

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 12, 2024

Daniel Simpson  
Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield, CO 80020

RE: Chevron - Garcia USX AB35-10D Tank Battery

Work Order #2411239

Enclosed are the results of analyses for samples received by Summit Scientific on 11/13/24 17:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury  
President



Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0-6"	2411239-01	Soil	11/13/24 11:06	11/13/24 17:55
AST02@0-6"	2411239-02	Soil	11/13/24 11:11	11/13/24 17:55
AST03@0-6"	2411239-03	Soil	11/13/24 11:17	11/13/24 17:55
SEP01-DL@2.5'	2411239-04	Soil	11/13/24 11:24	11/13/24 17:55
SEP02-DL@2.5'	2411239-05	Soil	11/13/24 11:30	11/13/24 17:55
SEP02-FL@1'	2411239-06	Soil	11/13/24 11:38	11/13/24 17:55
SEP01-FL@0-6"	2411239-07	Soil	11/13/24 11:52	11/13/24 17:55
PWV01-B@4'	2411239-08	Soil	11/13/24 14:15	11/13/24 17:55
PWV01-W@1'	2411239-09	Soil	11/13/24 14:23	11/13/24 17:55

Summit Scientific

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4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page 1 of 1
2411239	

Client: Tasman, Inc.		Project Manager: Daniel Simpson		Company: Chevron	
Address: 6855 W. 119th Ave.		E-Mail: Tas-chev-on-5@tasman-geo.com		Project Name/Location: Garcia USX AB35-100 Tank	
City/State/Zip: Broomfield / CO / 80020				AFE#:	
Phone: 303-487-1228		Project Name: Garcia USX AB35-100 Tank		PO/Billing Codes:	
Sampler Name: Wyatt Wadleigh		Project Number:		Contact: Mike Montoya	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS		HOLD
1	AST0100-6"	11/13/24	11:06	2			X			X										SAR, EC, pH by saturated paste
2	AST0200-6"		11:11																	
3	AST0300-6"		11:17																	
4	SEP01-FL02.5'		11:24																	
5	SEP02-FL02.5'		11:30																	
6	SEP02-FL01'		11:38																	
7	SEP01-FL00-6"		11:52																	
8	PWV01-BA4'		14:15																	
9	PWV01-WA1'		14:23																	
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>Wadleigh</i>	Date/Time: 11/13/24 17:20	Received by: Tasman Lockbox	Date/Time: 11/13/24 17:20	TAT Business Days	Field DO	Notes: 
Relinquished by: Tasman Lockbox	Date/Time: 11/13/24 17:55	Received by: <i>[Signature]</i>	Date/Time: 11/13/24 17:55	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 9.1	Corrected Temperature: $\emptyset$	IR gun #:		Standard	X Field Turb.	
			HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2411239

Client: Tasman

Client Project ID: Garcia USX AB39-10D Tank Battery

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: \_\_\_\_\_

-

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column - HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

AS

Custodian Printed Name

11/13/24

Date/Time



Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST01@0-6"**  
**2411239-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0827	11/15/24	11/16/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0831	11/15/24	11/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.40	67.2 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST01@0-6"**  
**2411239-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0797	11/15/24	11/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0223	66.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	63.1 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1026	11/20/24	11/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST01@0-6"**  
**2411239-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.95	0.200	mg/kg dry	1	BHK0986	11/19/24	11/27/24	EPA 6020B	
Barium	30.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.29	0.400	"	"	"	"	"	"	
Lead	3.64	0.200	"	"	"	"	"	"	
Nickel	2.66	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/13/24 11:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0004	12/01/24	12/02/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: 11/13/24 11:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.5	0.0500	mg/L dry	1	BHK1340	11/26/24	12/05/24	EPA 6020B	
Magnesium	3.53	0.0500	"	"	"	"	"	"	
Sodium	0.687	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/13/24 11:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0410	0.00100	units	1	BHL0245	12/05/24	12/05/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST01@0-6"**  
**2411239-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	98.2			%	1	BHK0985	11/19/24	11/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.107	0.0100		mmhos/cm	1	BHK1342	11/26/24	12/04/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	9.01			pH Units	1	BHK1341	11/26/24	12/04/24	EPA 9045D	

