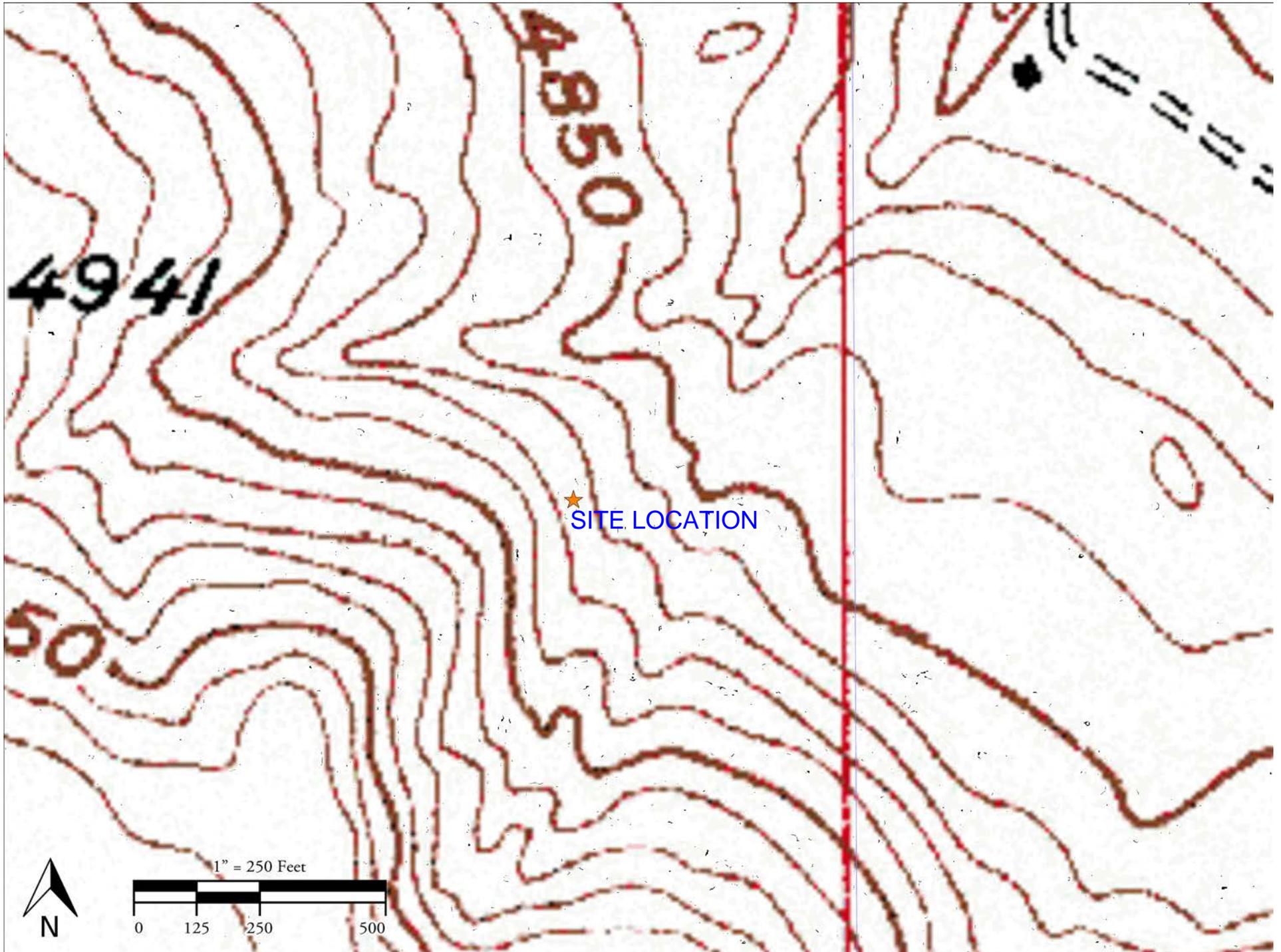


PDC - Rairdance FD Off-Site Tank Pad



# Raindance FD Off-Site Tank Pad

SESE Sec. 30, T6N, R67W  
40.451465, -104.928371  
FAC. # 451100

## Legend

-  Release Extent
-  Soil Sample Location



**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**PDC 69175**  
**RAINDANCE FD OFF-SITE TANK PAD 20-202HXX, WELD COUNTY, COLORADO**  
**REM # NA**

