

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 27, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Chevron - Watson Facility Resample

Work Order #2411101

Enclosed are the results of analyses for samples received by Summit Scientific on 11/06/24 16:30. 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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Watson Facility Resample

Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV01B - 4.0 (2)	2411101-01	Soil	11/06/24 00:00	11/06/24 16:30
PWV01N - 2.0 (2)	2411101-02	Soil	11/06/24 00:00	11/06/24 16:30
AST01B - 0.5 (2)	2411101-03	Soil	11/06/24 00:00	11/06/24 16:30
SEP01FL - 4.0 (2)	2411101-04	Soil	11/06/24 00:00	11/06/24 16:30
SEP01DL - 4.0 (2)	2411101-05	Soil	11/06/24 00:00	11/06/24 16:30

Client: Fremont		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: <u>Chorron</u>	
Address:		E-Mail: <u>Distribution list</u>		Project Name/Location:	
City/State/Zip:				AFE#:	
Phone: <u>913-514-7730</u>		Project Name: <u>WATSON Facility resample</u>		PO/Billing Codes:	
Sampler Name: <u>JOSHUA BELANGER</u>		Project Number: <u>C024-131</u>		Contact: <u>Mike Montoya</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Other	Full TABLE 915-1	Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #							
1	PW001B-4.0 (2)	11/6		2			X						X					
2	PW001N-2.0 (2)																	
3	AST01B-0.5 (2)																	
4	Sep01FL-4.0 (2)																	
5	Sep01DL-4.0 (2)																	
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/6 1300</u>	Received by: <u>Summit North</u>	Date/Time: <u>11/6 1300</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>11/6 1400</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/6 1400</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>7.1</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #:	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2411101

Client: Fremont Client Project ID: Watson facility resample

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

[] - [] [] []

Matrix (Check all that apply) Air [] Soil/Solid [] Water [] Other []

Temp (°C) 7.1 Thermometer # 1

Table with 5 columns: Question, Yes, No, N/A, Comments (if any). Rows include: If samples require cooling, is the temperature < 6°C? (1), If custody seals are present, are they intact? (1), Are samples due within 48 hours present?, Are water samples with short hold times present?, Is a chain-of-custody (COC) form present and filled out Completely? (1), Is the COC properly relinquished by the client w/ date and time recorded? (1), Were all samples received intact? (1), Was adequate sample volume provided? (1), Does the COC agree with the number and type of sample bottles received? (1), Do the sample IDs on the bottle labels match the COC? (1), For volatiles in water - is there headspace present? If yes, contact client and note in narrative., Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H2SO4, NaOH, HNO3, etc., If samples are acid preserved for metals, is the pH <= 2? (1) Record the pH in Comments., If dissolved metals are requested, were samples field filtered? Additional Comments (if any): (1) If NO, then contact the client before proceeding with analysis and note in case narrative.

AS Custodian Printed Name

11/6/24 Date/Time

2013.0



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Watson Facility Resample

Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

PWV01B - 4.0 (2)
2411101-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0420	11/08/24	11/11/24	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: **11/06/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0426	107 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0424	11/08/24	11/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.28	74.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: CO24-131
Project Manager: Paul Henchan

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11/27/24 09:58

PWV01B - 4.0 (2)
2411101-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0399	11/08/24	11/10/24	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: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0572	11/12/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11/27/24 09:58

