

FREMONT ENVIRONMENTAL INC.

June 24, 2024

Mr. James Hix
Colorado ECMC OWP
1120 Lincoln Street, Suite 801
Denver, CO 80203

Subject: **Wellhead Closure Data Submittal**
Springdale Storage 1 (OWP)
API # 05-075-05869
NENW Sec. 15, T8N, R53W Meridian 6
Logan County, Colorado
Fremont Project No. C024-113
Remediation # 35022

Dear Mr. Hix:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted wellhead decommissioning sampling activities associated with the Springdale Partners LLC, Springdale Storage 1 (OWP) wellhead. Details of the Springdale Storage 1 (OWP) wellhead abandonment are documented in the attached Closure Report. Groundwater was not encountered.

Inorganic impacts were observed above ECMC's Table 915-1 SSLs at the wellhead in the form of pH, arsenic and barium. Background sample collected from the site also exhibited elevated pH and arsenic. Additional background sampling may be warranted to delineate inorganic exceedances.

The flow line was abandoned in place. Photo documentation is included in the wellhead closure report. Please contact me at (720) 252-7191 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Nick Larimer
Project Manager

Attachments:

- Facility Closure Checklist
- Tables 1-4
- Figures
- Photos
- Laboratory Reports

1759 REDWING LANE, BROOMFIELD, CO 80020
(720) 252-7191 - DIRECT

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number:		Date:						Remediation Project #:	
Associated Wells:		Age of Site:						Number of Photos Attached:	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							Estimated Facility Size (acres):		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)									
USCS Soil Type:				Estimated Depth to Groundwater:					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
Wellhead(s)									
Well API									
Age									
Condition of surface around wellhead									
PID Readings									
Condition of subsurface (staining present)									
PID Readings									
Sample taken?									
Location/Sample ID#									
Photo Number(s)									
Other observations regarding wellheads:									
Summary									
Was impacted soil identified? <div style="display: flex; justify-content: space-around;"> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards </div>									
Total number of samples field screened:				Total number of samples collected:					
Highest PID Reading:				Total number of samples submitted to lab for analysis:					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
Lateral extent:				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation? <div style="display: flex; justify-content: space-around;"> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils </div>									
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:					
Free product observed? Yes No				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									

TABLE 1
FIELD DATA SUMMARY TABLE
COLORADO ENERGY AND CARBON MANAGEMENT COMMISSION (OWP)
SPRINGDALE STORAGE 1 (OWP), LOGAN COUNTY, COLORADO
REM # 35022

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
BKG-4	5/15/2024	4	40.6659134	-103.2891228	0.9	0
E-Wall-4	5/15/2024	4	40.6657788	-103.2893772	0.8	0
N-wall-4	5/15/2024	4	40.6657917	-103.2894018	0.8	0
W-wall-4	5/15/2024	4	40.6657755	-103.2894203	0.9	0
S-wall-4	5/15/2024	4	40.6657628	-103.2894032	NA	0
Floor-7	5/15/2024	7	40.6657778	-103.2894036	0.8	0

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
COLORADO ENERGY AND CARBON MANAGEMENT COMMISSION (OWP)
SPRINGDALE STORAGE 1 (OWP), LOGAN COUNTY, COLORADO
REM # 35022

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**		
FLOOR-7	5/15/2024	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
N-WALL-4	5/15/2024	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<0.50	<50	<50
W-WALL-4	5/15/2024	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.50	<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.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
COLORADO ENERGY AND CARBON MANAGEMENT COMMISSION (OWP)
SPRINGDALE STORAGE 1 (OWP), LOGAN COUNTY, COLORADO
REM # 35022

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FLOOR-7	5/15/2024	7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
N-WALL-4	5/15/2024	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
W-WALL-4	5/15/2024	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

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

NA - Not analyzed

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

= Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
COLORADO ENERGY AND CARBON MANAGEMENT COMMISSION (OWP)
SPRINGDALE STORAGE 1 (OWP), LOGAN COUNTY, COLORADO
REM # 35022