Sample ID	Sample Date	Depth	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
SS-01 1.5Ft	3/22/2024	1.5	40.455640	-104.927758	-	49.8
SS-01 2.5 Ft	3/22/2024	2.5	40.455640	-104.927758	-	19.8
SS-02 2 Ft	3/22/2024	2	40.455717	-104.927817	-	7.5
SS-03 2 Ft	3/22/2024	2	40.455637	-104.927659	-	15.5
SS-04 1 Ft	3/22/2024	1	40.455577	-104.927643	-	8
SS-05 1 Ft	3/22/2024	1	40.455490	-104.927644	-	22.5
SS-06 3 Ft	3/22/2024	3	40.455693	-104.926782	-	4.2
SS-07 2 Ft	3/22/2024	2	40.4557047	-104.92722	-	11.3

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
PDC 69175  
RAINDANCE FD OFF-SITE TANK PAD 20-202HNX, WELD COUNTY, COLORADO  
REM # NA

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
Waste Char.	03/22/2024	Grab	<b>34</b>	<b>160</b>	<b>50</b>	<b>220</b>	<b>69</b>	<b>19</b>	<b>8.4</b>	<b>22038</b>	<b>9000</b>	<b>12000</b>	<b>1300</b>
SS-01 1.5FT	03/22/2024	1.5	<b>0.023</b>	0.046	0.024	0.14	<b>0.11</b>	<b>0.027</b>	<b>0.044</b>	<500	3.3	<50	<50
SS-01 2.5FT	03/22/2024	2.5	<0.0020	0.009	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SS-04 1FT	03/22/2024	1	<0.0020	0.008	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)
  2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
  3. \* Indicates laboratory minimum detection limit in excess of SSL
  4. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg
- NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.  
 = Material excavated and transported off site for disposal.