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Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST02@0-6"**  
**2411239-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0827	11/15/24	11/16/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0831	11/15/24	11/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.04	72.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
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Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST02@0-6"**  
**2411239-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0797	11/15/24	11/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0233	69.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	67.1 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1026	11/20/24	11/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST02@0-6"**  
**2411239-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.66	0.200	mg/kg dry	1	BHK0986	11/19/24	11/27/24	EPA 6020B	
Barium	29.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.09	0.400	"	"	"	"	"	"	
Lead	2.83	0.200	"	"	"	"	"	"	
Nickel	2.64	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/13/24 11:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0004	12/01/24	12/02/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: 11/13/24 11:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.3	0.0500	mg/L dry	1	BHK1340	11/26/24	12/05/24	EPA 6020B	
Magnesium	3.21	0.0500	"	"	"	"	"	"	
Sodium	0.0749	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/13/24 11:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00466	0.00100	units	1	BHL0245	12/05/24	12/05/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST02@0-6"**  
**2411239-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	97.1			%	1	BHK0985	11/19/24	11/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.0560	0.0100		mmhos/cm	1	BHK1342	11/26/24	12/04/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.93			pH Units	1	BHK1341	11/26/24	12/04/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST03@0-6"**  
**2411239-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0827	11/15/24	11/16/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0417	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>63</b>	50		mg/kg	1	BHK0831	11/15/24	11/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.74	61.9 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST03@0-6"**  
**2411239-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0797	11/15/24	11/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.6 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1026	11/20/24	11/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST03@0-6"**  
**2411239-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.09	0.200	mg/kg dry	1	BHK0986	11/19/24	11/27/24	EPA 6020B	
Barium	35.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.27	0.400	"	"	"	"	"	"	
Lead	4.13	0.200	"	"	"	"	"	"	
Nickel	3.46	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/13/24 11:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0004	12/01/24	12/02/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: 11/13/24 11:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.7	0.0500	mg/L dry	1	BHK1340	11/26/24	12/05/24	EPA 6020B	
Magnesium	4.11	0.0500	"	"	"	"	"	"	
Sodium	0.179	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/13/24 11:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00977	0.00100	units	1	BHL0245	12/05/24	12/05/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**AST03@0-6"**  
**2411239-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	<b>94.6</b>			%	1	BHK0985	11/19/24	11/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.106</b>	0.0100		mmhos/cm	1	BHK1342	11/26/24	12/04/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	<b>8.81</b>			pH Units	1	BHK1341	11/26/24	12/04/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP01-DL@2.5'**  
**2411239-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0827	11/15/24	11/16/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0417	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0831	11/15/24	11/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.30	66.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP01-DL@2.5'**  
**2411239-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0797	11/15/24	11/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0157	47.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0154	46.3 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1026	11/20/24	11/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP01-DL@2.5'**  
**2411239-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.85	0.200	mg/kg dry	1	BHK0986	11/19/24	11/27/24	EPA 6020B	
Barium	35.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.30	0.400	"	"	"	"	"	"	
Lead	3.32	0.200	"	"	"	"	"	"	
Nickel	2.82	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/13/24 11:24

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0004	12/01/24	12/02/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: 11/13/24 11:24

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.1	0.0500	mg/L dry	1	BHK1340	11/26/24	12/05/24	EPA 6020B	
Magnesium	4.99	0.0500	"	"	"	"	"	"	
Sodium	6.82	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/13/24 11:24

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.373	0.00100	units	1	BHL0245	12/05/24	12/05/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP01-DL@2.5'**  
**2411239-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	<b>94.0</b>			%	1	BHK0985	11/19/24	11/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.253</b>	0.0100		mmhos/cm	1	BHK1342	11/26/24	12/04/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	<b>8.80</b>			pH Units	1	BHK1341	11/26/24	12/04/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP02-DL@2.5'**  
**2411239-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/13/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0827	11/15/24	11/16/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0409	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/13/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0831	11/15/24	11/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.44	67.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP02-DL@2.5'**  
**2411239-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0797	11/15/24	11/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0141	42.3 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/13/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1026	11/20/24	11/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/13/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP02-DL@2.5'**  
**2411239-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.40	0.200	mg/kg dry	1	BHK0986	11/19/24	11/27/24	EPA 6020B
Barium	69.6	0.400	"	"	"	"	"	"
Cadmium	0.220	0.200	"	"	"	"	"	"
Copper	4.84	0.400	"	"	"	"	"	"
Lead	7.89	0.200	"	"	"	"	"	"
Nickel	5.31	0.400	"	"	"	"	"	"
Silver	0.0322	0.0200	"	"	"	"	"	"
Zinc	23.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/13/24 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0004	12/01/24	12/02/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: 11/13/24 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.2	0.0500	mg/L dry	1	BHK1340	11/26/24	12/05/24	EPA 6020B	
Magnesium	4.55	0.0500	"	"	"	"	"	"	
Sodium	0.450	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/13/24 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0190	0.00100	units	1	BHL0245	12/05/24	12/05/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/13/24 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP02-DL@2.5'**  
**2411239-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