PWV01B - 4.0 (2)
2411101-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.46	0.200	mg/kg dry	1	BHK1047	11/20/24	11/26/24	EPA 6020B
Barium	97.7	0.400	"	"	"	"	"	"
Cadmium	0.252	0.200	"	"	"	"	"	"
Copper	6.00	0.400	"	"	"	"	"	"
Lead	7.54	0.200	"	"	"	"	"	"
Nickel	6.12	0.400	"	"	"	"	"	"
Silver	0.0430	0.0200	"	"	"	"	"	"
Zinc	22.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/06/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0764	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: 11/06/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.0	0.0500	mg/L dry	1	BHK0894	11/17/24	11/22/24	EPA 6020B	
Magnesium	4.22	0.0500	"	"	"	"	"	"	
Sodium	4.36	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/06/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.150	0.00100	units	1	BHK1155	11/22/24	11/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/06/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PWV01B - 4.0 (2)
2411101-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.2	%	1	BHK0520	11/11/24	11/13/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.155	0.0100	mmhos/cm	1	BHK0895	11/17/24	11/21/24	EPA 120.1	

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

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BHK0896	11/17/24	11/21/24	EPA 9045D	

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PWV01N - 2.0 (2)
2411101-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0420	11/08/24	11/09/24	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: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0212	52.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0424	11/08/24	11/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.19	73.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PWV01N - 2.0 (2)
2411101-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0399	11/08/24	11/10/24	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	0.00940	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00569	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0246	73.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0269	80.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0572	11/12/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PWV01N - 2.0 (2)
2411101-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.27	0.200	mg/kg dry	1	BHK1047	11/20/24	11/26/24	EPA 6020B	
Barium	55.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.17	0.400	"	"	"	"	"	"	
Lead	5.98	0.200	"	"	"	"	"	"	
Nickel	4.52	0.400	"	"	"	"	"	"	
Silver	0.0259	0.0200	"	"	"	"	"	"	
Zinc	18.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0764	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.3	0.0500	mg/L dry	1	BHK0894	11/17/24	11/22/24	EPA 6020B	
Magnesium	3.74	0.0500	"	"	"	"	"	"	
Sodium	2.85	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.112	0.00100	units	1	BHK1155	11/22/24	11/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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PWV01N - 2.0 (2)
2411101-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.4		%	1	BHK0520	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.152	0.0100	mmhos/cm	1	BHK0895	11/17/24	11/21/24	EPA 120.1	

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

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.81		pH Units	1	BHK0896	11/17/24	11/21/24	EPA 9045D	

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Project: Chevron - Watson Facility Resample
Project Number: CO24-131
Project Manager: Paul Henchan

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AST01B - 0.5 (2)
2411101-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0420	11/08/24	11/09/24	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: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0251	62.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	94.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	170	50	mg/kg	1	BHK0424	11/08/24	11/10/24	EPA 8015M	
C28-C36 (ORO)	58	50	"	"	"	"	"	"	

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.7	86.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Watson Facility Resample

Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

AST01B - 0.5 (2)
2411101-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0399	11/08/24	11/10/24	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	0.0146	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0189	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0244	73.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0572	11/12/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Watson Facility Resample
Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

AST01B - 0.5 (2)
2411101-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.52	0.200	mg/kg dry	1	BHK1047	11/20/24	11/26/24	EPA 6020B	
Barium	53.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.67	0.400	"	"	"	"	"	"	
Lead	4.89	0.200	"	"	"	"	"	"	
Nickel	3.67	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	16.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0764	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.5	0.0500	mg/L dry	1	BHK0894	11/17/24	11/22/24	EPA 6020B	
Magnesium	5.60	0.0500	"	"	"	"	"	"	
Sodium	3.56	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.143	0.00100	units	1	BHK1155	11/22/24	11/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: CO24-131
 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

AST01B - 0.5 (2)
2411101-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.8		%	1	BHK0520	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.299	0.0100	mmhos/cm	1	BHK0895	11/17/24	11/21/24	EPA 120.1	

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

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BHK0896	11/17/24	11/21/24	EPA 9045D	

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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

SEP01FL - 4.0 (2)
2411101-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0420	11/08/24	11/09/24	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: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0243	60.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	94.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0424	11/08/24	11/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.9	87.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

SEP01FL - 4.0 (2)
2411101-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0399	11/08/24	11/10/24	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: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0231	69.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0238	71.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0572	11/12/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Watson Facility Resample
Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