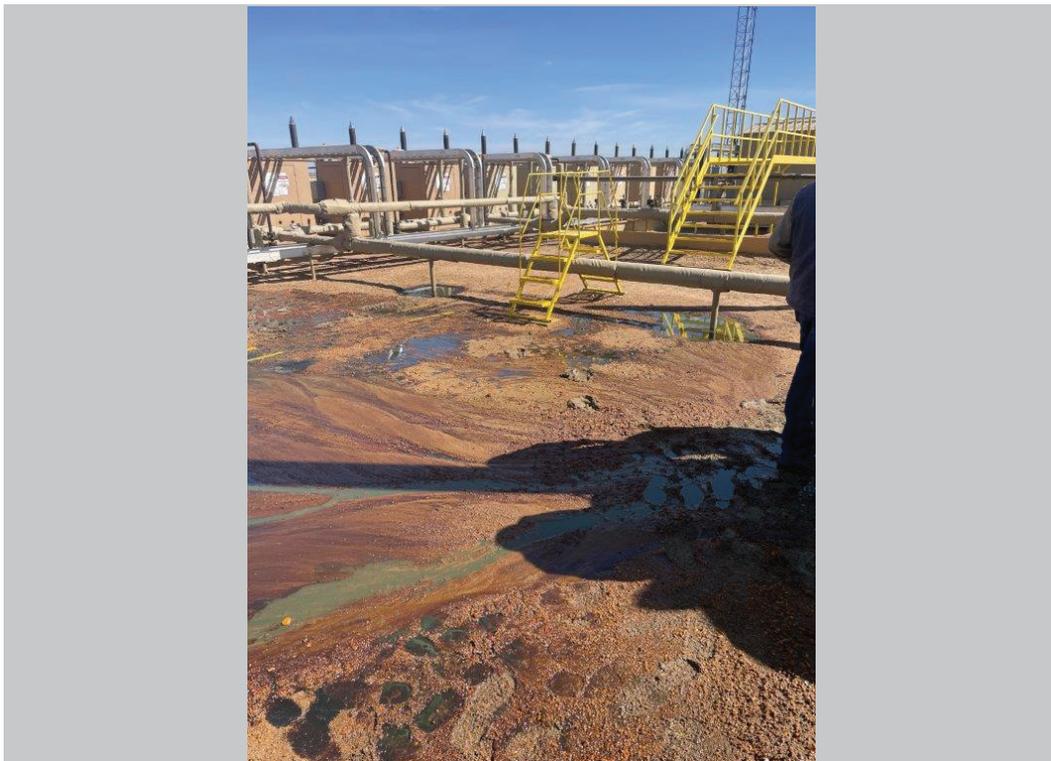
**Photo Log**



**Description:**

1 - Raindance FD Off-Site Tank Pad horizontal treater fire tube release area source, looking N

**Photo Log**



**Description:**

2 - Raindance FD Off-Site Tank Pad horizontal treater fire tube release area source, looking NE

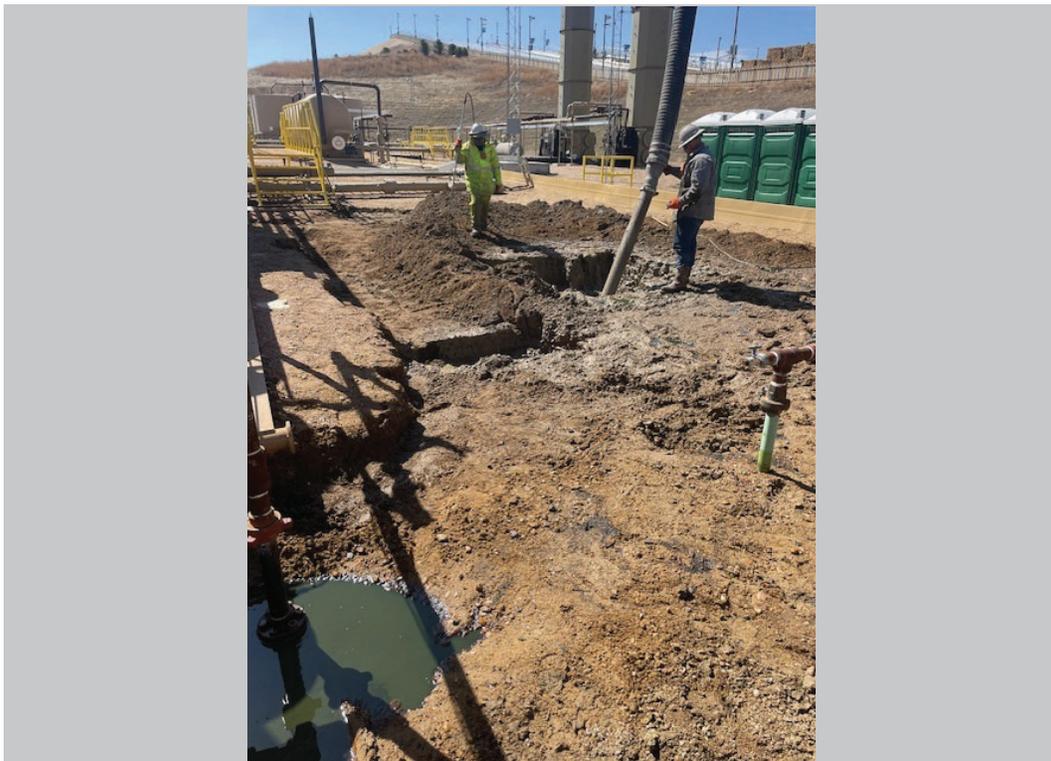
**Photo Log**



**Description:**

3 - Raindance FD Off-Site Tank Pad horizontal treater fire tube release area source, looking NW

**Photo Log**



**Description:**

4 - Raindance FD Off-Site Tank Pad horizontal treater fire tube NW release area extent undergoing removal of impacted soil and standing oil