<b>% Solids</b>	<b>84.4</b>	%	1	BHK0985	11/19/24	11/20/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.135</b>	0.0100	mmhos/cm	1	BHK1342	11/26/24	12/04/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.82</b>		pH Units	1	BHK1341	11/26/24	12/04/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP02-FL@1'**  
**2411239-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/13/24 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0827	11/15/24	11/16/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/13/24 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0412	103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.7 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/13/24 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0831	11/15/24	11/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/13/24 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.72	61.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP02-FL@1'**  
**2411239-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0797	11/15/24	11/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0136	40.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0116	34.9 %	40-140		"	"	"	"	S-04

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/13/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1026	11/20/24	11/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/13/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP02-FL@1'**  
**2411239-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.15	0.200	mg/kg dry	1	BHL0181	12/04/24	12/11/24	EPA 6020B
Barium	69.9	0.400	"	"	"	"	"	"
Cadmium	0.257	0.200	"	"	"	"	"	"
Copper	5.96	0.400	"	"	"	"	"	"
Lead	7.67	0.200	"	"	"	"	"	"
Nickel	5.94	0.400	"	"	"	"	"	"
Silver	0.0338	0.0200	"	"	"	"	"	"
Zinc	26.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/13/24 11:38

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0004	12/01/24	12/02/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: 11/13/24 11:38

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.1	0.0500	mg/L dry	1	BHK1340	11/26/24	12/05/24	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	29.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/13/24 11:38

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.953	0.00100	units	1	BHL0245	12/05/24	12/05/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/13/24 11:38

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP02-FL@1'**  
**2411239-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

<b>% Solids</b>	<b>88.9</b>	%	1	BHK0985	11/19/24	11/20/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.643</b>	0.0100	mmhos/cm	1	BHK1342	11/26/24	12/04/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.21</b>		pH Units	1	BHK1341	11/26/24	12/04/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP01-FL@0-6"**  
**2411239-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/13/24 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0827	11/15/24	11/16/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/13/24 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/13/24 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0831	11/15/24	11/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/13/24 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.73	61.9 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP01-FL@0-6''**  
**2411239-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0797	11/15/24	11/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/13/24 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.8 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/13/24 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1026	11/20/24	11/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/13/24 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP01-FL@0-6''**  
**2411239-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.94	0.200	mg/kg dry	1	BHL0181	12/04/24	12/11/24	EPA 6020B
Barium	521	0.400	"	"	"	"	"	"
Cadmium	0.556	0.200	"	"	"	"	"	"
Copper	6.23	0.400	"	"	"	"	"	"
Lead	11.0	0.200	"	"	"	"	"	"
Nickel	3.94	0.400	"	"	"	"	"	"
Silver	0.0481	0.0200	"	"	"	"	"	"
Zinc	18.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/13/24 11:52

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0004	12/01/24	12/02/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: 11/13/24 11:52

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.7	0.0500	mg/L dry	1	BHK1340	11/26/24	12/05/24	EPA 6020B	
Magnesium	3.06	0.0500	"	"	"	"	"	"	
Sodium	0.820	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/13/24 11:52

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0496	0.00100	units	1	BHL0245	12/05/24	12/05/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/13/24 11:52

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**SEP01-FL@0-6"**  
**2411239-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	94.5	%	1	BHK0985	11/19/24	11/20/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.128	0.0100	mmhos/cm	1	BHK1342	11/26/24	12/04/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/13/24 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BHK1341	11/26/24	12/04/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**PWV01-B@4'**  
**2411239-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0827	11/15/24	11/16/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0414	103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0831	11/15/24	11/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.94	71.5 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**PWV01-B@4'**  
**2411239-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0797	11/15/24	11/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0178	53.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0150	45.0 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1026	11/20/24	11/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**PWV01-B@4'**  
**2411239-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.49	0.200	mg/kg dry	1	BHL0181	12/04/24	12/11/24	EPA 6020B	
Barium	85.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.00	0.400	"	"	"	"	"	"	
Lead	5.06	0.200	"	"	"	"	"	"	
Nickel	3.11	0.400	"	"	"	"	"	"	
Silver	0.0239	0.0200	"	"	"	"	"	"	
Zinc	13.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/13/24 14:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0004	12/01/24	12/02/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: 11/13/24 14:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.8	0.0500	mg/L dry	1	BHK1340	11/26/24	12/05/24	EPA 6020B	
Magnesium	6.33	0.0500	"	"	"	"	"	"	
Sodium	30.4	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/13/24 14:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.82	0.00100	units	1	BHL0245	12/05/24	12/05/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**PWV01-B@4'**  
**2411239-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	93.3			%	1	BHK0985	11/19/24	11/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.434	0.0100		mmhos/cm	1	BHK1342	11/26/24	12/04/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/13/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.69			pH Units	1	BHK1341	11/26/24	12/04/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**PWV01-W@1'**  
**2411239-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/13/24 14:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0827	11/15/24	11/16/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/13/24 14:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0409	102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/13/24 14:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0831	11/15/24	11/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/13/24 14:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.09	64.7 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**PWV01-W@1'**  
**2411239-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0797	11/15/24	11/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/13/24 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0143	42.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0132	39.7 %	40-140		"	"	"	"	S-04