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FLOOR-7	5/15/2024	7	9.02	0.139	0.173	<2.00
N-WALL-4	5/15/2024	4	8.28	0.478	1.12	<2.00
W-WALL-4	5/15/2024	4	9.40	0.226	0.677	<2.00
BKG-4	5/15/2024	4	9.23	0.171	0.0849	<2.00
Maximum Background Concentration			9.23	0.171	0.0849	<2.00
Average Background Concentration			9.23	0.171	0.0849	<2.00

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

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

= Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
COLORADO ENERGY AND CARBON MANAGEMENT COMMISSION (OWP)
SPRINGDALE STORAGE 1 (OWP), LOGAN COUNTY, COLORADO
REM # 35022

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FLOOR-7	5/15/2024	7	1.60	52.0	<0.200	*<0.30	3.19	4.10	3.49	<0.260	<0.0200	14.4
N-WALL-4	5/15/2024	4	2.54	208	0.214	*<0.30	5.77	6.97	6.65	<0.260	0.0289	25.7
W-WALL-4	5/15/2024	4	1.71	42.6	<0.200	*<0.30	2.38	3.29	2.84	<0.260	<0.0200	10.4
BKG-4	5/15/2024	4	1.84	49.6	<0.200	*<0.30	2.62	4.22	3.44	<0.260	<0.0200	11.2
Maximum Background Concentration			1.84	49.6	<0.200	*<0.30	2.62	4.22	3.44	<0.260	<0.0200	11.2
125% Average Background Concentration			2.30	62.0	<0.200	*<0.30	3.28	5.28	4.30	<0.260	<0.0200	14.0

1. Bold values exceed the ECMC Table 915-1 limit(s)

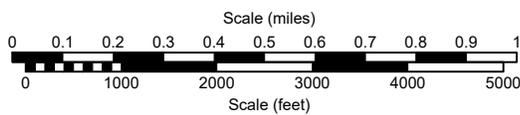
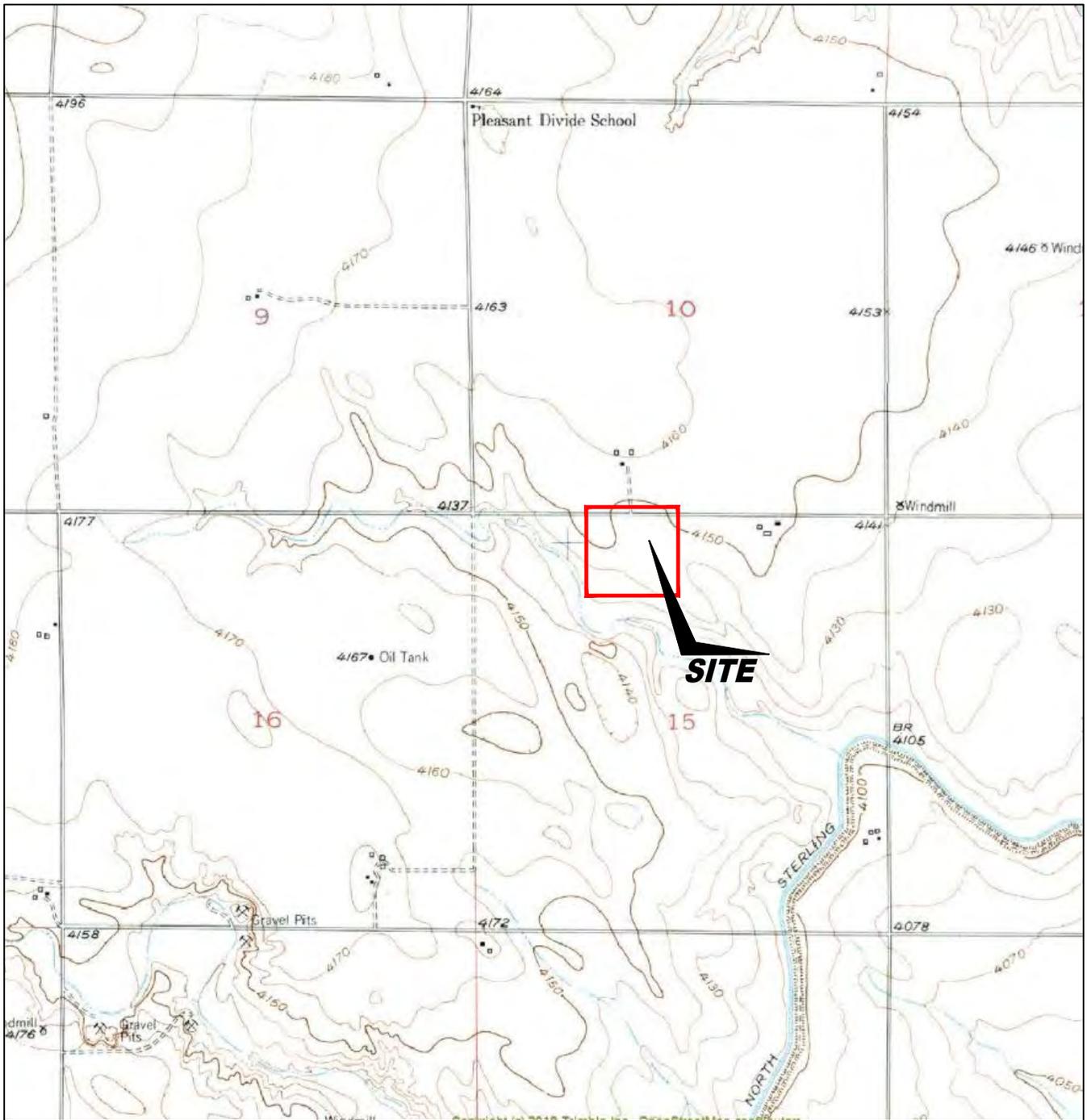
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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