SEP01FL - 4.0 (2)
2411101-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.76	0.200	mg/kg dry	1	BHK1047	11/20/24	11/26/24	EPA 6020B	
Barium	66.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.47	0.400	"	"	"	"	"	"	
Lead	5.61	0.200	"	"	"	"	"	"	
Nickel	4.87	0.400	"	"	"	"	"	"	
Silver	0.0321	0.0200	"	"	"	"	"	"	
Zinc	19.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0764	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.5	0.0500	mg/L dry	1	BHK0894	11/17/24	11/22/24	EPA 6020B	
Magnesium	3.54	0.0500	"	"	"	"	"	"	
Sodium	1.90	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0804	0.00100	units	1	BHK1155	11/22/24	11/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

SEP01FL - 4.0 (2)
2411101-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1		%	1	BHK0520	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	1	BHK0895	11/17/24	11/21/24	EPA 120.1	

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

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83		pH Units	1	BHK0896	11/17/24	11/21/24	EPA 9045D	

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Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

SEP01DL - 4.0 (2)
2411101-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0420	11/08/24	11/09/24	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: **11/06/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0308	76.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0424	11/08/24	11/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.3	98.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0399	11/08/24	11/10/24	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: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0572	11/12/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SEP01DL - 4.0 (2)
2411101-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.58	0.200	mg/kg dry	1	BHK1047	11/20/24	11/26/24	EPA 6020B	
Barium	62.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.33	0.400	"	"	"	"	"	"	
Lead	6.20	0.200	"	"	"	"	"	"	
Nickel	3.43	0.400	"	"	"	"	"	"	
Silver	0.0204	0.0200	"	"	"	"	"	"	
Zinc	13.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/06/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0764	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: 11/06/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.6	0.0500	mg/L dry	1	BHK0894	11/17/24	11/22/24	EPA 6020B	
Magnesium	4.90	0.0500	"	"	"	"	"	"	
Sodium	2.16	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/06/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0764	0.00100	units	1	BHK1155	11/22/24	11/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

SEP01DL - 4.0 (2)
2411101-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BHK0520	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.238	0.0100	mmhos/cm	1	BHK0895	11/17/24	11/21/24	EPA 120.1	

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

Date Sampled: **11/06/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BHK0896	11/17/24	11/21/24	EPA 9045D	

Summit Scientific

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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHK0420 - EPA 5030 Soil MS

Blank (BHK0420-BLK1)

Prepared: 11/08/24 Analyzed: 11/09/24

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	0.0210		"	0.0400		52.6		50-150		
Surrogate: Toluene-d8	0.0400		"	0.0400		100		50-150		
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2		50-150		

LCS (BHK0420-BS1)

Prepared: 11/08/24 Analyzed: 11/09/24

Benzene	0.0836	0.0020	mg/kg	0.100		83.6		70-130		
Toluene	0.0936	0.0050	"	0.100		93.6		70-130		
Ethylbenzene	0.0971	0.0050	"	0.100		97.1		70-130		
m,p-Xylene	0.192	0.010	"	0.200		96.2		70-130		
o-Xylene	0.0934	0.0050	"	0.100		93.4		70-130		
1,2,4-Trimethylbenzene	0.0938	0.0050	"	0.100		93.8		70-130		
1,3,5-Trimethylbenzene	0.0964	0.0050	"	0.100		96.4		70-130		
Naphthalene	0.0968	0.0038	"	0.100		96.8		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.0215		"	0.0400		53.8		50-150		
Surrogate: Toluene-d8	0.0418		"	0.0400		105		50-150		
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.8		50-150		

Matrix Spike (BHK0420-MS1)