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/13/24 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK1026	11/20/24	11/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/13/24 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**PWV01-W@1'**  
**2411239-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.05	0.200	mg/kg dry	1	BHL0181	12/04/24	12/11/24	EPA 6020B	
Barium	50.8	0.400	"	"	"	"	"	"	
Cadmium	0.247	0.200	"	"	"	"	"	"	
Copper	4.87	0.400	"	"	"	"	"	"	
Lead	6.73	0.200	"	"	"	"	"	"	
Nickel	4.47	0.400	"	"	"	"	"	"	
Silver	0.0321	0.0200	"	"	"	"	"	"	
Zinc	19.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/13/24 14:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0004	12/01/24	12/02/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: 11/13/24 14:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.6	0.0500	mg/L dry	1	BHK1340	11/26/24	12/05/24	EPA 6020B	
Magnesium	4.65	0.0500	"	"	"	"	"	"	
Sodium	0.979	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/13/24 14:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0516	0.00100	units	1	BHL0245	12/05/24	12/05/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 11/13/24 14:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**PWV01-W@1'**  
**2411239-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	86.9	%	1	BHK0985	11/19/24	11/20/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/13/24 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.215	0.0100	mmhos/cm	1	BHK1342	11/26/24	12/04/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/13/24 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BHK1341	11/26/24	12/04/24	EPA 9045D	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

#### Batch BHK0827 - EPA 5030 Soil MS

##### Blank (BHK0827-BLK1)

Prepared: 11/15/24 Analyzed: 11/16/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.5	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.6	50-150			

##### LCS (BHK0827-BS1)

Prepared: 11/15/24 Analyzed: 11/16/24

Benzene	0.0915	0.0020	mg/kg	0.100		91.5	70-130			
Toluene	0.0920	0.0050	"	0.100		92.0	70-130			
Ethylbenzene	0.0907	0.0050	"	0.100		90.7	70-130			
m,p-Xylene	0.183	0.010	"	0.200		91.4	70-130			
o-Xylene	0.0926	0.0050	"	0.100		92.6	70-130			
1,2,4-Trimethylbenzene	0.0889	0.0050	"	0.100		88.9	70-130			
1,3,5-Trimethylbenzene	0.0892	0.0050	"	0.100		89.2	70-130			
Naphthalene	0.0787	0.0038	"	0.100		78.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.5	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

##### Matrix Spike (BHK0827-MS1)

Source: 2411238-01

Prepared: 11/15/24 Analyzed: 11/16/24

Benzene	0.0950	0.0020	mg/kg	0.100	ND	95.0	70-130			
Toluene	0.0951	0.0050	"	0.100	ND	95.1	70-130			
Ethylbenzene	0.0959	0.0050	"	0.100	ND	95.9	70-130			
m,p-Xylene	0.191	0.010	"	0.200	ND	95.6	70-130			
o-Xylene	0.0948	0.0050	"	0.100	ND	94.8	70-130			
1,2,4-Trimethylbenzene	0.0893	0.0050	"	0.100	ND	89.3	70-130			
1,3,5-Trimethylbenzene	0.0923	0.0050	"	0.100	ND	92.3	70-130			
Naphthalene	0.0802	0.0038	"	0.100	ND	80.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0395		"	0.0400		98.8	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHK0827 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BHK0827-MSD1)</b>	<b>Source: 2411238-01</b>			<b>Prepared: 11/15/24 Analyzed: 11/16/24</b>						
Benzene	0.0898	0.0020	mg/kg	0.100	ND	89.8	70-130	5.55	30	
Toluene	0.0908	0.0050	"	0.100	ND	90.8	70-130	4.71	30	
Ethylbenzene	0.0915	0.0050	"	0.100	ND	91.5	70-130	4.67	30	
m,p-Xylene	0.184	0.010	"	0.200	ND	92.0	70-130	3.84	30	
o-Xylene	0.0924	0.0050	"	0.100	ND	92.4	70-130	2.56	30	
1,2,4-Trimethylbenzene	0.0876	0.0050	"	0.100	ND	87.6	70-130	1.93	30	
1,3,5-Trimethylbenzene	0.0896	0.0050	"	0.100	ND	89.6	70-130	2.97	30	
Naphthalene	0.0788	0.0038	"	0.100	ND	78.8	70-130	1.74	30	
Surrogate: 1,2-Dichloroethane-d4	0.0379		"	0.0400		94.7	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limits	RPD	Limit		

