025 17:11
BKG01@3'	E510404-03	Soil	September 17, 2025 12:48	09/17/2025 17:11
BKG01@5'	E510404-04	Soil	September 17, 2025 12:54	09/17/2025 17:11
BKG02@3'	E510404-05	Soil	September 17, 2025 13:06	09/17/2025 17:11
BKG02@5'	E510404-06	Soil	September 17, 2025 13:17	09/17/2025 17:11
BKG03@3'	E510404-07	Soil	September 17, 2025 13:35	09/17/2025 17:11
BKG03@5'	E510404-08	Soil	September 17, 2025 13:38	09/17/2025 17:11

Origins Laboratory

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# ORIGINS

# E5TD404

Client: **Chevron- Dan Peterson**

Project Manager: **Scott Williamson**

Address: **2115 117th Avenue Greeley, CO 80631**

Project Name: **W- Welter**

Project Number: **REM : 42335**

Collected By: **Montrose Environmental Solutions**

Telephone Number: **888.424.2770**

Invoice/Billing Info: **Chevron - Dan Peterson**

Email Address: **emil@chevron.com** | **emil@montrose-env.com** | **emil@montrose-ems.com**

Key: **L=Liquid**

**W= Welter**

**GW= Groundwater**

**SW= Surface Water**

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
FLR 0105'	9/17/25	1228	3	S	UNP		
SEP01-FLR03'							
BKG0103'		1201					
BKG0103'		1248					
BKG0105'		1254					
BKG0203'		1306					
BKG0205'		1317					
BKG0303'		1335					
BKG0305'		1338					

Temp Received- **4.9°C** Received On Ice?  Yes  No

Turnaround Time  
 SAME DAY  24 HR  
 48 HR  72  
 Standard

Relinquished By: **Kevin Sullivan** Date: **09/17/25** Time: **15:00**  
 Received By: **Scott Williamson** Date: **09/17/25** Time: **15:27**  
 Relinquished By: **Kevin Sullivan** Date: **09/17/25** Time: **17:11**  
 Received By: **Kevin Sullivan** Date: **09/17/25** Time: **17:11**

Sample Receipt Checklist

Origins Work Order: ES10404

Client: Montrose

Client Project ID: Gusterson 3IT

Checklist Completed by: smc/gmc

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

Date/time completed: 9/18/25

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.4 °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> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>if yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any): <u>Water intrusion in sample 7B</u>				

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

Reviewed by (Project Manager)

09/19/25  
Date/Time Reviewed



Montrose Environmental  
 471 Denver Ave  
 Loveland CO 80537

Scott Williamson  
 Project Number: REM:42335  
 Project: Chevron - Gutterson 31T-401

FLR01@5'

9/17/2025 12:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510404-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	ND		0.115	mg/L dry	1	B511812	09/18/2025	09/19/2025	U
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		28.7	mg/kg dry	1	B511808	09/18/2025	09/19/2025	U
Residual Range Organics (C28-C36)	ND		115	"	"	"	"	"	U
Surrogate: o-Terphenyl	71.8 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B511834	09/18/2025	09/21/2025	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
Gasoline Range Hydrocarbons	ND		0.230	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	112 %			70-130		"	"	"	
Surrogate: Toluene-d8	94.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	

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 Project: Chevron - Gutterson 31T-401

FLR01@5'  
 9/17/2025 12:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510404-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	1.51		0.499	meq/L	10	[CALC]	09/18/2025	09/19/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
<b>PAH by EPA 8270E extracted via 3580A</b>									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B51918	09/19/2025	09/19/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
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
Fluoranthene	ND		0.023	"	"	"	"	"	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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FLR01@5'

9/17/2025 12:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510404-01 (Soil)**  
**Origins Laboratory**

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

Pyrene	ND		0.023	mg/kg dry	1	B511918	09/19/2025	09/19/2025	U
Surrogate: Fluorene-d10	102 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.44			pH Units	1	B511820	09/18/2025	09/19/2025	
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**SAR by 20B Saturated Paste**

SAR	0.0675		0.0100	SAR	1	B511816	09/18/2025	09/19/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.202		0.00500	mmhos/cm	1	B511820	09/18/2025	09/19/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	2.91		0.212	mg/kg dry	10	B511868	09/18/2025	09/22/2025	
Barium	322		59.9	"	"	"	"	"	
Cadmium	ND		0.278	"	"	"	"	"	U
Copper	36.2		33.6	"	"	"	"	"	