Source: 2411090-01

Prepared: 11/08/24 Analyzed: 11/09/24

Benzene	0.0624	0.0020	mg/kg	0.100	ND	62.4		70-130		QM-05
Toluene	0.0622	0.0050	"	0.100	ND	62.2		70-130		QM-05
Ethylbenzene	0.0721	0.0050	"	0.100	ND	72.1		70-130		
m,p-Xylene	0.154	0.010	"	0.200	ND	77.1		70-130		
o-Xylene	0.0756	0.0050	"	0.100	ND	75.6		70-130		
1,2,4-Trimethylbenzene	0.0737	0.0050	"	0.100	ND	73.7		70-130		
1,3,5-Trimethylbenzene	0.0778	0.0050	"	0.100	ND	77.8		70-130		
Naphthalene	0.0617	0.0038	"	0.100	ND	61.7		70-130		QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0242		"	0.0400		60.6		50-150		
Surrogate: Toluene-d8	0.0412		"	0.0400		103		50-150		
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0		50-150		

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Fremont Environmental
 PO Box 1289
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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

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 BHK0420 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0420-MSD1)	Source: 2411090-01			Prepared: 11/08/24 Analyzed: 11/09/24						
Benzene	0.0671	0.0020	mg/kg	0.100	ND	67.1	70-130	7.27	30	QM-05
Toluene	0.0662	0.0050	"	0.100	ND	66.2	70-130	6.22	30	QM-05
Ethylbenzene	0.0749	0.0050	"	0.100	ND	74.9	70-130	3.84	30	
m,p-Xylene	0.157	0.010	"	0.200	ND	78.5	70-130	1.74	30	
o-Xylene	0.0784	0.0050	"	0.100	ND	78.4	70-130	3.74	30	
1,2,4-Trimethylbenzene	0.0752	0.0050	"	0.100	ND	75.2	70-130	1.93	30	
1,3,5-Trimethylbenzene	0.0794	0.0050	"	0.100	ND	79.4	70-130	2.06	30	
Naphthalene	0.0660	0.0038	"	0.100	ND	66.0	70-130	6.76	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0260		"	0.0400		65.0	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	50-150			

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Project: Chevron - Watson Facility Resample
Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHK0424 - EPA 3550A

Blank (BHK0424-BLK1)

Prepared: 11/08/24 Analyzed: 11/10/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		107		30-150			

LCS (BHK0424-BS1)

Prepared: 11/08/24 Analyzed: 11/10/24

C10-C28 (DRO)	446	50	mg/kg	500		89.2		70-130			
Surrogate: <i>o</i> -Terphenyl	13.9		"	12.5		111		30-150			

Matrix Spike (BHK0424-MS1)

Source: 2411090-01

Prepared: 11/08/24 Analyzed: 11/10/24

C10-C28 (DRO)	469	50	mg/kg	500	ND	93.9		70-130			
Surrogate: <i>o</i> -Terphenyl	14.2		"	12.5		113		30-150			

Matrix Spike Dup (BHK0424-MSD1)

Source: 2411090-01

Prepared: 11/08/24 Analyzed: 11/10/24

C10-C28 (DRO)	454	50	mg/kg	500	ND	90.8		70-130	3.27	20	
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5		117		30-150			

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Project: Chevron - Watson Facility Resample
 Project Number: CO24-131
 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BHK0399 - EPA 5030 Soil MS

Blank (BHK0399-BLK1)

Prepared: 11/08/24 Analyzed: 11/09/24

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	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0216</i>		"	<i>0.0333</i>		<i>64.9</i>		<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0260</i>		"	<i>0.0333</i>		<i>77.9</i>		<i>40-140</i>			

LCS (BHK0399-BS1)