**Batch BHK0831 - EPA 3550A**

**Blank (BHK0831-BLK1)**

Prepared: 11/15/24 Analyzed: 11/18/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	14.7		"	12.5		118	30-150			

**LCS (BHK0831-BS1)**

Prepared: 11/15/24 Analyzed: 11/18/24

C10-C28 (DRO)	536	50	mg/kg	500		107	70-130			
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		105	30-150			

**Matrix Spike (BHK0831-MS1)**

Source: 2411238-01

Prepared: 11/15/24 Analyzed: 11/18/24

C10-C28 (DRO)	528	50	mg/kg	500	21.6	101	70-130			
Surrogate: <i>o</i> -Terphenyl	11.4		"	12.5		91.3	30-150			

**Matrix Spike Dup (BHK0831-MSD1)**

Source: 2411238-01

Prepared: 11/15/24 Analyzed: 11/18/24

C10-C28 (DRO)	517	50	mg/kg	500	21.6	99.0	70-130	2.25	20	
Surrogate: <i>o</i> -Terphenyl	11.7		"	12.5		93.5	30-150			

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHK0797 - EPA 5030 Soil MS**

**Blank (BHK0797-BLK1)**

Prepared: 11/15/24 Analyzed: 11/16/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0265		"	0.0333		79.6	40-140			
Surrogate: Fluoranthene-d10	0.0270		"	0.0333		81.0	40-140			

**LCS (BHK0797-BS1)**

Prepared: 11/15/24 Analyzed: 11/16/24

Acenaphthene	0.0234	0.00500	mg/kg	0.0333		70.1	40-140			
Anthracene	0.0240	0.00500	"	0.0333		72.0	40-140			
Benzo (a) anthracene	0.0239	0.00500	"	0.0333		71.8	40-140			
Benzo (a) pyrene	0.0233	0.00500	"	0.0333		69.9	40-140			
Benzo (b) fluoranthene	0.0230	0.00500	"	0.0333		68.9	40-140			
Benzo (k) fluoranthene	0.0234	0.00500	"	0.0333		70.2	40-140			
Chrysene	0.0233	0.00500	"	0.0333		69.9	40-140			
Dibenz (a,h) anthracene	0.0204	0.00500	"	0.0333		61.3	40-140			
Fluoranthene	0.0228	0.00500	"	0.0333		68.5	40-140			
Fluorene	0.0233	0.00500	"	0.0333		69.8	40-140			
Indeno (1,2,3-cd) pyrene	0.0226	0.00500	"	0.0333		67.8	40-140			
Pyrene	0.0243	0.00500	"	0.0333		72.8	40-140			
1-Methylnaphthalene	0.0233	0.00500	"	0.0333		69.8	40-140			
2-Methylnaphthalene	0.0226	0.00500	"	0.0333		67.9	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0236		"	0.0333		70.7	40-140			
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		69.0	40-140			

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHK0797 - EPA 5030 Soil MS**

**Matrix Spike (BHK0797-MS1)**

Source: 2411239-01

Prepared: 11/15/24 Analyzed: 11/16/24

Acenaphthene	0.0208	0.00500	mg/kg	0.0333	ND	62.5	40-140			
Anthracene	0.0209	0.00500	"	0.0333	ND	62.7	40-140			
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	ND	66.2	40-140			
Benzo (a) pyrene	0.0210	0.00500	"	0.0333	ND	62.9	40-140			
Benzo (b) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.5	40-140			
Benzo (k) fluoranthene	0.0210	0.00500	"	0.0333	ND	62.9	40-140			
Chrysene	0.0215	0.00500	"	0.0333	ND	64.4	40-140			
Dibenz (a,h) anthracene	0.0182	0.00500	"	0.0333	ND	54.5	40-140			
Fluoranthene	0.0203	0.00500	"	0.0333	ND	60.9	40-140			
Fluorene	0.0209	0.00500	"	0.0333	ND	62.8	40-140			
Indeno (1,2,3-cd) pyrene	0.0195	0.00500	"	0.0333	ND	58.5	40-140			
Pyrene	0.0235	0.00500	"	0.0333	ND	70.5	40-140			
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.7	40-140			
2-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	57.8	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.8	40-140			
Surrogate: Fluoranthene-d10	0.0205		"	0.0333		61.6	40-140			