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**FLR01@5'**

**9/17/2025 12:28:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510404-01 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Lead	ND		10.2	mg/kg dry	10	B511868	09/18/2025	09/22/2025	U
Nickel	ND		19.0	"	"	"	"	"	U
Selenium	ND		0.180	"	"	"	"	"	U
Silver	ND		0.585	"	"	"	"	"	U
Zinc	ND		270	"	"	"	"	"	U

**Waypoint Analytical, LLC.**

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.284	0.582	mg/Kg - dry	1	L840545	09/17/2025	09/22/2025	
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**SEP01-FLR@3'**

**9/17/2025 12:01:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510404-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	ND		0.110	mg/L dry	1	B511812	09/18/2025	09/19/2025	U
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		27.5	mg/kg dry	1	B511808	09/18/2025	09/19/2025	U
Residual Range Organics (C28-C36)	ND		110	"	"	"	"	"	U
Surrogate: o-Terphenyl	72.7 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B511834	09/18/2025	09/21/2025	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
Gasoline Range Hydrocarbons	ND		0.220	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	114 %			70-130		"	"	"	
Surrogate: Toluene-d8	93.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

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SEP01-FLR@3'

9/17/2025 12:01:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E510404-02 (Soil)  
 Origins Laboratory

**Metals by Saturated Paste by EPA 6010**

Calcium	1.08		0.499	meq/L	10	[CALC]	09/18/2025	09/19/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B51918	09/19/2025	09/19/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U
Chrysene	ND		0.022	"	"	"	"	"	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

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**SEP01-FLR@3'**

**9/17/2025 12:01:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510404-02 (Soil)  
 Origins Laboratory**

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

Pyrene	ND		0.022	mg/kg dry	1	B511918	09/19/2025	09/19/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.37			pH Units	1	B511820	09/18/2025	09/19/2025	
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**SAR by 20B Saturated Paste**

SAR	0.0242		0.0100	SAR	1	B511816	09/18/2025	09/19/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.170		0.00500	mmhos/cm	1	B511820	09/18/2025	09/19/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	4.89		0.218	mg/kg dry	10	B511868	09/18/2025	09/22/2025	
Barium	75.2		61.5	"	"	"	"	"	
Cadmium	ND		0.285	"	"	"	"	"	U
Copper	ND		34.5	"	"	"	"	"	U

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**SEP01-FLR@3'**

**9/17/2025 12:01:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510404-02 (Soil)**

**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Lead	ND		10.5	mg/kg dry	10	B511868	09/18/2025	09/22/2025	U
Nickel	ND		19.5	"	"	"	"	"	U
Selenium	ND		0.185	"	"	"	"	"	U
Silver	ND		0.600	"	"	"	"	"	U
Zinc	ND		278	"	"	"	"	"	U

**Waypoint Analytical, LLC.**

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.278	0.57	mg/Kg - dry	1	L841641	09/17/2025	09/26/2025	
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**BKG01@3'**

**9/17/2025 12:48:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510404-03 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.126		0.103	mg/L dry	1	B51812	09/18/2025	09/19/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	ND		0.499	meq/L	10	[CALC]	09/18/2025	09/19/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.01		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.45			pH Units	1	B51820	09/18/2025	09/19/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	1.91		0.0100	SAR	1	B51816	09/18/2025	09/19/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.191		0.00500	mmhos/cm	1	B51820	09/18/2025	09/19/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.44		0.202	mg/kg dry	10	B51868	09/18/2025	09/22/2025	
Barium	ND		57.1	"	"	"	"	"	U
Cadmium	ND		0.265	"	"	"	"	"	U

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**BKG01@3'**

**9/17/2025 12:48:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510404-03 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Copper	ND		32.0	mg/kg dry	10	B511868	09/18/2025	09/22/2025	U
Lead	ND		9.75	"	"	"	"	"	U
Nickel	ND		18.1	"	"	"	"	"	U
Selenium	ND		0.171	"	"	"	"	"	U
Silver	ND		0.557	"	"	"	"	"	U
Zinc	ND		258	"	"	"	"	"	U

**Waypoint Analytical, LLC.**

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.308	0.631	mg/Kg - dry	1	L841641	09/17/2025	09/26/2025	
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# ORIGINS LABORATORY

Montrose Environmental  
471 Denver Ave  
Loveland CO 80537

Scott Williamson  
Project Number: REM:42335  
Project: Chevron - Gutterson 31T-401