= Material excavated and transported off site for disposal.



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1

SITE LOCATION MAP

**Colorado ECMC OWP
Springdale Storage 1 (OWP)**
NENW Sec.15 , T8N, R53W, 6th PM
Logan County, Colorado
40.665780, °, -103.289400°

Project # C024.113	API # 05-075-05869	Facility #
Date 6/14/24	Remediation # 35022	Filename 24113T





BKG-4 ~ 0 ppm

EXTENT OF EXCAVATION

N Wall-4 ~ 0 ppm

W Wall-4 ~ 0 ppm

E Wall-4 ~ 0 ppm

Floor-7 ~ 0 ppm

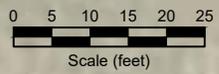
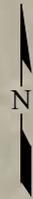
S Wall-4 ~ 0 ppm

3" Riser

4" Riser

2 - 2" Riser

2" Riser



LEGEND

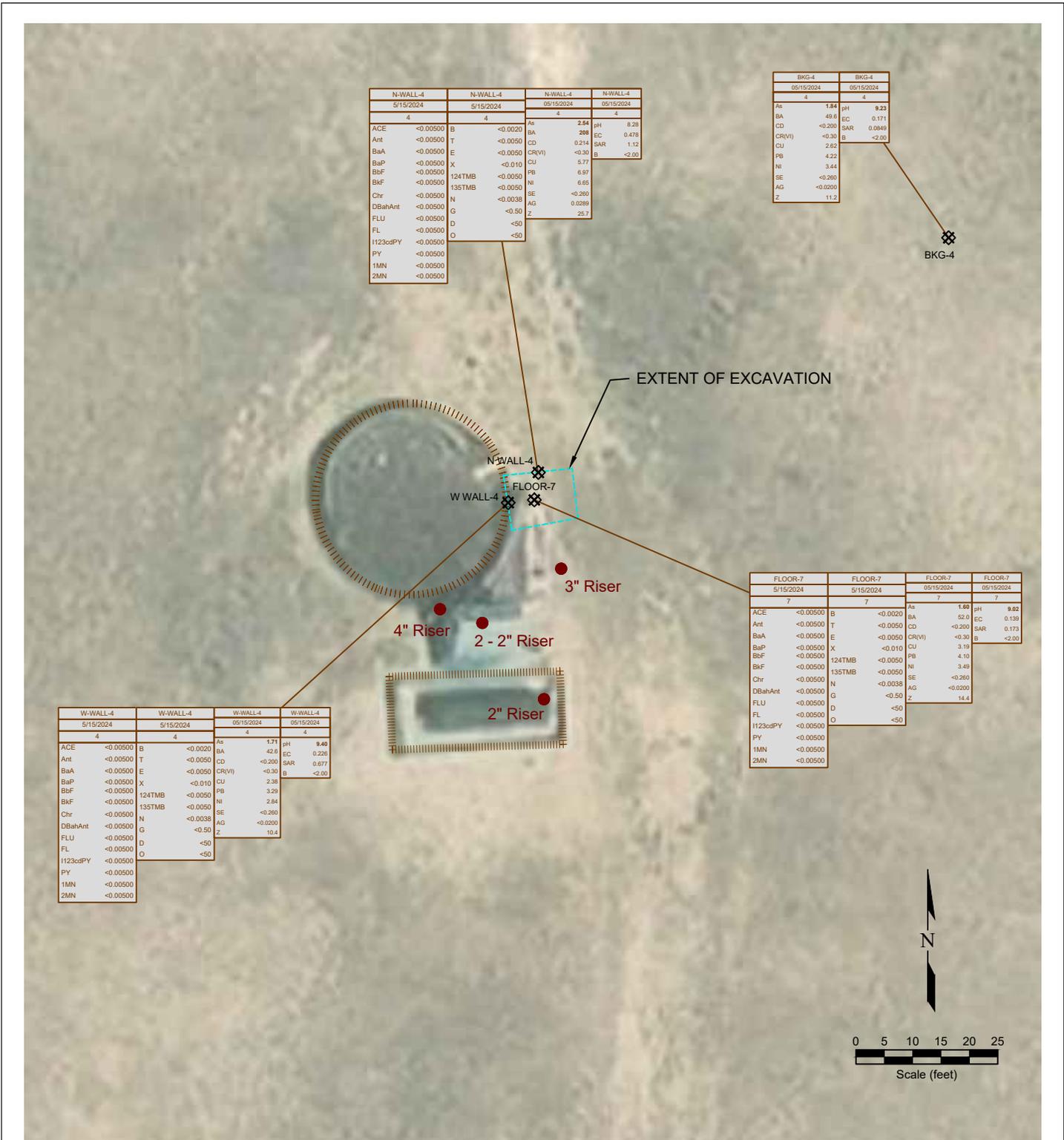
- RISER LOCATION
- ▲ PID READING LOCATION
- ABOVE-GROUND STORAGE TANK
- FORMER FACILITY
- EXTENT OF EXCAVATION
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL

Figure 2
SITE MAP

**Colorado ECMC OWP
Springdale Storage 1 (OWP)**
NENW Sec.15 , T8N, R53W, 6th PM
Logan County, Colorado
40.665780, °, -103.289400°

Project No. C024.113	API # 05-075-05869	Facility #
Date 6/25/24	Remediation # 35022	Filename 24113Q





LEGEND

- RISER LOCATION
- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXTENT OF EXCAVATION