**Matrix Spike Dup (BHK0797-MSD1)**

Source: 2411239-01

Prepared: 11/15/24 Analyzed: 11/16/24

Acenaphthene	0.0204	0.00500	mg/kg	0.0333	ND	61.2	40-140	2.17	30
Anthracene	0.0215	0.00500	"	0.0333	ND	64.4	40-140	2.78	30
Benzo (a) anthracene	0.0226	0.00500	"	0.0333	ND	67.8	40-140	2.46	30
Benzo (a) pyrene	0.0217	0.00500	"	0.0333	ND	65.2	40-140	3.55	30
Benzo (b) fluoranthene	0.0211	0.00500	"	0.0333	ND	63.3	40-140	0.270	30
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.5	40-140	0.984	30
Chrysene	0.0216	0.00500	"	0.0333	ND	64.7	40-140	0.519	30
Dibenz (a,h) anthracene	0.0199	0.00500	"	0.0333	ND	59.8	40-140	9.37	30
Fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	40-140	5.21	30
Fluorene	0.0205	0.00500	"	0.0333	ND	61.6	40-140	1.97	30
Indeno (1,2,3-cd) pyrene	0.0208	0.00500	"	0.0333	ND	62.5	40-140	6.59	30
Pyrene	0.0226	0.00500	"	0.0333	ND	67.8	40-140	3.82	30
1-Methylnaphthalene	0.0204	0.00500	"	0.0333	ND	61.3	40-140	2.65	30
2-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.8	40-140	8.33	30
Surrogate: 2-Methylnaphthalene-d10	0.0218		"	0.0333		65.5	40-140		
Surrogate: Fluoranthene-d10	0.0215		"	0.0333		64.4	40-140		

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHK1026 - EPA 3050B**

**Blank (BHK1026-BLK1)**

Prepared: 11/20/24 Analyzed: 11/27/24

Boron ND 2.00 mg/L

**LCS (BHK1026-BS1)**

Prepared: 11/20/24 Analyzed: 11/27/24

Boron 5.29 2.00 mg/L 5.00 106 80-120

**Duplicate (BHK1026-DUP1)**

Source: 2411239-01

Prepared: 11/20/24 Analyzed: 11/27/24

Boron 0.153 2.00 mg/L 0.197 24.7 20 QR-01

**Matrix Spike (BHK1026-MS1)**

Source: 2411239-01

Prepared: 11/20/24 Analyzed: 11/27/24

Boron 4.90 2.00 mg/L 5.00 0.197 94.0 75-125

**Matrix Spike Dup (BHK1026-MSD1)**

Source: 2411239-01

Prepared: 11/20/24 Analyzed: 11/27/24

Boron 5.11 2.00 mg/L 5.00 0.197 98.3 75-125 4.37 25

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHK0986 - EPA 3050B**

**Blank (BHK0986-BLK1)**

Prepared: 11/19/24 Analyzed: 11/27/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BHK0986-BS1)**

Prepared: 11/19/24 Analyzed: 11/27/24

Arsenic	41.4	0.200	mg/kg wet	41.7	99.2	80-120
Barium	43.1	0.400	"	41.7	103	80-120
Cadmium	2.13	0.200	"	2.08	102	80-120
Copper	45.3	0.400	"	41.7	109	80-120
Lead	20.7	0.200	"	20.8	99.6	80-120
Nickel	44.9	0.400	"	41.7	108	80-120
Silver	1.91	0.0200	"	2.08	91.5	80-120
Zinc	44.8	0.400	"	41.7	108	80-120
Selenium	4.81	0.260	"	4.17	115	80-120

**Duplicate (BHK0986-DUP1)**

Source: 2411223-01

Prepared: 11/19/24 Analyzed: 11/27/24

Arsenic	1.97	0.200	mg/kg dry	1.91	2.99	20
Barium	107	0.400	"	110	3.06	20
Cadmium	0.254	0.200	"	0.258	1.61	20
Copper	28.6	0.400	"	30.8	7.57	20
Lead	4.94	0.200	"	5.10	3.06	20
Nickel	4.17	0.400	"	4.46	6.64	20
Silver	0.0247	0.0200	"	0.0206	18.2	20
Zinc	24.2	0.400	"	26.0	7.18	20
Selenium	ND	0.260	"	ND		20