**BKG01@5'**

**9/17/2025 12:54:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510404-04 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	ND		0.106	mg/L dry	1	B511812	09/18/2025	09/19/2025	U
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	0.649		0.499	meq/L	10	[CALC]	09/18/2025	09/19/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.27			pH Units	1	B511820	09/18/2025	09/19/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.431		0.0100	SAR	1	B511816	09/18/2025	09/19/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.136		0.00500	mmhos/cm	1	B511820	09/18/2025	09/19/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.34		0.211	mg/kg dry	10	B511868	09/18/2025	09/22/2025	
Barium	69.5		59.5	"	"	"	"	"	
Cadmium	ND		0.276	"	"	"	"	"	U

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Scott Williamson  
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 Project: Chevron - Gutterson 31T-401

**BKG01@5'**

**9/17/2025 12:54:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510404-04 (Soil)  
 Origins Laboratory**

**Table 915 metals by EPA 6020B**

Copper	ND		33.4	mg/kg dry	10	B511868	09/18/2025	09/22/2025	U
Lead	ND		10.2	"	"	"	"	"	U
Nickel	ND		18.9	"	"	"	"	"	U
Selenium	ND		0.179	"	"	"	"	"	U
Silver	ND		0.581	"	"	"	"	"	U
Zinc	ND		269	"	"	"	"	"	U

**Waypoint Analytical, LLC.**

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.269	0.552	mg/Kg - dry	1	L840640	09/17/2025	09/22/2025	
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**BKG02@3'**

**9/17/2025 1:06:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510404-05 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	ND		0.104	mg/L dry	1	B511813	09/18/2025	09/19/2025	U
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	0.980		0.499	meq/L	10	[CALC]	09/18/2025	09/19/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.60		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.30			pH Units	1	B511821	09/18/2025	09/19/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	1.80		0.0100	SAR	1	B511817	09/18/2025	09/19/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.381		0.00500	mmhos/cm	1	B511821	09/18/2025	09/19/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.44		0.204	mg/kg dry	10	B511868	09/18/2025	09/22/2025	
Barium	ND		57.7	"	"	"	"	"	U
Cadmium	ND		0.267	"	"	"	"	"	U

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**BKG02@3'**

**9/17/2025 1:06:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510404-05 (Soil)  
 Origins Laboratory**

**Table 915 metals by EPA 6020B**

Copper	ND		32.3	mg/kg dry	10	B511868	09/18/2025	09/22/2025	U
Lead	ND		9.84	"	"	"	"	"	U
Nickel	ND		18.3	"	"	"	"	"	U
Selenium	ND		0.173	"	"	"	"	"	U
Silver	ND		0.562	"	"	"	"	"	U
Zinc	ND		260	"	"	"	"	"	U

**Waypoint Analytical, LLC.**

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg - dry	1	L841641	09/17/2025	09/26/2025	
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 Project: Chevron - Gutterson 31T-401

**BKG02@5'**

**9/17/2025 1:17:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510404-06 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	ND		0.106	mg/L dry	1	B511813	09/18/2025	09/19/2025	U
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	1.04		0.499	meq/L	10	[CALC]	09/18/2025	09/19/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	7.81			pH Units	1	B511821	09/18/2025	09/19/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.478		0.0100	SAR	1	B511817	09/18/2025	09/19/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.263		0.00500	mmhos/cm	1	B511821	09/18/2025	09/19/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.20		0.210	mg/kg dry	10	B511868	09/18/2025	09/22/2025	
Barium	63.2		59.2	"	"	"	"	"	
Cadmium	ND		0.274	"	"	"	"	"	U

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**BKG0205'**

**9/17/2025 1:17:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510404-06 (Soil)  
 Origins Laboratory**

**Table 915 metals by EPA 6020B**

Copper	ND		33.2	mg/kg dry	10	B511868	09/18/2025	09/22/2025	U
Lead	ND		10.1	"	"	"	"	"	U
Nickel	ND		18.8	"	"	"	"	"	U
Selenium	ND		0.178	"	"	"	"	"	U
Silver	ND		0.578	"	"	"	"	"	U
Zinc	ND		267	"	"	"	"	"	U

**Waypoint Analytical, LLC.**

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.263	0.54	mg/Kg - dry	1	L841641	09/17/2025	09/26/2025	
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 Project: Chevron - Gutterson 31T-401

**BKG03@3'**

**9/17/2025 1:35:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510404-07 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	ND		0.105	mg/L dry	1	B511813	09/18/2025	09/19/2025	U
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	ND		0.499	meq/L	10	[CALC]	09/18/2025	09/19/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.01		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	7.47			pH Units	1	B511821	09/18/2025	09/19/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	2.45		0.0100	SAR	1	B511817	09/18/2025	09/19/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.164		0.00500	mmhos/cm	1	B511821	09/18/2025	09/19/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.92		0.203	mg/kg dry	10	B511868	09/18/2025	09/22/2025	
Barium	ND		57.2	"	"	"	"	"	U
Cadmium	ND		0.265	"	"	"	"	"	U