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- NOT ANALYZED

SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
DATE	DATE	DATE	DATE	DATE	DATE
DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH
ACE	<0.00500	ACENAPHTHENE (mg/kg)	As	<0.01	ARSENIC (mg/kg)
Ant	<0.00500	ANTHRACENE (mg/kg)	BaA	<0.01	BARBITAL (mg/kg)
BaA	<0.00500	BENZO (A) ANTHRACENE (mg/kg)	CD	<0.01	CADMIUM (mg/kg)
BaP	<0.00500	BENZO (A) PYRENE (mg/kg)	CR(VI)	<0.05	CHROMIUM (mg/kg)
BbF	<0.00500	BENZO (B) FLUORANTHENE (mg/kg)	CU	<0.01	COPPER (mg/kg)
BkF	<0.00500	BENZO (K) FLUORANTHENE (mg/kg)	EC	<0.05	EC (mmol/cm)
Chr	<0.00500	CHRYSENE (mg/kg)	E	<0.05	LEAD (mg/kg)
DBahAnt	<0.00500	DIBENZ(A,H) ANTHRACENE (mg/kg)	X	<0.010	NICKEL (mg/kg)
FLU	<0.00500	FLUORANTHENE (mg/kg)	124TMB	<0.0050	1,2,4-TRIMETHYLBENZENE (mg/kg)
FL	<0.00500	FLUORENE (mg/kg)	135TMB	<0.0050	1,3,5-TRIMETHYLBENZENE (mg/kg)
1123cdPY	<0.00500	INSENO (1,2,3-CD) PYRENE (mg/kg)	N	<0.0038	NAPHTHALENE (mg/kg)
PY	<0.00500	PYRENE (mg/kg)	G	<0.50	TPH-CRO (mg/kg)
1MN	<0.00500	1-METHYLNAPHTHALENE (mg/kg)	D	<50	TPH-CRO (mg/kg)
2MN	<0.00500	2-METHYLNAPHTHALENE (mg/kg)	O	<50	TPH-CRO (mg/kg)