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BHK0986 - EPA 3050B**

<b>Matrix Spike (BHK0986-MS1)</b>		<b>Source: 2411223-01</b>			Prepared: 11/19/24		Analyzed: 11/27/24	
Arsenic	46.9	0.200	mg/kg dry	45.8	1.91	98.3	75-125	
Barium	152	0.400	"	45.8	110	90.4	75-125	
Cadmium	2.68	0.200	"	2.29	0.258	106	75-125	
Copper	44.1	0.400	"	45.8	30.8	28.9	75-125	QM-05
Lead	27.5	0.200	"	22.9	5.10	98.0	75-125	
Nickel	42.9	0.400	"	45.8	4.46	83.9	75-125	
Silver	3.91	0.0200	"	2.29	0.0206	170	75-125	QM-05
Zinc	54.1	0.400	"	45.8	26.0	61.5	75-125	QM-05
Selenium	5.20	0.260	"	4.58	ND	114	75-125	

<b>Matrix Spike Dup (BHK0986-MSD1)</b>		<b>Source: 2411223-01</b>			Prepared: 11/19/24		Analyzed: 11/27/24	
Arsenic	45.3	0.200	mg/kg dry	44.4	1.91	97.9	75-125	3.49 25
Barium	161	0.400	"	44.4	110	115	75-125	6.09 25
Cadmium	2.57	0.200	"	2.22	0.258	104	75-125	4.19 25
Copper	43.2	0.400	"	44.4	30.8	27.8	75-125	2.05 25 QM-05
Lead	26.7	0.200	"	22.2	5.10	97.4	75-125	3.11 25
Nickel	41.6	0.400	"	44.4	4.46	83.7	75-125	2.98 25
Silver	3.76	0.0200	"	2.22	0.0206	169	75-125	3.96 25 QM-05
Zinc	53.5	0.400	"	44.4	26.0	62.1	75-125	1.14 25 QM-05
Selenium	4.98	0.260	"	4.44	ND	112	75-125	4.25 25

**Batch BHL0181 - EPA 3050B**

<b>Blank (BHL0181-BLK1)</b>					Prepared: 12/04/24		Analyzed: 12/11/24	
Arsenic	ND	0.200	mg/kg wet					
Barium	ND	0.400	"					
Cadmium	ND	0.200	"					
Copper	ND	0.400	"					
Lead	ND	0.200	"					
Nickel	ND	0.400	"					
Silver	ND	0.0200	"					
Zinc	ND	0.400	"					
Selenium	ND	0.260	"					

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BHL0181 - EPA 3050B**

**LCS (BHL0181-BS1)**

Prepared: 12/04/24 Analyzed: 12/11/24

Arsenic	41.0	0.200	mg/kg wet	41.3		99.2	80-120			
Barium	40.5	0.400	"	41.3		98.1	80-120			
Cadmium	2.07	0.200	"	2.07		100	80-120			
Copper	40.9	0.400	"	41.3		98.9	80-120			
Lead	19.9	0.200	"	20.7		96.2	80-120			
Nickel	40.6	0.400	"	41.3		98.2	80-120			
Silver	2.06	0.0200	"	2.07		99.8	80-120			
Zinc	41.1	0.400	"	41.3		99.5	80-120			
Selenium	4.48	0.260	"	4.13		108	80-120			

**Duplicate (BHL0181-DUP1)**

Source: 2411208-01

Prepared: 12/04/24 Analyzed: 12/12/24

Arsenic	2.99	0.200	mg/kg dry		3.05			2.06	20	
Barium	261	0.400	"		256			2.14	20	
Cadmium	0.230	0.200	"		0.227			1.32	20	
Copper	3.99	0.400	"		3.77			5.73	20	
Lead	6.34	0.200	"		6.21			2.10	20	
Nickel	2.67	0.400	"		2.61			2.26	20	
Silver	0.0458	0.0200	"		0.0264			53.6	20	QR-01
Zinc	11.7	0.400	"		11.2			4.92	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BHL0181-MS1)**