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**BKG03@3'**

**9/17/2025 1:35:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510404-07 (Soil)  
 Origins Laboratory**

**Table 915 metals by EPA 6020B**

Copper	ND		32.1	mg/kg dry	10	B511868	09/18/2025	09/22/2025	U
Lead	ND		9.77	"	"	"	"	"	U
Nickel	ND		18.1	"	"	"	"	"	U
Selenium	ND		0.172	"	"	"	"	"	U
Silver	ND		0.558	"	"	"	"	"	U
Zinc	ND		258	"	"	"	"	"	U

**Waypoint Analytical, LLC.**

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.279	0.572	mg/Kg - dry	1	L841641	09/17/2025	09/26/2025	
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# ORIGINS LABORATORY

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Project: Chevron - Gutterson 31T-401

**BKG03@5'**

**9/17/2025 1:38:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510404-08 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	ND		0.107	mg/L dry	1	B511813	09/18/2025	09/19/2025	U
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	0.686		0.499	meq/L	10	[CALC]	09/18/2025	09/19/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	7.41			pH Units	1	B511821	09/18/2025	09/19/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.459		0.0100	SAR	1	B511817	09/18/2025	09/19/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.189		0.00500	mmhos/cm	1	B511821	09/18/2025	09/19/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.07		0.209	mg/kg dry	10	B511868	09/18/2025	09/22/2025	
Barium	72.5		58.9	"	"	"	"	"	
Cadmium	ND		0.273	"	"	"	"	"	U

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 Project: Chevron - Gutterson 31T-401

**BKG03@5'**

**9/17/2025 1:38:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510404-08 (Soil)  
 Origins Laboratory**

**Table 915 metals by EPA 6020B**

Copper	ND		33.1	mg/kg dry	10	B511868	09/18/2025	09/22/2025	U
Lead	ND		10.1	"	"	"	"	"	U
Nickel	ND		18.7	"	"	"	"	"	U
Selenium	ND		0.177	"	"	"	"	"	U
Silver	ND		0.575	"	"	"	"	"	U
Zinc	ND		266	"	"	"	"	"	U

**Waypoint Analytical, LLC.**

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.289	0.593	mg/Kg - dry	1	L841641	09/17/2025	09/26/2025	
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 Project: Chevron - Gutterson 31T-401

\*\*\* DEFAULT GENERAL METHOD \*\*\* - 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 B512309 - % Solids

Duplicate (B512309-DUP1)

Source: E510401-01

Prepared: 09/23/2025 Analyzed: 09/23/2025

Total Solids, Percent	88.4		mass percent		88.7			0.325	20	
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Duplicate (B512309-DUP2)

Source: E510401-02

Prepared: 09/23/2025 Analyzed: 09/23/2025

Total Solids, Percent	91.4		mass percent		91.5			0.0867	20	
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 Project: Chevron - Gutterson 31T-401

**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 B511812 - DTPA Sorbitol Preparation**

**Blank (B511812-BLK1)**

Prepared: 09/18/2025 Analyzed: 09/19/2025

(DTPA Sorbitol) Boron ND 0.100 mg/L wet U

**Duplicate (B511812-DUP1)**

Source: E5I0400-01

Prepared: 09/18/2025 Analyzed: 09/19/2025

(DTPA Sorbitol) Boron 0.0291 0.109 mg/L dry 0.0341 15.8 50 U

**Batch B511813 - DTPA Sorbitol Preparation**

**Blank (B511813-BLK1)**

Prepared: 09/18/2025 Analyzed: 09/19/2025

(DTPA Sorbitol) Boron ND 0.100 mg/L wet U

**Duplicate (B511813-DUP1)**

Source: E5I0404-05

Prepared: 09/18/2025 Analyzed: 09/19/2025

(DTPA Sorbitol) Boron 0.0830 0.104 mg/L dry 0.0866 4.22 50 U

**Batch B511816 - Saturated Paste Metals**

**Blank (B511816-BLK1)**

Prepared: 09/18/2025 Analyzed: 09/19/2025

SAR ND 0.0100 SAR U

Calcium PPM ND 10.0 mg/L U

Magnesium PPM ND 10.0 " U

Sodium PPM ND 10.0 " U

**Duplicate (B511816-DUP1)**

Source: E5I0400-01

Prepared: 09/18/2025 Analyzed: 09/19/2025

SAR ND 0.0100 SAR 0.0665 200 U

Calcium PPM 9.44 10.0 mg/L 15.9 51.2 50 QR-DUP

Magnesium PPM 2.19 10.0 " 3.62 49.2 50 U

Sodium PPM 1.10 10.0 " 1.13 2.69 50 U

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 Project: Chevron - Gutterson 31T-401