Prepared: 11/08/24 Analyzed: 11/09/24

Acenaphthene	0.0209	0.00500	mg/kg	0.0333	62.8	40-140
Anthracene	0.0210	0.00500	"	0.0333	63.1	40-140
Benzo (a) anthracene	0.0215	0.00500	"	0.0333	64.4	40-140
Benzo (a) pyrene	0.0206	0.00500	"	0.0333	61.8	40-140
Benzo (b) fluoranthene	0.0204	0.00500	"	0.0333	61.3	40-140
Benzo (k) fluoranthene	0.0185	0.00500	"	0.0333	55.6	40-140
Chrysene	0.0208	0.00500	"	0.0333	62.4	40-140
Dibenz (a,h) anthracene	0.0243	0.00500	"	0.0333	72.9	40-140
Fluoranthene	0.0211	0.00500	"	0.0333	63.4	40-140
Fluorene	0.0199	0.00500	"	0.0333	59.8	40-140
Indeno (1,2,3-cd) pyrene	0.0248	0.00500	"	0.0333	74.4	40-140
Pyrene	0.0296	0.00500	"	0.0333	88.9	40-140
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	59.7	40-140
2-Methylnaphthalene	0.0201	0.00500	"	0.0333	60.3	40-140
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0203</i>		"	<i>0.0333</i>	<i>61.0</i>	<i>40-140</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0220</i>		"	<i>0.0333</i>	<i>65.9</i>	<i>40-140</i>

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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHK0399 - EPA 5030 Soil MS

Matrix Spike (BHK0399-MS1)	Source: 2411090-01			Prepared: 11/08/24 Analyzed: 11/09/24							
Acenaphthene	0.0173	0.00500	mg/kg	0.0333	ND	52.0	40-140				
Anthracene	0.0181	0.00500	"	0.0333	ND	54.2	40-140				
Benzo (a) anthracene	0.0171	0.00500	"	0.0333	ND	51.4	40-140				
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.2	40-140				
Benzo (b) fluoranthene	0.0136	0.00500	"	0.0333	ND	40.9	40-140				
Benzo (k) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	40-140				
Chrysene	0.0163	0.00500	"	0.0333	ND	49.0	40-140				
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.4	40-140				
Fluoranthene	0.0179	0.00500	"	0.0333	ND	53.7	40-140				
Fluorene	0.0175	0.00500	"	0.0333	ND	52.4	40-140				
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.4	40-140				
Pyrene	0.0185	0.00500	"	0.0333	ND	55.4	40-140				
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.4	40-140				
2-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	40-140				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0172</i>		<i>"</i>	<i>0.0333</i>		<i>51.5</i>	<i>40-140</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0189</i>		<i>"</i>	<i>0.0333</i>		<i>56.8</i>	<i>40-140</i>				

Matrix Spike Dup (BHK0399-MSD1)	Source: 2411090-01			Prepared: 11/08/24 Analyzed: 11/09/24							
Acenaphthene	0.0209	0.00500	mg/kg	0.0333	ND	62.7	40-140	18.8	30		
Anthracene	0.0207	0.00500	"	0.0333	ND	62.0	40-140	13.5	30		
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	ND	62.0	40-140	18.7	30		
Benzo (a) pyrene	0.0190	0.00500	"	0.0333	ND	57.0	40-140	32.1	30		QR-02
Benzo (b) fluoranthene	0.0173	0.00500	"	0.0333	ND	51.9	40-140	23.7	30		
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.0	40-140	2.76	30		
Chrysene	0.0193	0.00500	"	0.0333	ND	58.0	40-140	16.9	30		
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333	ND	59.4	40-140	28.9	30		
Fluoranthene	0.0206	0.00500	"	0.0333	ND	61.8	40-140	14.0	30		
Fluorene	0.0193	0.00500	"	0.0333	ND	58.0	40-140	10.1	30		
Indeno (1,2,3-cd) pyrene	0.0212	0.00500	"	0.0333	ND	63.7	40-140	29.4	30		
Pyrene	0.0357	0.00500	"	0.0333	ND	107	40-140	63.8	30		QR-02
1-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	60.0	40-140	17.3	30		
2-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	60.1	40-140	17.2	30		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0205</i>		<i>"</i>	<i>0.0333</i>		<i>61.6</i>	<i>40-140</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0216</i>		<i>"</i>	<i>0.0333</i>		<i>64.8</i>	<i>40-140</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Watson Facility Resample

