

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 02, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Walker Flowline
Work Order #2212022

Enclosed are the results of analyses for samples received by Summit Scientific on 12/01/22 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Walker Flowline

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/02/22 06:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-01	2212022-01	Soil	12/01/22 00:00	12/01/22 17:30

Summit Scientific

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Summit Scientific



4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Client: Fremont Environmental Inc.

Project Manager: Paul Henchan

Address:

E-Mail:

City/State/Zip:

Phone:

Project Name: PDC - WALKER FLOWLINE

Sampler Name: HENCHAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	915-1 metals	Arsenic	BTEXN + TMBs		TDS, Cl, Su		
1	FL-01	12/1/22		2			✓		✓				✓	✓										
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

Relinquished by: <u>Paul Henchan</u>	Date/Time: <u>12/1/22 1730</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/22 1730</u>	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>8.8</u> Samples Intact: <u>Yes</u> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

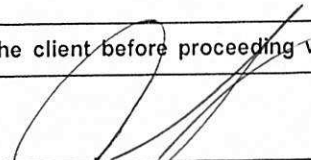
S2 Work Order# 2212022Client: Fremont Client Project ID: PDC-walker FlowlineShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air Soil/Solid Water Other Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	same day
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	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.
Custodian Printed Name12-1-22
Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Walker Flowline

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/02/22 06:37

FL-01
2212022-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.016	0.0020		mg/kg	1	BFL0034	12/01/22	12/01/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	0.0079	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.047	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.023	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	0.012	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0414	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0035	"	12/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/01/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.86	62.8 %		30-150		"	"	"	"	

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Project: PDC - Walker Flowline

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/02/22 06:37

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 BFL0034 - EPA 5030 Soil MS

Blank (BFL0034-BLK1)

Prepared: 12/01/22 Analyzed: 12/02/22

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>	0.0309		"	0.0400		77.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0390		"	0.0400		97.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0352		"	0.0400		88.1	50-150			

LCS (BFL0034-BS1)

Prepared: 12/01/22 Analyzed: 12/02/22

Benzene	0.0681	0.0020	mg/kg	0.0750		90.8	70-130			
Toluene	0.0735	0.0050	"	0.0750		98.0	70-130			
Ethylbenzene	0.0679	0.0050	"	0.0750		90.6	70-130			
m,p-Xylene	0.141	0.010	"	0.150		93.8	70-130			
o-Xylene	0.0713	0.0050	"	0.0750		95.1	70-130			
1,2,4-Trimethylbenzene	0.0740	0.0050	"	0.0750		98.7	70-130			
1,3,5-Trimethylbenzene	0.0728	0.0050	"	0.0750		97.1	70-130			
Naphthalene	0.0950	0.0038	"	0.0750		127	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0335		"	0.0400		83.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0406		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0388		"	0.0400		97.0	50-150			

Matrix Spike (BFL0034-MS1)

Source: 2212017-01

Prepared: 12/01/22 Analyzed: 12/02/22

Benzene	0.0733	0.0020	mg/kg	0.0750	ND	97.8	70-130			
Toluene	0.0779	0.0050	"	0.0750	ND	104	70-130			
Ethylbenzene	0.0695	0.0050	"	0.0750	ND	92.7	70-130			
m,p-Xylene	0.144	0.010	"	0.150	ND	96.1	70-130			
o-Xylene	0.0732	0.0050	"	0.0750	ND	97.6	70-130			
1,2,4-Trimethylbenzene	0.0770	0.0050	"	0.0750	ND	103	70-130			
1,3,5-Trimethylbenzene	0.0741	0.0050	"	0.0750	ND	98.8	70-130			
Naphthalene	0.0881	0.0038	"	0.0750	ND	117	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0340		"	0.0400		85.1	50-150			
<i>Surrogate: Toluene-d8</i>	0.0416		"	0.0400		104	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0410		"	0.0400		102	50-150			

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Project: PDC - Walker Flowline

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 Project Manager: Paul Henchan

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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 BFL0034 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0034-MSD1)	Source: 2212017-01			Prepared: 12/01/22 Analyzed: 12/02/22						
Benzene	0.0683	0.0020	mg/kg	0.0750	ND	91.1	70-130	7.07	30	
Toluene	0.0750	0.0050	"	0.0750	ND	100	70-130	3.81	30	
Ethylbenzene	0.0664	0.0050	"	0.0750	ND	88.6	70-130	4.50	30	
m,p-Xylene	0.139	0.010	"	0.150	ND	92.6	70-130	3.71	30	
o-Xylene	0.0715	0.0050	"	0.0750	ND	95.3	70-130	2.32	30	
1,2,4-Trimethylbenzene	0.0760	0.0050	"	0.0750	ND	101	70-130	1.26	30	
1,3,5-Trimethylbenzene	0.0734	0.0050	"	0.0750	ND	97.9	70-130	0.976	30	
Naphthalene	0.0800	0.0038	"	0.0750	ND	107	70-130	9.64	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0353</i>		<i>"</i>	<i>0.0400</i>		<i>88.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0409</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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Project: PDC - Walker Flowline

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/02/22 06:37

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFL0035 - EPA 3550A

Blank (BFL0035-BLK1)

Prepared: 12/01/22 Analyzed: 12/02/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	14.0		"	12.5		112	30-150			

LCS (BFL0035-BS1)

Prepared: 12/01/22 Analyzed: 12/02/22

C10-C28 (DRO)	446	50	mg/kg	500		89.3	70-130			
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		97.1	30-150			

Matrix Spike (BFL0035-MS1)

Source: 2212017-01

Prepared: 12/01/22 Analyzed: 12/02/22

C10-C28 (DRO)	434	50	mg/kg	500	30.2	80.7	70-130			
Surrogate: <i>o</i> -Terphenyl	11.0		"	12.5		88.2	30-150			

Matrix Spike Dup (BFL0035-MSD1)

Source: 2212017-01

Prepared: 12/01/22 Analyzed: 12/02/22

C10-C28 (DRO)	456	50	mg/kg	500	30.2	85.2	70-130	5.02	20	
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		97.1	30-150			

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Project: PDC - Walker Flowline

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/02/22 06:37

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