**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 B511817 - Saturated Paste Metals**

**Blank (B511817-BLK1)**

Prepared: 09/18/2025 Analyzed: 09/19/2025

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

**Duplicate (B511817-DUP1)**

**Source: E510404-05**

Prepared: 09/18/2025 Analyzed: 09/19/2025

SAR	ND	0.0100	SAR	1.80				200		U
Calcium PPM	18.0	10.0	mg/L	19.6				8.71	50	
Magnesium PPM	6.37	10.0	"	7.27				13.2	50	U
Sodium PPM	31.7	10.0	"	36.8				14.8	50	

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 Project: Chevron - Gutterson 31T-401

**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 B511918 - EPA 3580**

**Blank (B511918-BLK1)**

Prepared: 09/19/2025 Analyzed: 09/19/2025

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	102	60-130
Surrogate: Anthracene-d10	180		"	200	90.9	60-130
Surrogate: Pyrene-d10	200		"	200	99.2	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	107	60-130

**LCS (B511918-BS1)**

Prepared: 09/19/2025 Analyzed: 09/19/2025

1-Methylnaphthalene	0.205	0.002	mg/kg wet	0.200	102	70-130
2-Methylnaphthalene	0.221	0.002	"	0.200	110	70-130
Acenaphthene	0.196	0.020	"	0.200	98.2	70-130
Anthracene	0.174	0.020	"	0.200	86.8	70-130
Benzo (a) anthracene	0.184	0.005	"	0.200	92.1	70-130
Benzo (a) pyrene	0.195	0.020	"	0.200	97.4	70-130

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Scott Williamson  
 Project Number: REM:42335  
 Project: Chevron - Gutterson 31T-401

**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 B511918 - EPA 3580**

**LCS (B511918-BS1)**

Prepared: 09/19/2025 Analyzed: 09/19/2025

Benzo (b) fluoranthene	0.208	0.020	mg/kg wet	0.200		104	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		100	70-130			
Benzo (k) fluoranthene	0.199	0.020	"	0.200		99.6	70-130			
Chrysene	0.190	0.020	"	0.200		95.1	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200		99.2	70-130			
Fluoranthene	0.195	0.020	"	0.200		97.7	70-130			
Fluorene	0.190	0.020	"	0.200		95.0	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200		101	70-130			
Naphthalene	0.195	0.002	"	0.200		97.7	70-130			
Phenanthrene	0.184	0.020	"	0.200		91.8	70-130			
Pyrene	0.193	0.020	"	0.200		96.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		95.1	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

**Matrix Spike (B511918-MS1)**

Source: E510404-01

Prepared: 09/19/2025 Analyzed: 09/19/2025

1-Methylnaphthalene	0.235	0.002	mg/kg dry	0.230	ND	102	70-130			
2-Methylnaphthalene	0.257	0.002	"	0.230	ND	112	70-130			
Acenaphthene	0.216	0.023	"	0.230	ND	93.8	70-130			
Anthracene	0.194	0.023	"	0.230	ND	84.3	70-130			
Benzo (a) anthracene	0.208	0.006	"	0.230	ND	90.5	70-130			
Benzo (a) pyrene	0.222	0.023	"	0.230	0.001	96.3	70-130			
Benzo (b) fluoranthene	0.235	0.023	"	0.230	ND	102	70-130			
Benzo (g,h,i) perylene	0.215	0.023	"	0.230	0.0008	93.4	70-130			
Benzo (k) fluoranthene	0.227	0.023	"	0.230	ND	98.9	70-130			
Chrysene	0.215	0.023	"	0.230	0.0009	93.3	70-130			

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 Project: Chevron - Gutterson 31T-401

**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 B511918 - EPA 3580**

**Matrix Spike (B511918-MS1)**

**Source: E510404-01**

Prepared: 09/19/2025 Analyzed: 09/19/2025

Dibenz (a,h) anthracene	0.227	0.023	mg/kg dry	0.230	0.0007	98.7	70-130			
Fluoranthene	0.219	0.023	"	0.230	ND	95.4	70-130			
Fluorene	0.212	0.023	"	0.230	0.0006	92.1	70-130			
Indeno (1,2,3-cd) pyrene	0.225	0.023	"	0.230	ND	98.1	70-130			
Naphthalene	0.225	0.002	"	0.230	ND	98.1	70-130			
Phenanthrene	0.205	0.023	"	0.230	ND	89.3	70-130			
Pyrene	0.217	0.023	"	0.230	ND	94.4	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		90.9	60-130			
Surrogate: Pyrene-d10	190		"	200		97.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