Project Number: CO24-131
 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

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 BHK0572 - EPA 3050B

Blank (BHK0572-BLK1)

Prepared: 11/12/24 Analyzed: 11/18/24

Boron ND 2.00 mg/L

LCS (BHK0572-BS1)

Prepared: 11/12/24 Analyzed: 11/18/24

Boron 5.13 2.00 mg/L 5.00 103 80-120

Duplicate (BHK0572-DUP1)

Source: 2411100-01

Prepared: 11/12/24 Analyzed: 11/18/24

Boron 0.813 2.00 mg/L 0.798 1.89 20

Matrix Spike (BHK0572-MS1)

Source: 2411100-01

Prepared: 11/12/24 Analyzed: 11/18/24

Boron 5.71 2.00 mg/L 5.02 0.798 97.9 75-125

Matrix Spike Dup (BHK0572-MSD1)

Source: 2411100-01

Prepared: 11/12/24 Analyzed: 11/18/24

Boron 5.84 2.00 mg/L 5.02 0.798 100 75-125 2.25 25

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PO Box 1289
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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

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 BHK1047 - EPA 3050B

Blank (BHK1047-BLK1)

Prepared: 11/20/24 Analyzed: 11/26/24

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 (BHK1047-BS1)

Prepared: 11/20/24 Analyzed: 11/26/24

Arsenic	40.8	0.200	mg/kg wet	41.0	99.6	80-120
Barium	39.9	0.400	"	41.0	97.3	80-120
Cadmium	2.00	0.200	"	2.05	97.6	80-120
Copper	42.0	0.400	"	41.0	103	80-120
Lead	19.7	0.200	"	20.5	96.2	80-120
Nickel	41.0	0.400	"	41.0	100	80-120
Silver	2.01	0.0200	"	2.05	97.9	80-120
Zinc	43.2	0.400	"	41.0	105	80-120
Selenium	4.11	0.260	"	4.10	100	80-120

Duplicate (BHK1047-DUP1)

Source: 2411101-05

Prepared: 11/20/24 Analyzed: 11/26/24

Arsenic	2.48	0.200	mg/kg dry	3.58	36.1	20	QR-04
Barium	55.8	0.400	"	62.0	10.5	20	
Cadmium	0.158	0.200	"	0.171	7.84	20	
Copper	4.54	0.400	"	4.33	4.64	20	
Lead	4.88	0.200	"	6.20	23.8	20	QR-04
Nickel	3.99	0.400	"	3.43	15.1	20	
Silver	0.0238	0.0200	"	0.0204	15.3	20	
Zinc	15.8	0.400	"	13.7	14.2	20	
Selenium	ND	0.260	"	ND		20	

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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
 Project Manager: Paul Henchan

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 11/27/24 09:58

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 BHK1047 - EPA 3050B

Matrix Spike (BHK1047-MS1)

Source: 2411101-05

Prepared: 11/20/24 Analyzed: 11/26/24

Arsenic	43.6	0.200	mg/kg dry	43.4	3.58	92.3	75-125				
Barium	98.7	0.400	"	43.4	62.0	84.7	75-125				
Cadmium	2.23	0.200	"	2.17	0.171	94.9	75-125				
Copper	34.8	0.400	"	43.4	4.33	70.2	75-125				QM-05
Lead	24.9	0.200	"	21.7	6.20	86.4	75-125				
Nickel	33.9	0.400	"	43.4	3.43	70.2	75-125				QM-05
Silver	4.08	0.0200	"	2.17	0.0204	187	75-125				QM-05
Zinc	47.9	0.400	"	43.4	13.7	78.9	75-125				
Selenium	3.72	0.260	"	4.34	ND	85.8	75-125				

Matrix Spike Dup (BHK1047-MSD1)