**Photo Log**



**Description:**

5 - Raindance FD Off-Site Tank Pad horizontal treater fire tube release area, looking E along northern secondary containment wall

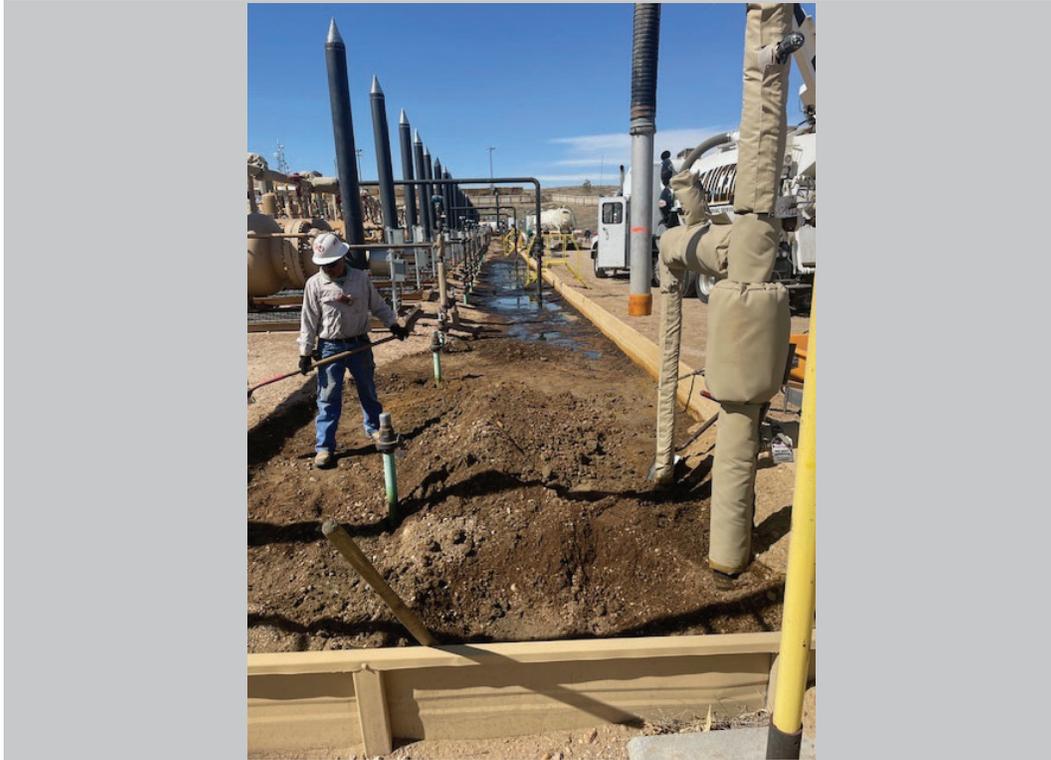
**Photo Log**



**Description:**

6 - Raindance FD Off-Site Tank Pad horizontal treater fire tube release area undergoing removal of standing oil

**Photo Log**



***Description:***

7 - Raindance FD Off-Site Tank Pad horizontal treater fire tube NE release area extent undergoing removal of impacted soil and standing oil

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 25, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: PDC - Merlin Pad  
Work Order #2403354

Enclosed are the results of analyses for samples received by Summit Scientific on 03/22/24 16:45. 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 - Merlin Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/25/24 07:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Waste Char.	2403354-01	Soil	03/22/24 00:00	03/22/24 16:45
SS-01 1.5FT	2403354-02	Soil	03/22/24 00:00	03/22/24 16:45
SS-01 2.5FT	2403354-03	Soil	03/22/24 00:00	03/22/24 16:45
SS-04 1FT	2403354-04	Soil	03/22/24 00:00	03/22/24 16:45

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# SUMMIT SCIENTIFIC

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

Lab ID 2403354 Page 1 of 1

<b>Client:</b> Fremont Environmental, Inc.	<b>Project Manager:</b> Henghan	<b>Company:</b> DCE
<b>Address:</b> 8305 6th St.,	<b>E-Mail:</b> <del>Chewon Dist. List, PDC Dist. List, Civitas Dist. List</del>	<b>Project Name/Location:</b>
<b>City/State/Zip:</b> Wellington, CO, 80549	<del>Fremont Dist. List, Fremont (Weston) (petrol, ethanB, high-magn. chlo-ohdrl. stand. test)</del>	<b>AFE#:</b>
<b>Phone:</b> 603-477-6907	<b>Project Name:</b> PDC - Merlin Pad	<b>PO/Billing Codes:</b>
<b>Sampler Name:</b> Ethan Black	<b>Project Number:</b>	<b>Contact:</b> Jason Davidson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil		Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	
1	Waste Char.	3/22/24		2			X					X	X	X	X	X		
2	SS-01 1.5 FT																	
3	SS-01 2.5 FT																	
4	SS-04 1 FT																	
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>3/22/24 1540</u>	Received by: <u>S2 - North Office</u>	Date/Time: <u>3/22/24 1540</u>	TAT Business Days	Field DO	Notes:
Relinquished by: <u>SL</u>	Date/Time: <u>3/22/24 1645</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/22/24 1645</u>	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date/Time: <u>[Signature]</u>	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>8.4</u>	Corrected Temperature: <u>6</u>	IR gun #: <u>1</u>	HNO3 lot #:	Standard	Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 240 3354

Client: Fremont Client Project ID: POC-Merlin Pad

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

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

Temp (°C) 8.4 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>ON ICE</u>
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same day</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>No sample times</u>
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column - HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>Additional Comments (if any):</u>				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS

Custodian Printed Name

3/22/24  
Date/Time

166



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/25/24 07:08

**Waste Char.**  
**2403354-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	34	0.20	mg/kg	100	BHC0877	03/22/24	03/23/24	EPA 8260B	
Toluene	160	0.50	"	"	"	"	"	"	E
Ethylbenzene	50	0.50	"	"	"	"	"	"	
Xylenes (total)	220	1.0	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	69	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	19	0.50	"	"	"	"	"	"	
Naphthalene	8.4	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	9000	50	"	"	"	"	"	"	E

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0526	131 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0348	87.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0527	132 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	12000	50	mg/kg	1	BHC0878	"	03/22/24	EPA 8015M	
C28-C36 (ORO)	1300	50	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	26.6	213 %	30-150		"	"	"	"	S-02

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/25/24 07:08

**SS-01 1.5FT**  
**2403354-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.023	0.0020	mg/kg	1	BHC0877	03/22/24	03/23/24	EPA 8260B	
Toluene	0.046	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.024	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.14	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.11	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.027	0.0050	"	"	"	"	"	"	
Naphthalene	0.044	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.3	0.50	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0377	94.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0878	"	03/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.26	74.1 %	30-150		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/25/24 07:08

**SS-01 2.5FT**  
**2403354-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0877	03/22/24	03/22/24	EPA 8260B	
<b>Toluene</b>	<b>0.0085</b>	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: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0376	93.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0878	"	03/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.15	57.2 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/25/24 07:08

**SS-04 1FT**  
**2403354-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0877	03/22/24	03/23/24	EPA 8260B	
<b>Toluene</b>	<b>0.0081</b>	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: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0878	"	03/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/22/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.33	74.6 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/25/24 07:08

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

#### Summit Scientific

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

#### Batch BHC0877 - EPA 5030 Soil MS

##### Blank (BHC0877-BLK1)

Prepared: 03/22/24 Analyzed: 03/23/24

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>	0.0372		"	0.0400		92.9	50-150				
<i>Surrogate: Toluene-d8</i>	0.0408		"	0.0400		102	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0409		"	0.0400		102	50-150				