**Matrix Spike Dup (B511918-MSD1)**

**Source: E510404-01**

Prepared: 09/19/2025 Analyzed: 09/19/2025

1-Methylnaphthalene	0.239	0.002	mg/kg dry	0.230	ND	104	70-130	1.46	20	
2-Methylnaphthalene	0.258	0.002	"	0.230	ND	112	70-130	0.638	20	
Acenaphthene	0.217	0.023	"	0.230	ND	94.4	70-130	0.650	20	
Anthracene	0.196	0.023	"	0.230	ND	85.2	70-130	1.09	20	
Benzo (a) anthracene	0.207	0.006	"	0.230	ND	90.2	70-130	0.349	20	
Benzo (a) pyrene	0.215	0.023	"	0.230	0.001	93.3	70-130	3.19	20	
Benzo (b) fluoranthene	0.235	0.023	"	0.230	ND	102	70-130	0.232	20	
Benzo (g,h,i) perylene	0.220	0.023	"	0.230	0.0008	95.3	70-130	2.00	20	
Benzo (k) fluoranthene	0.216	0.023	"	0.230	ND	94.1	70-130	5.04	20	
Chrysene	0.210	0.023	"	0.230	0.0009	91.2	70-130	2.27	20	
Dibenz (a,h) anthracene	0.225	0.023	"	0.230	0.0007	97.6	70-130	1.11	20	
Fluoranthene	0.215	0.023	"	0.230	ND	93.8	70-130	1.78	20	
Fluorene	0.217	0.023	"	0.230	0.0006	94.0	70-130	2.08	20	
Indeno (1,2,3-cd) pyrene	0.226	0.023	"	0.230	ND	98.4	70-130	0.316	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B511918 - EPA 3580

**Matrix Spike Dup (B511918-MSD1)**

Source: E510404-01

Prepared: 09/19/2025 Analyzed: 09/19/2025

Naphthalene	0.222	0.002	mg/kg dry	0.230	ND	96.6	70-130	1.55	20	
Phenanthrene	0.207	0.023	"	0.230	ND	90.0	70-130	0.808	20	
Pyrene	0.215	0.023	"	0.230	ND	93.7	70-130	0.779	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Pyrene-d10	190		"	200		97.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	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 B511808 - EPA 3550B**

**Blank (B511808-BLK1)**

Prepared: 09/18/2025 Analyzed: 09/18/2025

Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	24.9		62.7	50-150			

**LCS (B511808-BS1)**

Prepared: 09/18/2025 Analyzed: 09/18/2025

Diesel (C10-C28)	894	50.0	mg/kg wet	1000		89.4	70-130			
Residual Range Organics (C28-C36)	990	200	"	1000		99.0	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.6	50-150			

**Matrix Spike (B511808-MS1)**

**Source: E5I0286-01**

Prepared: 09/18/2025 Analyzed: 09/18/2025

Diesel (C10-C28)	831	50.0	mg/kg wet	1000	ND	83.1	70-130			
Residual Range Organics (C28-C36)	914	200	"	1000	ND	91.4	70-130			
Surrogate: o-Terphenyl	37		"	49.8		73.7	50-150			

**Matrix Spike Dup (B511808-MSD1)**

**Source: E5I0286-01**

Prepared: 09/18/2025 Analyzed: 09/18/2025

Diesel (C10-C28)	838	50.0	mg/kg wet	1000	ND	83.8	70-130	0.939	35	
Residual Range Organics (C28-C36)	911	200	"	1000	ND	91.1	70-130	0.380	35	
Surrogate: o-Terphenyl	43		"	49.8		85.6	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 B511868 - EPA 3050B**

**Blank (B511868-BLK1)**

Prepared: 09/18/2025 Analyzed: 09/22/2025

Terbium (H2)	99.2		mg/kg wet				70-130			
Bismuth (H2)	98.0		"				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 (B511868-BS1)**