Source: 2411101-05

Prepared: 11/20/24 Analyzed: 11/26/24

Arsenic	42.1	0.200	mg/kg dry	42.3	3.58	91.0	75-125	3.52	25		
Barium	101	0.400	"	42.3	62.0	92.2	75-125	2.34	25		
Cadmium	2.18	0.200	"	2.12	0.171	95.1	75-125	2.06	25		
Copper	32.9	0.400	"	42.3	4.33	67.4	75-125	5.57	25		QM-05
Lead	24.5	0.200	"	21.2	6.20	86.5	75-125	1.76	25		
Nickel	32.0	0.400	"	42.3	3.43	67.5	75-125	5.61	25		QM-05
Silver	3.97	0.0200	"	2.12	0.0204	187	75-125	2.75	25		QM-05
Zinc	45.5	0.400	"	42.3	13.7	75.1	75-125	5.11	25		
Selenium	3.48	0.260	"	4.23	ND	82.2	75-125	6.75	25		

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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
Project Manager: Paul Henchan

Reported:
11/27/24 09:58

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 BHK0764 - 3060A Mod

Blank (BHK0764-BLK1)

Prepared: 11/14/24 Analyzed: 11/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHK0764-BS1)

Prepared: 11/14/24 Analyzed: 11/19/24

Chromium, Hexavalent 25.1 0.30 mg/kg wet 25.0 100 80-120

Duplicate (BHK0764-DUP1)

Source: 2411101-01

Prepared: 11/14/24 Analyzed: 11/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHK0764-MS1)

Source: 2411101-01

Prepared: 11/14/24 Analyzed: 11/19/24

Chromium, Hexavalent 28.7 0.30 mg/kg dry 29.4 ND 97.8 75-125

Matrix Spike Dup (BHK0764-MSD1)

Source: 2411101-01

Prepared: 11/14/24 Analyzed: 11/19/24

Chromium, Hexavalent 30.3 0.30 mg/kg dry 29.4 ND 103 75-125 5.37 20

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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

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 BHK0894 - General Preparation

Blank (BHK0894-BLK1)

Prepared: 11/17/24 Analyzed: 11/22/24

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

LCS (BHK0894-BS1)

Prepared: 11/17/24 Analyzed: 11/22/24

Calcium	5.33	0.0500	mg/L wet	5.00		107	70-130			
Magnesium	5.11	0.0500	"	5.00		102	70-130			
Sodium	5.24	0.0500	"	5.00		105	70-130			

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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Watson Facility Resample

Project Number: CO24-131
 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

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 BHK0520 - General Preparation

Duplicate (BHK0520-DUP1)	Source: 2408190-03		Prepared: 11/11/24 Analyzed: 11/13/24	
% Solids	95.4	%	95.2	0.220 20

Summit Scientific

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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

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

Summit Scientific

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

Batch BHK0895 - General Preparation

Blank (BHK0895-BLK1)

Prepared: 11/17/24 Analyzed: 11/21/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHK0895-BS1)

Prepared: 11/17/24 Analyzed: 11/21/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHK0895-DUP1)

Source: 2409466-04

Prepared: 11/17/24 Analyzed: 11/21/24

Specific Conductance (EC) 1.66 0.0100 mmhos/cm 1.68 1.25 20

Summit Scientific

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Project: Chevron - Watson Facility Resample

Project Number: CO24-131
 Project Manager: Paul Henchan

Reported:
 11/27/24 09:58

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 BHK0896 - General Preparation

LCS (BHK0896-BS1)

Prepared: 11/17/24 Analyzed: 11/21/24

pH	9.15		pH Units	9.18		99.7	95-105			
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Duplicate (BHK0896-DUP1)

Source: 2409466-04

Prepared: 11/17/24 Analyzed: 11/21/24

pH	8.82		pH Units	8.83		0.113	20			
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Summit Scientific

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11/27/24 09:58

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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