##### LCS (BHC0877-BS1)

Prepared: 03/22/24 Analyzed: 03/23/24

Benzene	0.112	0.0020	mg/kg	0.100		112	70-130				
Toluene	0.105	0.0050	"	0.100		105	70-130				
Ethylbenzene	0.0947	0.0050	"	0.100		94.7	70-130				
m,p-Xylene	0.189	0.010	"	0.200		94.6	70-130				
o-Xylene	0.0916	0.0050	"	0.100		91.6	70-130				
1,2,4-Trimethylbenzene	0.0882	0.0050	"	0.100		88.2	70-130				
1,3,5-Trimethylbenzene	0.0871	0.0050	"	0.100		87.1	70-130				
Naphthalene	0.0721	0.0038	"	0.100		72.1	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0362		"	0.0400		90.4	50-150				
<i>Surrogate: Toluene-d8</i>	0.0410		"	0.0400		102	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0390		"	0.0400		97.4	50-150				

##### Matrix Spike (BHC0877-MS1)

Source: 2403352-01

Prepared: 03/22/24 Analyzed: 03/23/24

Benzene	0.0924	0.0020	mg/kg	0.100	ND	92.4	70-130				
Toluene	0.0850	0.0050	"	0.100	ND	85.0	70-130				
Ethylbenzene	0.0770	0.0050	"	0.100	ND	77.0	70-130				
m,p-Xylene	0.152	0.010	"	0.200	ND	76.1	70-130				
o-Xylene	0.0745	0.0050	"	0.100	ND	74.5	70-130				
1,2,4-Trimethylbenzene	0.0929	0.0050	"	0.100	ND	92.9	70-130				
1,3,5-Trimethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130				
Naphthalene	0.0781	0.0038	"	0.100	ND	78.1	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0364		"	0.0400		91.1	50-150				
<i>Surrogate: Toluene-d8</i>	0.0404		"	0.0400		101	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400		"	0.0400		99.9	50-150				

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Merlin Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/25/24 07:08

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

**Summit Scientific**

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

**Batch BHC0877 - EPA 5030 Soil MS**

Matrix Spike Dup (BHC0877-MSD1)	Source: 2403352-01			Prepared: 03/22/24 Analyzed: 03/23/24							
Benzene	0.104	0.0020	mg/kg	0.100	ND	104	70-130	11.5	30		
Toluene	0.0962	0.0050	"	0.100	ND	96.2	70-130	12.3	30		
Ethylbenzene	0.0851	0.0050	"	0.100	ND	85.1	70-130	10.0	30		
m,p-Xylene	0.168	0.010	"	0.200	ND	83.9	70-130	9.84	30		
o-Xylene	0.0803	0.0050	"	0.100	ND	80.3	70-130	7.56	30		
1,2,4-Trimethylbenzene	0.0983	0.0050	"	0.100	ND	98.3	70-130	5.68	30		
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	4.58	30		
Naphthalene	0.0832	0.0038	"	0.100	ND	83.2	70-130	6.33	30		
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0400		100	50-150				
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150				
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150				

Summit Scientific

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Project: PDC - Merlin Pad

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 03/25/24 07:08

**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 BHC0878 - EPA 3550A**

**Blank (BHC0878-BLK1)**

Prepared: 03/22/24 Analyzed: 03/23/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	15.4		"	12.5		123		30-150			

**LCS (BHC0878-BS1)**

Prepared: 03/22/24 Analyzed: 03/23/24

C10-C28 (DRO)	517	50	mg/kg	500		103		70-130			
Surrogate: <i>o</i> -Terphenyl	13.3		"	12.5		106		30-150			

**Matrix Spike (BHC0878-MS1)**

Source: 2403352-01

Prepared: 03/22/24 Analyzed: 03/23/24

C10-C28 (DRO)	427	50	mg/kg	500	32.0	79.0		70-130			
Surrogate: <i>o</i> -Terphenyl	8.55		"	12.5		68.4		30-150			

**Matrix Spike Dup (BHC0878-MSD1)**

Source: 2403352-01

Prepared: 03/22/24 Analyzed: 03/23/24

C10-C28 (DRO)	384	50	mg/kg	500	32.0	70.4		70-130	10.5	20	
Surrogate: <i>o</i> -Terphenyl	9.10		"	12.5		72.8		30-150			

Summit Scientific

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Project: PDC - Merlin Pad

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
03/25/24 07:08

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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