Prepared: 09/18/2025 Analyzed: 09/22/2025

Bismuth (H2)	96.9		mg/kg wet				70-130			
Terbium (H2)	102		"				70-130			
Arsenic	4.70	0.218	"	5.00		93.9	80-120			
Barium	457	61.5	"	500		91.3	80-120			
Cadmium	4.70	0.285	"	5.00		94.1	80-120			
Copper	48.0	34.5	"	50.0		95.9	80-120			
Lead	4.55	10.5	"	5.00		91.0	80-120			U
Nickel	5.06	19.5	"	5.00		101	80-120			U
Selenium	4.53	0.184	"	5.00		90.5	80-120			
Silver	4.72	0.600	"	5.00		94.5	80-120			
Zinc	47.5	278	"	50.0		95.0	80-120			U

**Matrix Spike (B511868-MS1)**

Source: E510400-05

Prepared: 09/18/2025 Analyzed: 09/22/2025

Bismuth (H2)	85.5		mg/kg dry		79.7		70-130			
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 Project: Chevron - Gutterson 31T-401

**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 B511868 - EPA 3050B**

**Matrix Spike (B511868-MS1)**

**Source: E510400-05**

Prepared: 09/18/2025 Analyzed: 09/22/2025

Terbium (H2)	90.6		mg/kg dry		83.5		70-130			
Arsenic	6.39	0.194	"	4.45	1.99	98.9	75-125			
Barium	559	54.8	"	445	72.7	109	75-125			
Cadmium	4.67	0.254	"	4.45	0.0809	103	75-125			
Copper	54.0	30.7	"	44.5	4.70	111	75-125			
Lead	9.20	9.35	"	4.45	4.88	97.1	75-125			U
Nickel	9.56	17.4	"	4.45	5.10	100	75-125			U
Selenium	4.67	0.164	"	4.45	0.0359	104	75-125			
Silver	4.81	0.534	"	4.45	0.0147	108	75-125			
Zinc	75.5	247	"	44.5	26.3	111	75-125			U

**Matrix Spike Dup (B511868-MSD1)**

**Source: E510400-05**

Prepared: 09/18/2025 Analyzed: 09/22/2025

Bismuth (H2)	89.6		mg/kg dry		79.7		70-130	4.76		
Terbium (H2)	92.7		"		83.5		70-130	2.28		
Arsenic	7.51	0.204	"	4.68	1.99	118	75-125	16.1	20	
Barium	661	57.5	"	468	72.7	126	75-125	16.7	20	QM-07
Cadmium	5.57	0.267	"	4.68	0.0809	117	75-125	17.7	20	
Copper	64.6	32.3	"	46.8	4.70	128	75-125	17.9	20	QM-07
Lead	10.8	9.82	"	4.68	4.88	126	75-125	15.9	20	QM-07
Nickel	11.3	18.2	"	4.68	5.10	132	75-125	16.6	20	QM-07, U
Selenium	5.45	0.173	"	4.68	0.0359	116	75-125	15.3	20	
Silver	5.63	0.561	"	4.68	0.0147	120	75-125	15.7	20	
Zinc	88.5	260	"	46.8	26.3	133	75-125	15.8	20	QM-07, 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 B511820 - Saturated Paste pH/EC**

**Blank (B511820-BLK1)**

Prepared: 09/18/2025 Analyzed: 09/19/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm U

**Duplicate (B511820-DUP1)**

**Source: E510400-01**

Prepared: 09/18/2025 Analyzed: 09/19/2025

pH 7.46 pH Units 7.55 1.20 25  
 Specific Conductance (EC) 0.147 0.00500 mmhos/cm 0.196 29.0 25 QR-DUP

**Batch B511821 - Saturated Paste pH/EC**

**Blank (B511821-BLK1)**

Prepared: 09/18/2025 Analyzed: 09/19/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm U

**Duplicate (B511821-DUP1)**

**Source: E510404-05**

Prepared: 09/18/2025 Analyzed: 09/19/2025

Specific Conductance (EC) 0.352 0.00500 mmhos/cm 0.381 7.93 25  
 pH 8.30 pH Units 8.30 0.00 25

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Project: Chevron - Gutterson 31T-401

**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 B511834 - EPA 5030 (soil)**

**Blank (B511834-BLK1)**

Prepared: 09/18/2025 Analyzed: 09/21/2025

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	0.13		"	0.125	107		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

**LCS (B511834-BS1)**

Prepared: 09/18/2025 Analyzed: 09/21/2025

1,2,4-Trimethylbenzene	0.100	0.002	mg/kg wet				70-130			
1,3,5-Trimethylbenzene	0.097	0.002	"				70-130			
Benzene	0.086	0.002	"				70-130			
Ethylbenzene	0.100	0.002	"				70-130			
Naphthalene	0.086	0.004	"				70-130			
Toluene	0.088	0.002	"				70-130			
o-Xylene	0.097	0.002	"				70-130			
m,p-Xylene	0.198	0.004	"				70-130			

