

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

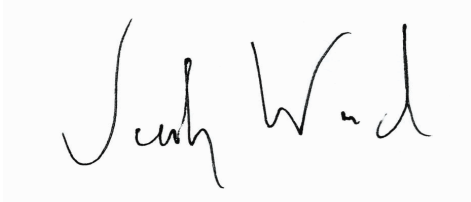
April 23, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Chevron - Howard USX A09-13 Tank Battery
Work Order #2403131

Enclosed are the results of analyses for samples received by Summit Scientific on 03/07/24 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial 'J' and a distinct 'W'.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0.5'	2403131-01	Soil	03/07/24 11:00	03/07/24 16:45
PWV01-B@5'	2403131-02	Soil	03/07/24 11:10	03/07/24 16:45
PWV01-E@2'	2403131-03	Soil	03/07/24 11:20	03/07/24 16:45
SEP01-DL@2'	2403131-04	Soil	03/07/24 11:30	03/07/24 16:45
BKG01@0.5'	2403131-05	Soil	03/07/24 11:40	03/07/24 16:45
BKG01@2'	2403131-06	Soil	03/07/24 11:50	03/07/24 16:45
BKG01@5'	2403131-07	Soil	03/07/24 12:00	03/07/24 16:45
BKG02@0.5'	2403131-08	Soil	03/07/24 12:10	03/07/24 16:45
BKG02@2'	2403131-09	Soil	03/07/24 12:20	03/07/24 16:45
BKG02@5'	2403131-10	Soil	03/07/24 12:30	03/07/24 16:45
BKG03@0.5'	2403131-11	Soil	03/07/24 12:40	03/07/24 16:45
BKG03@2'	2403131-12	Soil	03/07/24 12:50	03/07/24 16:45
BKG03@5'	2403131-13	Soil	03/07/24 13:00	03/07/24 16:45

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4653 Table Mountain Drive
Golden, CO 80403
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Lab ID	Page 1 of 1
2403131	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: CHEVRON	
Address: 8305 6th Street	E-Mail: Fremont Distribution List	Project Name/Location: Howard USX A09-13TB	
City/State/Zip: Wellington, CO, 80549		AFE#: UWRWG-A3602-ABN	
Phone: 603-477-6907	Project Name: Howard USX A09-13TB	PO/Billing Codes:	
Sampler Name: Aaron Otilar	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	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)		SAR, EC, pH, Boron
1	AST01E0.5'	2/17/24	1100	2			X			X			X	X	X	X	X		
2	PW01-BE0.5'		1110																
3	PW01-EP2'		1120																
4	SEP01-DL0.2'		1130																
5	BK01E0.5'		1140	1											X	X			
6	BK01E0.2'		1150																
7	BK01E0.6'		1200																
8	BK02E0.5'		1210																
9	BK02E0.2'		1220																
10	BK02E0.5'		1230																
11	BK03E0.5'		1240																
12	BK03E0.2'		1250																
13	BK03E0.5'		1300																
14																			
15																			

Relinquished by: <i>[Signature]</i>	Date/Time: 3/17/24 1620	Received by: Summit North Office	Date/Time: 3/17/24 1620	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: 52	Date/Time: 3/7/24 1645	Received by: <i>[Signature]</i>	Date/Time: 3/7/24 1645	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 66.1	Corrected Temperature: <i>[Symbol]</i>	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2403131

Client: Fremont Client Project ID: Howard usx A09-13 TB

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

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

Temp (°C) 11.1 Thermometer # []

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ice
If custody seals are present, are they intact? (1)	-			
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		-		
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)		✓		no sample times, no TB
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, H ₂ SO ₄ , NaOH, HNO ₃ , 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

3/7/24

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

AST01@0.5'
2403131-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0279	03/11/24	03/12/24	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: **03/07/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0221	55.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0282	03/11/24	03/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.01	40.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2403131-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0323	03/12/24	03/14/24	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: **03/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Paul Henchan

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AST01@0.5'
2403131-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.32	0.200	mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B
Barium	19.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.05	0.400	"	"	"	"	"	"
Lead	3.01	0.200	"	"	"	"	"	"
Nickel	2.28	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	8.36	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.2	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	6.50	0.0500	"	"	"	"	"	"	
Sodium	2.66	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.128	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Reported:
 04/23/24 14:54

AST01@0.5'
2403131-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.9		%	1	BHC0432	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.222	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Reported:
04/23/24 14:54

PWV01-B@5'
2403131-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0279	03/11/24	03/12/24	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: **03/07/24 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0268	67.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0426	107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0282	03/11/24	03/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	4.55	36.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PWV01-B@5'
2403131-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0323	03/12/24	03/14/24	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: **03/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	48.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PWV01-B@5'
2403131-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.71	0.200	mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	109	0.400	"	"	"	"	"	"	
Cadmium	0.258	0.200	"	"	"	"	"	"	
Copper	19.5	0.400	"	"	"	"	"	"	
Lead	20.4	0.200	"	"	"	"	"	"	
Nickel	5.30	0.400	"	"	"	"	"	"	
Silver	0.0555	0.0200	"	"	"	"	"	"	
Zinc	83.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	58.5	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	10.8	0.0500	"	"	"	"	"	"	
Sodium	7.70	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.243	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
 04/23/24 14:54

PWV01-B@5'
2403131-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.7	%	1	BHC0432	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 11:10**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.153	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

PWV01-E@2'
2403131-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHC0279	03/11/24	03/12/24	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: **03/07/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0248	61.9 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0422	105 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0282	03/11/24	03/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	4.70	37.6 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

PWV01-E@2'
2403131-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0323	03/12/24	03/14/24	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: **03/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0142	42.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

PWV01-E@2'
2403131-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.67	0.200	mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	122	0.400	"	"	"	"	"	"	
Cadmium	0.295	0.200	"	"	"	"	"	"	
Copper	10.2	0.400	"	"	"	"	"	"	
Lead	13.7	0.200	"	"	"	"	"	"	
Nickel	5.95	0.400	"	"	"	"	"	"	
Silver	0.0556	0.0200	"	"	"	"	"	"	
Zinc	33.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	107	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	34.5	0.0500	"	"	"	"	"	"	
Sodium	24.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.516	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
 Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

PWV01-E@2'
2403131-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.5	%	1	BHC0432	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 11:20**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.780	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

SEP01-DL@2'
2403131-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0279	03/11/24	03/12/24	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: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0273	68.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0282	03/11/24	03/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	4.44	35.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

SEP01-DL@2'
2403131-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0323	03/12/24	03/14/24	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: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0134	40.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0166	49.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

SEP01-DL@2'
2403131-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.38	0.200	mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	84.7	0.400	"	"	"	"	"	"	
Cadmium	0.457	0.200	"	"	"	"	"	"	
Copper	5.46	0.400	"	"	"	"	"	"	
Lead	7.19	0.200	"	"	"	"	"	"	
Nickel	8.43	0.400	"	"	"	"	"	"	
Silver	0.0333	0.0200	"	"	"	"	"	"	
Zinc	21.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.4	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	9.53	0.0500	"	"	"	"	"	"	
Sodium	5.73	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.197	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
 Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

SEP01-DL@2'
2403131-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.8	%	1	BHC0432	03/15/24	03/16/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 11:30**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.348	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG01@0.5'
2403131-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.16	0.200	mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	53.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	11.7	0.400	"	"	"	"	"	"	
Lead	6.05	0.200	"	"	"	"	"	"	
Nickel	4.33	0.400	"	"	"	"	"	"	
Silver	0.0305	0.0200	"	"	"	"	"	"	
Zinc	25.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	58.2	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	18.8	0.0500	"	"	"	"	"	"	
Sodium	63.9	0.0500	"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
 Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

BKG01@0.5'
2403131-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.86	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.3		%	1	BHC0432	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.05	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG01@2'
2403131-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	7.23	0.200		mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	21.9	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	4.19	0.400		"	"	"	"	"	"	
Lead	5.55	0.200		"	"	"	"	"	"	
Nickel	4.28	0.400		"	"	"	"	"	"	
Silver	0.0240	0.0200		"	"	"	"	"	"	
Zinc	22.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	20.5	0.0500		mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	16.1	0.0500		"	"	"	"	"	"	
Sodium	56.8	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
 Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

BKG01@2'
2403131-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.28	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.8		%	1	BHC0432	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.475	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG01@5'
2403131-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.06	0.200		mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	51.6	0.400		"	"	"	"	"	"	
Cadmium	0.225	0.200		"	"	"	"	"	"	
Copper	4.35	0.400		"	"	"	"	"	"	
Lead	7.00	0.200		"	"	"	"	"	"	
Nickel	4.90	0.400		"	"	"	"	"	"	
Silver	0.0258	0.0200		"	"	"	"	"	"	
Zinc	24.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	52.4	0.0500		mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	57.3	0.0500		"	"	"	"	"	"	
Sodium	62.9	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
 Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

BKG01@5'
2403131-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.43	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.2		%	1	BHC0432	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.919	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG02@0.5'
2403131-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.64	0.200		mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	94.3	0.400		"	"	"	"	"	"	
Cadmium	0.396	0.200		"	"	"	"	"	"	
Copper	18.6	0.400		"	"	"	"	"	"	
Lead	12.0	0.200		"	"	"	"	"	"	
Nickel	7.36	0.400		"	"	"	"	"	"	
Silver	0.0626	0.0200		"	"	"	"	"	"	
Zinc	38.2	0.400		"	"	"	"	"	"	
Selenium	0.295	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	71.7	0.0500		mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	17.8	0.0500		"	"	"	"	"	"	
Sodium	48.3	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG02@0.5'
2403131-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.32	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.3		%	1	BHC0432	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.780	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG02@2'
2403131-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	11.8	0.200		mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	40.7	0.400		"	"	"	"	"	"	
Cadmium	0.333	0.200		"	"	"	"	"	"	
Copper	5.85	0.400		"	"	"	"	"	"	
Lead	10.8	0.200		"	"	"	"	"	"	
Nickel	5.54	0.400		"	"	"	"	"	"	
Silver	0.0492	0.0200		"	"	"	"	"	"	
Zinc	26.9	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	20.9	0.0500		mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	16.1	0.0500		"	"	"	"	"	"	
Sodium	57.0	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
 Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

BKG02@2'
2403131-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.28	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.4		%	1	BHC0432	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.447	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG02@5'
2403131-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.00	0.200	mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	36.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.84	0.400	"	"	"	"	"	"	
Lead	6.00	0.200	"	"	"	"	"	"	
Nickel	4.54	0.400	"	"	"	"	"	"	
Silver	0.0348	0.0200	"	"	"	"	"	"	
Zinc	23.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	33.4	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	37.4	0.0500	"	"	"	"	"	"	
Sodium	51.5	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

BKG02@5'
2403131-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.45	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BHC0432	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.664	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG03@0.5'
2403131-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.29	0.200	mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	44.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	12.0	0.400	"	"	"	"	"	"	
Lead	5.76	0.200	"	"	"	"	"	"	
Nickel	4.52	0.400	"	"	"	"	"	"	
Silver	0.0345	0.0200	"	"	"	"	"	"	
Zinc	25.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	172	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	31.9	0.0500	"	"	"	"	"	"	
Sodium	41.6	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG03@0.5'
2403131-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.764	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.3		%	1	BHC0432	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.562	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG03@2'
2403131-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	10.3	0.200	mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	29.5	0.400	"	"	"	"	"	"	
Cadmium	0.232	0.200	"	"	"	"	"	"	
Copper	4.85	0.400	"	"	"	"	"	"	
Lead	9.73	0.200	"	"	"	"	"	"	
Nickel	4.87	0.400	"	"	"	"	"	"	
Silver	0.0449	0.0200	"	"	"	"	"	"	
Zinc	26.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	21.8	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	17.1	0.0500	"	"	"	"	"	"	
Sodium	56.8	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG03@2'
2403131-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.21	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.4		%	1	BHC0432	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.456	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG03@5'
2403131-13 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/24 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0510	03/15/24	04/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/24 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.06	0.200	mg/kg dry	1	BHC0680	03/19/24	04/08/24	EPA 6020B	
Barium	28.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.22	0.400	"	"	"	"	"	"	
Lead	6.05	0.200	"	"	"	"	"	"	
Nickel	4.24	0.400	"	"	"	"	"	"	
Silver	0.0289	0.0200	"	"	"	"	"	"	
Zinc	24.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/24 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0611	03/18/24	03/20/24	EPA 7196A	

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

Date Sampled: **03/07/24 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	42.8	0.0500	mg/L dry	1	BHC0843	03/21/24	04/22/24	EPA 6020B	
Magnesium	45.0	0.0500	"	"	"	"	"	"	
Sodium	52.9	0.0500	"	"	"	"	"	"	

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Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

BKG03@5'
2403131-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.35	0.00100	units	1	BHD0807	04/23/24	04/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BHC0432	03/15/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.245	0.0100	mmhos/cm	1	BHC0845	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/07/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BHC0844	03/21/24	03/24/24	EPA 9045D	

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Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

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 BHC0279 - EPA 5030 Soil MS

Blank (BHC0279-BLK1)

Prepared & Analyzed: 03/11/24

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0393		"	0.0400		98.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		97.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400		"	0.0400		100	50-150			

LCS (BHC0279-BS1)

Prepared & Analyzed: 03/11/24

Benzene	0.110	0.0020	mg/kg	0.100		110	70-130			
Toluene	0.125	0.0050	"	0.100		125	70-130			
Ethylbenzene	0.127	0.0050	"	0.100		127	70-130			
m,p-Xylene	0.254	0.010	"	0.200		127	70-130			
o-Xylene	0.122	0.0050	"	0.100		122	70-130			
1,2,4-Trimethylbenzene	0.119	0.0050	"	0.100		119	70-130			
1,3,5-Trimethylbenzene	0.120	0.0050	"	0.100		120	70-130			
Naphthalene	0.119	0.0038	"	0.100		119	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0373		"	0.0400		93.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		98.1	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0402		"	0.0400		100	50-150			

Matrix Spike (BHC0279-MS1)

Source: 2402113-13

Prepared & Analyzed: 03/11/24

Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130			
Toluene	0.117	0.0050	"	0.100	ND	117	70-130			
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130			
m,p-Xylene	0.230	0.010	"	0.200	ND	115	70-130			
o-Xylene	0.111	0.0050	"	0.100	ND	111	70-130			
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0366		"	0.0400		91.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400		99.5	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0404		"	0.0400		101	50-150			

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 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

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 BHC0279 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0279-MSD1)	Source: 2402113-13			Prepared & Analyzed: 03/11/24						
Benzene	0.109	0.0020	mg/kg	0.100	ND	109	70-130	5.18	30	
Toluene	0.125	0.0050	"	0.100	ND	125	70-130	6.36	30	
Ethylbenzene	0.132	0.0050	"	0.100	ND	132	70-130	11.9	30	QM-07
m,p-Xylene	0.256	0.010	"	0.200	ND	128	70-130	10.6	30	
o-Xylene	0.123	0.0050	"	0.100	ND	123	70-130	9.75	30	
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	7.68	30	
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130	9.60	30	
Naphthalene	0.108	0.0038	"	0.100	ND	108	70-130	3.38	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>93.0</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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Project: Chevron - Howard USX A09-13 Tank Battery
 Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

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 BHC0282 - EPA 3550A

Blank (BHC0282-BLK1)

Prepared: 03/11/24 Analyzed: 03/12/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	7.04		"	12.5		56.3		30-150			

LCS (BHC0282-BS1)

Prepared: 03/11/24 Analyzed: 03/12/24

C10-C28 (DRO)	379	50	mg/kg	500		75.9		70-130			
Surrogate: <i>o</i> -Terphenyl	7.48		"	12.5		59.8		30-150			

Matrix Spike (BHC0282-MS1)

Source: 2402113-13

Prepared: 03/11/24 Analyzed: 03/12/24

C10-C28 (DRO)	367	50	mg/kg	500	9.85	71.4		70-130			
Surrogate: <i>o</i> -Terphenyl	4.74		"	12.5		37.9		30-150			

Matrix Spike Dup (BHC0282-MSD1)

Source: 2402113-13

Prepared: 03/11/24 Analyzed: 03/12/24

C10-C28 (DRO)	383	50	mg/kg	500	9.85	74.5		70-130	4.23	20	
Surrogate: <i>o</i> -Terphenyl	4.93		"	12.5		39.4		30-150			

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Project: Chevron - Howard USX A09-13 Tank Battery
Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

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 BHC0323 - EPA 5030 Soil MS

Blank (BHC0323-BLK1)

Prepared: 03/12/24 Analyzed: 03/13/24

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>	0.0277		"	0.0333		83.0	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0332		"	0.0333		99.5	40-150			

LCS (BHC0323-BS1)

Prepared: 03/12/24 Analyzed: 03/13/24

Acenaphthene	0.0334	0.00500	mg/kg	0.0333	100	31-137
Anthracene	0.0323	0.00500	"	0.0333	96.8	30-120
Benzo (a) anthracene	0.0337	0.00500	"	0.0333	101	30-120
Benzo (a) pyrene	0.0287	0.00500	"	0.0333	86.2	30-120
Benzo (b) fluoranthene	0.0350	0.00500	"	0.0333	105	30-120
Benzo (k) fluoranthene	0.0355	0.00500	"	0.0333	107	30-120
Chrysene	0.0340	0.00500	"	0.0333	102	30-120
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333	51.1	30-120
Fluoranthene	0.0342	0.00500	"	0.0333	103	30-120
Fluorene	0.0312	0.00500	"	0.0333	93.6	30-120
Indeno (1,2,3-cd) pyrene	0.0218	0.00500	"	0.0333	65.3	30-120
Pyrene	0.0360	0.00500	"	0.0333	108	35-142
1-Methylnaphthalene	0.0289	0.00500	"	0.0333	86.6	35-142
2-Methylnaphthalene	0.0354	0.00500	"	0.0333	106	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0278		"	0.0333	83.5	40-150
<i>Surrogate: Fluoranthene-d10</i>	0.0340		"	0.0333	102	40-150

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Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

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 BHC0323 - EPA 5030 Soil MS

Matrix Spike (BHC0323-MS1)

Source: 2403128-01

Prepared: 03/12/24 Analyzed: 03/13/24

Acenaphthene	0.0165	0.00500	mg/kg	0.0333	ND	49.5	31-137			
Anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120			
Benzo (a) anthracene	0.0172	0.00500	"	0.0333	ND	51.5	30-120			
Benzo (a) pyrene	0.0147	0.00500	"	0.0333	ND	44.0	30-120			
Benzo (b) fluoranthene	0.0136	0.00500	"	0.0333	ND	40.9	30-120			
Benzo (k) fluoranthene	0.0137	0.00500	"	0.0333	ND	41.1	30-120			
Chrysene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Dibenz (a,h) anthracene	0.0140	0.00500	"	0.0333	ND	42.0	30-120			
Fluoranthene	0.0150	0.00500	"	0.0333	ND	45.0	30-120			
Fluorene	0.0152	0.00500	"	0.0333	ND	45.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.1	30-120			
Pyrene	0.0174	0.00500	"	0.0333	ND	52.3	35-142			
1-Methylnaphthalene	0.0274	0.00500	"	0.0333	ND	82.3	15-130			
2-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0139		"	0.0333		41.7	40-150			
Surrogate: Fluoranthene-d10	0.0138		"	0.0333		41.3	40-150			

Matrix Spike Dup (BHC0323-MSD1)

Source: 2403128-01

Prepared: 03/12/24 Analyzed: 03/13/24

Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	48.9	31-137	1.19	30	
Anthracene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	30.8	30	QR-02
Benzo (a) anthracene	0.0178	0.00500	"	0.0333	ND	53.4	30-120	3.53	30	
Benzo (a) pyrene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	3.57	30	
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	30-120	17.7	30	
Benzo (k) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.4	30-120	14.2	30	
Chrysene	0.0163	0.00500	"	0.0333	ND	48.9	30-120	3.01	30	
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333	ND	40.9	30-120	2.62	30	
Fluoranthene	0.0172	0.00500	"	0.0333	ND	51.6	30-120	13.6	30	
Fluorene	0.0172	0.00500	"	0.0333	ND	51.5	30-120	12.0	30	
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.1	30-120	4.77	30	
Pyrene	0.0178	0.00500	"	0.0333	ND	53.3	35-142	1.82	30	
1-Methylnaphthalene	0.0150	0.00500	"	0.0333	ND	45.0	15-130	58.6	50	QR-02
2-Methylnaphthalene	0.0179	0.00500	"	0.0333	ND	53.6	15-130	6.83	50	
Surrogate: 2-Methylnaphthalene-d10	0.0135		"	0.0333		40.4	40-150			
Surrogate: Fluoranthene-d10	0.0179		"	0.0333		53.7	40-150			

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Fremont Environmental
 PO Box 1289
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Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

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 BHC0510 - EPA 3050B

Blank (BHC0510-BLK1)

Prepared: 03/15/24 Analyzed: 04/04/24

Boron ND 2.00 mg/L

LCS (BHC0510-BS1)

Prepared: 03/15/24 Analyzed: 04/04/24

Boron 4.91 2.00 mg/L 5.00 98.2 80-120

Duplicate (BHC0510-DUP1)

Source: 2403124-06

Prepared: 03/15/24 Analyzed: 04/04/24

Boron 1.71 2.00 mg/L 1.69 1.39 20

Matrix Spike (BHC0510-MS1)

Source: 2403124-06

Prepared: 03/15/24 Analyzed: 04/04/24

Boron 5.96 2.00 mg/L 5.00 1.69 85.3 75-125

Matrix Spike Dup (BHC0510-MSD1)

Source: 2403124-06

Prepared: 03/15/24 Analyzed: 04/04/24

Boron 6.07 2.00 mg/L 5.00 1.69 87.6 75-125 1.96 25

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 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

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 BHC0680 - EPA 3050B

Blank (BHC0680-BLK1)

Prepared: 03/19/24 Analyzed: 04/08/24

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 (BHC0680-BS1)

Prepared: 03/19/24 Analyzed: 04/08/24

Arsenic	36.9	0.200	mg/kg wet	40.0	92.4	80-120
Barium	36.3	0.400	"	40.0	90.6	80-120
Cadmium	1.76	0.200	"	2.00	88.2	80-120
Copper	34.4	0.400	"	40.0	86.0	80-120
Lead	17.4	0.200	"	20.0	86.8	80-120
Nickel	34.1	0.400	"	40.0	85.3	80-120
Silver	1.80	0.0200	"	2.00	90.2	80-120
Zinc	34.5	0.400	"	40.0	86.2	80-120
Selenium	3.71	0.260	"	4.00	92.8	80-120

Duplicate (BHC0680-DUP1)

Source: 2403131-01

Prepared: 03/19/24 Analyzed: 04/08/24

Arsenic	1.19	0.200	mg/kg dry	1.32	10.4	20
Barium	19.5	0.400	"	19.9	2.16	20
Cadmium	0.0829	0.200	"	0.0834	0.496	20
Copper	3.02	0.400	"	3.05	0.950	20
Lead	2.52	0.200	"	3.01	17.8	20
Nickel	2.23	0.400	"	2.28	2.29	20
Silver	0.0124	0.0200	"	0.00990	22.2	20
Zinc	7.84	0.400	"	8.36	6.35	20
Selenium	ND	0.260	"	ND		20

QR-01

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

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 BHC0680 - EPA 3050B

Matrix Spike (BHC0680-MS1)

Source: 2403131-01

Prepared: 03/19/24 Analyzed: 04/08/24

Arsenic	38.0	0.200	mg/kg dry	41.3	1.32	88.9	75-125				
Barium	53.7	0.400	"	41.3	19.9	81.9	75-125				
Cadmium	1.81	0.200	"	2.06	0.0834	83.7	75-125				
Copper	29.9	0.400	"	41.3	3.05	65.0	75-125				QM-07
Lead	19.2	0.200	"	20.6	3.01	78.4	75-125				
Nickel	29.4	0.400	"	41.3	2.28	65.8	75-125				QM-07
Silver	1.70	0.0200	"	2.06	0.00990	82.1	75-125				
Zinc	34.8	0.400	"	41.3	8.36	64.0	75-125				QM-07
Selenium	3.40	0.260	"	4.13	ND	82.3	75-125				

Matrix Spike Dup (BHC0680-MSD1)

Source: 2403131-01

Prepared: 03/19/24 Analyzed: 04/08/24

Arsenic	38.5	0.200	mg/kg dry	41.3	1.32	90.0	75-125	1.19	25		
Barium	54.2	0.400	"	41.3	19.9	83.1	75-125	0.933	25		
Cadmium	1.80	0.200	"	2.06	0.0834	83.1	75-125	0.640	25		
Copper	29.8	0.400	"	41.3	3.05	64.9	75-125	0.144	25		QM-07
Lead	19.4	0.200	"	20.6	3.01	79.4	75-125	1.07	25		
Nickel	29.3	0.400	"	41.3	2.28	65.6	75-125	0.296	25		QM-07
Silver	1.70	0.0200	"	2.06	0.00990	82.0	75-125	0.145	25		
Zinc	35.2	0.400	"	41.3	8.36	65.2	75-125	1.35	25		QM-07
Selenium	3.43	0.260	"	4.13	ND	83.2	75-125	1.11	25		

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 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery
 Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0611 - 3060A Mod

Blank (BHC0611-BLK1)

Prepared: 03/18/24 Analyzed: 03/20/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0611-BS1)

Prepared: 03/18/24 Analyzed: 03/20/24

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHC0611-DUP1)

Source: 2403131-01

Prepared: 03/18/24 Analyzed: 03/20/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0611-MS1)

Source: 2403131-01

Prepared: 03/18/24 Analyzed: 03/20/24

Chromium, Hexavalent 24.7 0.30 mg/kg dry 25.8 ND 95.8 75-125

Matrix Spike Dup (BHC0611-MSD1)

Source: 2403131-01

Prepared: 03/18/24 Analyzed: 03/20/24

Chromium, Hexavalent 24.2 0.30 mg/kg dry 25.8 ND 93.8 75-125 2.11 20

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Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

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 BHC0843 - General Preparation

Blank (BHC0843-BLK1)

Prepared: 03/21/24 Analyzed: 04/22/24

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

LCS (BHC0843-BS1)

Prepared: 03/21/24 Analyzed: 04/22/24

Calcium	5.79	0.0500	mg/L wet	5.00		116	70-130			
Magnesium	4.98	0.0500	"	5.00		99.7	70-130			
Sodium	5.00	0.0500	"	5.00		100	70-130			

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 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

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


Summit Scientific

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

Batch BHC0432 - General Preparation

Duplicate (BHC0432-DUP1)	Source: 2403124-06	Prepared: 03/15/24	Analyzed: 03/16/24
% Solids	77.7	%	75.6
			2.74
			20

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 PO Box 1289
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Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

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 BHC0845 - General Preparation

Blank (BHC0845-BLK1)

Prepared: 03/21/24 Analyzed: 03/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC0845-BS1)

Prepared: 03/21/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.145 0.0100 mmhos/cm 0.150 96.7 95-105

Duplicate (BHC0845-DUP1)

Source: 2403130-01

Prepared: 03/21/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.130 0.0100 mmhos/cm 0.120 7.99 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
 Project Manager: Paul Henchan

Reported:
 04/23/24 14:54

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 BHC0844 - General Preparation

LCS (BHC0844-BS1)

Prepared: 03/21/24 Analyzed: 03/24/24

pH	9.17	pH Units	9.18	99.9	95-105
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Duplicate (BHC0844-DUP1)

Source: 2403130-01

Prepared: 03/21/24 Analyzed: 03/24/24

pH	8.48	pH Units	8.53	0.588	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Howard USX A09-13 Tank Battery

Project Number: UWRWE-A3602-ABN
Project Manager: Paul Henchan

Reported:
04/23/24 14:54

Notes and Definitions

- 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.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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