Source: 2411208-01

Prepared: 12/04/24 Analyzed: 12/11/24

Arsenic	51.3	0.200	mg/kg dry	47.4	3.05	102	75-125			
Barium	388	0.400	"	47.4	256	279	75-125			QM-05
Cadmium	2.66	0.200	"	2.37	0.227	103	75-125			
Copper	36.2	0.400	"	47.4	3.77	68.5	75-125			QM-05
Lead	29.7	0.200	"	23.7	6.21	99.1	75-125			
Nickel	35.5	0.400	"	47.4	2.61	69.3	75-125			QM-05
Silver	2.41	0.0200	"	2.37	0.0264	101	75-125			
Zinc	46.1	0.400	"	47.4	11.2	73.7	75-125			QM-05
Selenium	4.55	0.260	"	4.74	ND	96.1	75-125			

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Total Metals by EPA 6020B - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BHL0181 - EPA 3050B**

<b>Matrix Spike Dup (BHL0181-MSD1)</b>	<b>Source: 2411208-01</b>			Prepared: 12/04/24		Analyzed: 12/11/24					
Arsenic	52.6	0.200	mg/kg dry	48.6	3.05	102	75-125	2.48	25		
Barium	363	0.400	"	48.6	256	222	75-125	6.51	25	QM-05	
Cadmium	2.70	0.200	"	2.43	0.227	102	75-125	1.47	25		
Copper	38.2	0.400	"	48.6	3.77	71.0	75-125	5.38	25	QM-05	
Lead	31.7	0.200	"	24.3	6.21	105	75-125	6.42	25		
Nickel	37.7	0.400	"	48.6	2.61	72.3	75-125	6.14	25	QM-05	
Silver	2.46	0.0200	"	2.43	0.0264	100	75-125	2.00	25		
Zinc	48.7	0.400	"	48.6	11.2	77.4	75-125	5.61	25		
Selenium	4.68	0.260	"	4.86	ND	96.4	75-125	2.74	25		

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BHL0004 - 3060A Mod**

**Blank (BHL0004-BLK1)**

Prepared: 12/01/24 Analyzed: 12/02/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHL0004-BS1)**

Prepared: 12/01/24 Analyzed: 12/02/24

Chromium, Hexavalent 25.7 0.30 mg/kg wet 25.0 103 80-120

**Duplicate (BHL0004-DUP1)**

**Source: 2411238-28**

Prepared: 12/01/24 Analyzed: 12/02/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHL0004-MS1)**

**Source: 2411238-28**

Prepared: 12/01/24 Analyzed: 12/02/24

Chromium, Hexavalent 25.9 0.30 mg/kg dry 25.4 ND 102 75-125

**Matrix Spike Dup (BHL0004-MSD1)**

**Source: 2411238-28**

Prepared: 12/01/24 Analyzed: 12/02/24

Chromium, Hexavalent 26.8 0.30 mg/kg dry 25.4 ND 106 75-125 3.47 20

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BHK1340 - General Preparation**

**Blank (BHK1340-BLK1)**

Prepared: 11/26/24 Analyzed: 12/05/24

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

**LCS (BHK1340-BS1)**

Prepared: 11/26/24 Analyzed: 12/05/24

Calcium	5.43	0.0500	mg/L wet	5.00	109	70-130				
Magnesium	4.92	0.0500	"	5.00	98.5	70-130				
Sodium	4.93	0.0500	"	5.00	98.6	70-130				

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BHK0985 - General Preparation**

**Duplicate (BHK0985-DUP1)**

**Source: 2411223-01**

Prepared: 11/19/24 Analyzed: 11/20/24

% Solids	91.8		%		88.0			4.17		20	
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Summit Scientific

*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.*



Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BHK1342 - General Preparation**

**Blank (BHK1342-BLK1)**

Prepared: 11/26/24 Analyzed: 12/04/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHK1342-BS1)**

Prepared: 11/26/24 Analyzed: 12/04/24

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BHK1342-DUP1)**

Source: 2411239-01

Prepared: 11/26/24 Analyzed: 12/04/24

Specific Conductance (EC) 0.105 0.0100 mmhos/cm 0.107 1.98 20

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BHK1341 - General Preparation**

**LCS (BHK1341-BS1)**

Prepared: 11/26/24 Analyzed: 12/04/24

pH 9.18 pH Units 9.18 100 95-105

**Duplicate (BHK1341-DUP1)**

Source: 2411239-01

Prepared: 11/26/24 Analyzed: 12/04/24

pH 9.00 pH Units 9.01 0.111 20

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Chevron - Garcia USX AB35-10D Tank Battery

Project Number: [none]  
Project Manager: Daniel Simpson

**Reported:**  
12/12/24 15:11

### Notes and Definitions

- S-04 A sample matrix effect prevented complete surrogate recovery.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference