

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 23, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: PDC - Nelson Tank Battery  
Work Order #2412063

Enclosed are the results of analyses for samples received by Summit Scientific on 12/04/24 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 fluid and cursive, written in a professional style.

Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Nelson Tank Battery

Project Number: CO23-109  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 07:38

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1R	2412063-01	Water	12/04/24 00:00	12/04/24 16:30
MW-6R	2412063-02	Water	12/04/24 00:00	12/04/24 16:30
MW-7R	2412063-03	Water	12/04/24 00:00	12/04/24 16:30
MW-8R	2412063-04	Water	12/04/24 00:00	12/04/24 16:30

Summit Scientific

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		Send Data To:		Send Invoice To:	
ent: Fremont Environmental		Project Manager: Paul Henehan		Company: PDC (Chevron)	
dress: 8305 6th St.		E-Mail: Chevron Dist. List, PDC Dist List, Civitas Dist List, Fremont Dist List, paulH@mikeG,		Project Name/Location:	
y/State/Zip: Wellington, CO		nickL, ethanB, jeffG, chrisL, stanG, aaronO, joshB, jordanS, tammyA, reports@fremontenv.com		AFE#:	
one: 804-423-2008		Project Name: Nelson Tank Battery		PO/Billing Codes:	
npler Name: Jordan Suttles		Project Number: 023-109		Contact: Jason Davidson	

[illegible]

Squashed by: <u>Jordan Butters</u> Date/Time: <u>12/4/24</u> <u>15:30</u>	Received by: <u>52-North Office</u> Date/Time: <u>12/4/24</u> <u>15:30</u>	TAT Business Days Same Day	Field DO Field EC	<b>Notes:</b> Dist. Report to parties circled in the email line(s) only.
Squashed by: <u>52</u> Date/Time: <u>12/4/24</u> <u>1630</u>	Received by: <u>[Signature]</u> Date/Time: <u>12/4/24</u> <u>1630</u>	1 Day 2 Days	Field ORP Field pH	
Squashed by: <u>[Signature]</u> Date/Time: <u>12/4/24</u> <u>1630</u>	Received by: <u>[Signature]</u> Date/Time: <u>12/4/24</u> <u>1630</u>	3 Days Standard	Field Temp. Field Turb.	
Squashed by: <u>[Signature]</u> Date/Time: <u>12/4/24</u> <u>1630</u>	Received by: <u>[Signature]</u> Date/Time: <u>12/4/24</u> <u>1630</u>	Standard	Field Turb.	
Squashed by: <u>[Signature]</u> Date/Time: <u>12/4/24</u> <u>1630</u>	Received by: <u>[Signature]</u> Date/Time: <u>12/4/24</u> <u>1630</u>	Standard	Field Turb.	
Temperature Upon Receipt: <u>46</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #: <u>                    </u>	

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2412063Client: FremontClient Project ID: Nelson Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #: ☐
☐ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air ☐Soil/Solid ☐Water ☒Other ☐

Temp (°C)

4.6

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>None</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>No Time</u>
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Samples don't have project name</u>
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCl</u>
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

12/4/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Nelson Tank Battery  
Project Number: CO23-109  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 07:38

**MW-1R**  
**2412063-01 (Water)**

**Summit Scientific**

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

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BHL0263	12/05/24	12/11/24	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	12.8	95.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	12.8	96.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.8	96.1 %		21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	41.9	0.0600		mg/L	50	BHL0756	12/17/24	12/18/24	EPA 300.0	
Sulfate	646	0.300		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1200	10.0		mg/L	1	BHL0340	12/09/24	12/10/24	SM2540C	

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Project Manager: Paul Henchan

**Reported:**  
12/23/24 07:38

**MW-6R**  
**2412063-02 (Water)**

**Summit Scientific**

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

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHL0263	12/05/24	12/11/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	12.8	96.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	12.9	96.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.8	96.3 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>49.3</b>	0.0600	mg/L	50	BHL0756	12/17/24	12/18/24	EPA 300.0	
Sulfate	<b>648</b>	0.300	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>1270</b>	10.0	mg/L	1	BHL0340	12/09/24	12/10/24	SM2540C	

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Project Manager: Paul Henchan

**Reported:**  
12/23/24 07:38

**MW-7R**  
**2412063-03 (Water)**

**Summit Scientific**

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

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHL0263	12/05/24	12/11/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	12.8	96.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	12.8	95.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.7	95.2 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>39.4</b>	0.0600	mg/L	50	BHL0756	12/17/24	12/18/24	EPA 300.0	
Sulfate	<b>649</b>	0.300	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>1280</b>	10.0	mg/L	1	BHL0340	12/09/24	12/10/24	SM2540C	

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**Reported:**  
12/23/24 07:38

**MW-8R**  
**2412063-04 (Water)**

**Summit Scientific**

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

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BHL0263	12/05/24	12/11/24	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	12.8	95.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	12.9	96.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.8	95.9 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>39.6</b>	0.0600	mg/L	50	BHL0756	12/17/24	12/18/24	EPA 300.0	
Sulfate	<b>660</b>	0.300	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **12/04/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>1240</b>	10.0	mg/L	1	BHL0340	12/09/24	12/10/24	SM2540C	

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Project Number: CO23-109  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 07:38

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

### Summit Scientific

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

#### Batch BHL0263 - EPA 5030 Water MS

##### Blank (BHL0263-BLK1)

Prepared: 12/05/24 Analyzed: 12/10/24

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		93.8	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.6	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.4	21-167			

##### LCS (BHL0263-BS1)

Prepared: 12/05/24 Analyzed: 12/10/24

Benzene	32.2	1.0	ug/l	33.3		96.5	51-132			
Toluene	33.1	1.0	"	33.3		99.3	51-138			
Ethylbenzene	33.2	1.0	"	33.3		99.8	58-146			
m,p-Xylene	69.7	2.0	"	66.7		105	57-144			
o-Xylene	34.4	1.0	"	33.3		103	53-146			
Naphthalene	33.9	1.0	"	33.3		102	70-130			
1,2,4-Trimethylbenzene	34.2	1.0	"	33.3		103	70-130			
1,3,5-Trimethylbenzene	33.5	1.0	"	33.3		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		96.1	23-173			
Surrogate: Toluene-d8	12.9		"	13.3		96.8	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.8	21-167			

##### LCS Dup (BHL0263-BSD1)

Prepared: 12/05/24 Analyzed: 12/10/24

Benzene	33.2	1.0	ug/l	33.3		99.7	51-132	3.30	20	
Toluene	34.3	1.0	"	33.3		103	51-138	3.71	20	
Ethylbenzene	33.8	1.0	"	33.3		101	58-146	1.70	20	
m,p-Xylene	70.3	2.0	"	66.7		106	57-144	0.900	20	
o-Xylene	35.4	1.0	"	33.3		106	53-146	2.69	20	
Naphthalene	35.3	1.0	"	33.3		106	70-130	4.05	20	
1,2,4-Trimethylbenzene	34.5	1.0	"	33.3		104	70-130	0.873	20	
1,3,5-Trimethylbenzene	34.0	1.0	"	33.3		102	70-130	1.33	20	
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		93.6	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.5	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.5	21-167			

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### Anions by EPA Method 300.0 - Quality Control

#### Summit Scientific

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

#### Batch BHL0756 - General Preparation

##### Blank (BHL0756-BLK1)

Prepared: 12/17/24 Analyzed: 12/18/24

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

##### LCS (BHL0756-BS1)

Prepared: 12/17/24 Analyzed: 12/18/24

Chloride	2.99	0.0600	mg/L	3.00	99.6	90-110
Sulfate	15.0	0.300	"	15.0	99.9	90-110

##### Duplicate (BHL0756-DUP1)

Source: 2412063-01

Prepared: 12/17/24 Analyzed: 12/18/24

Chloride	42.3	0.0600	mg/L	41.9	0.950	20
Sulfate	644	0.300	"	646	0.351	20

##### Matrix Spike (BHL0756-MS1)

Source: 2412063-01

Prepared: 12/17/24 Analyzed: 12/18/24

Chloride	188	0.0600	mg/L	150	41.9	97.1	80-120
Sulfate	1370	0.300	"	750	646	96.5	80-120

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Project: PDC - Nelson Tank Battery

Project Number: CO23-109  
Project Manager: Paul Henchan

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12/23/24 07:38

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

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

**Batch BHL0340 - General Preparation**

**Blank (BHL0340-BLK1)**

Prepared: 12/09/24 Analyzed: 12/10/24

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (BHL0340-DUP1)**

**Source: 2412063-01**

Prepared: 12/09/24 Analyzed: 12/10/24

Total Dissolved Solids 1290 10.0 mg/L 1200 7.23 20

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Project Number: CO23-109  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 07:38

### Notes and Definitions

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