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

**Matrix Spike (B511834-MS1)**

Source: E510401-01

Prepared: 09/18/2025 Analyzed: 09/21/2025

1,2,4-Trimethylbenzene	0.124	0.002	mg/kg dry		ND		70-130			
1,3,5-Trimethylbenzene	0.123	0.002	"		ND		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 B51834 - EPA 5030 (soil)

**Matrix Spike (B51834-MS1)**

Source: E510401-01

Prepared: 09/18/2025 Analyzed: 09/21/2025

Benzene	0.103	0.002	mg/kg dry		ND		70-130			
Ethylbenzene	0.127	0.002	"		ND		70-130			
Naphthalene	0.095	0.004	"		ND		70-130			
Toluene	0.108	0.002	"		ND		70-130			
o-Xylene	0.122	0.002	"		ND		70-130			
m,p-Xylene	0.254	0.005	"		ND		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.141		103	70-130			
Surrogate: Toluene-d8	0.14		"	0.141		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.141		102	70-130			

**Matrix Spike Dup (B51834-MSD1)**

Source: E510401-01

Prepared: 09/18/2025 Analyzed: 09/21/2025

1,2,4-Trimethylbenzene	0.109	0.002	mg/kg dry		ND		70-130	12.9	20	
1,3,5-Trimethylbenzene	0.107	0.002	"		ND		70-130	13.9	20	
Benzene	0.095	0.002	"		ND		70-130	7.20	20	
Ethylbenzene	0.111	0.002	"		ND		70-130	13.7	20	
Naphthalene	0.094	0.004	"		ND		70-130	0.0716	20	
Toluene	0.097	0.002	"		ND		70-130	10.5	20	
o-Xylene	0.108	0.002	"		ND		70-130	11.7	20	
m,p-Xylene	0.221	0.005	"		ND		70-130	14.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.141		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.141		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.141		101	70-130			

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 Project: Chevron - Gutterson 31T-401

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L841641 -</b>										
<b>DUP (L 95253-DUP)</b>			<b>Source: 95253</b>		Prepared: Analyzed: 09/26/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg dry		<0.500	-		0	20	
<b>MS (L 95253-MS)</b>			<b>Source: 95253</b>		Prepared: Analyzed: 09/26/2025					
Chromium, Hexavalent	3.11	2.5	mg/Kg dry	39.4	< 0.244	8	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 09/26/2025					
Chromium, Hexavalent	6.56	0.5	mg/Kg	8		82	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 09/26/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Project: Chevron - Gutterson 31T-401

**Total Metals by 7196A - Quality Control  
Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L840640 -**

**DUP (L 95248-DUP)**

**Source: E5I0404-04**

Prepared: Analyzed: 09/22/2025

Chromium, Hexavalent	ND	0.552	mg/Kg - dry		<0.500	-		0	20	
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**MS (L 95248-MS)**

**Source: E5I0404-04**

Prepared: Analyzed: 09/22/2025

Chromium, Hexavalent	35.5	2.76	mg/Kg - dry	39	< 0.244	91	75-125			
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**LCS (LCS)**

Prepared: Analyzed: 09/22/2025

Chromium, Hexavalent	7.55	0.5	mg/Kg	8		94	75-125			
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**LRB (LRB)**

Prepared: Analyzed: 09/22/2025

Chromium, Hexavalent	ND	0.5	mg/Kg							
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 Project: Chevron - Gutterson 31T-401

**Total Metals by 7196A - Quality Control  
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L840545 -**

**DUP (L 95245-DUP)**

**Source: E5I0404-01**

Prepared: Analyzed: 09/22/2025

Chromium, Hexavalent	ND	0.582	mg/Kg - dry		<0.500	-		0	20	
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**MS (L 95245-MS)**

**Source: E5I0404-01**

Prepared: Analyzed: 09/22/2025

Chromium, Hexavalent	35.2	2.91	mg/Kg - dry	39.6	< 0.244	89	75-125			
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**LCS (LCS)**

Prepared: Analyzed: 09/22/2025

Chromium, Hexavalent	7.02	0.5	mg/Kg	8		88	75-125			
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**LRB (LRB)**

Prepared: Analyzed: 09/22/2025

Chromium, Hexavalent	ND	0.5	mg/Kg							
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*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.*



Montrose Environmental  
471 Denver Ave  
Loveland CO 80537

Scott Williamson  
Project Number: REM:42335  
Project: Chevron - Gutterson 31T-401

### Notes and Definitions

- U Sample is Non-Detect.
- QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- \* QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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