Figure 3

SOIL CHEMISTRY MAP

Colorado ECMC OWP
Springdale Storage 1 (OWP)
 NENW Sec.15 , T8N, R53W, 6th PM
 Logan County, Colorado
 40.665780, -103.289400°

Project No. C024.113	API # 05-075-05869	Facility #
Date 6/25/24	Remediation # 35022	Filename 24113Q



Description:

Springdale Storage 1 (OWP) Wellhead with sample location - facing southeast



Description:

Springdale Storage 1 (OWP) - facing east with sample locations- no staining or indication of failure



Description:

Springdale Storage 1 Wellhead (OWP) - Facing northwest - note no staining or signs of failure. Flow line abandoned in place.



Description:

Springdale Storage 1 (OWP) - Risers to southwest of wellhead location remained in place at time of cut and cap.

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 11, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Springdale 1 (OWP)
Work Order #2405221

Enclosed are the results of analyses for samples received by Summit Scientific on 05/15/24 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLOOR-7	2405221-01	Soil	05/15/24 00:00	05/15/24 15:20
N-WALL-4	2405221-02	Soil	05/15/24 00:00	05/15/24 15:20
W-WALL-4	2405221-03	Soil	05/15/24 00:00	05/15/24 15:20
BKG-4	2405221-04	Soil	05/15/24 00:00	05/15/24 15:20

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	Page 1 of 1
2405221	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager:	Company: Fremont	
Address: 8305 6th St.	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: <u>SPRINGDALE 1 (COWP)</u>	PO/Billing Codes:	
Sampler Name: <u>NICK</u>	Project Number: <u>CO24-113</u>	Contact:	

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	TDS, Chloride, Sulfate	
1	FLOOR - 7	2/15		2			X			X		X	X	X	X			
2	N-WALL - 4	2/15		3			X			X		X	X	X	X			
3	W-WALL - 4	2/15		3			X			X		X	X	X	X			
4	BKG - 4	2/15		2			X			X		X	X	X	X			
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>5/15/24 6:20</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/15/24 15:20</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>5.7</u>	Corrected Temperature: _____	IR gun #: <u>2</u>	HNO3 lot #: _____	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2405221

Client: Fremont Client Project ID: Spring Dale 1 (OWP)

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

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

Temp (°C) 5.7 Thermometer # 2

	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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Sample fines
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.

J. J. Wald
Custodian Printed Name

5/15/24 15:20
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

FLOOR-7
2405221-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHE0513	05/16/24	05/17/24	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: **05/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0256	64.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHE0518	05/16/24	05/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.6	85.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Springdale 1 (OWP)
Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

FLOOR-7
2405221-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0510	05/16/24	05/16/24	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: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0242	72.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0233	69.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0514	05/16/24	06/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

FLOOR-7
2405221-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.60	0.200	mg/kg dry	1	BHE0535	05/16/24	05/21/24	EPA 6020B	
Barium	52.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.19	0.400	"	"	"	"	"	"	
Lead	4.10	0.200	"	"	"	"	"	"	
Nickel	3.49	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0537	05/16/24	05/16/24	EPA 7196A	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	105	0.0500	mg/L dry	1	BHE0526	05/16/24	05/26/24	EPA 6020B	
Magnesium	10.3	0.0500	"	"	"	"	"	"	
Sodium	6.93	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.173	0.00100	units	1	BHE0826	05/28/24	05/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

FLOOR-7
2405221-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.7		%	1	BHE0529	05/16/24	05/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.139	0.0100	mmhos/cm	1	BHE0528	05/16/24	05/21/24	EPA 120.1	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.02		pH Units	1	BHE0527	05/16/24	05/21/24	EPA 9045D	

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

N-WALL-4
2405221-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHE0513	05/16/24	05/17/24	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: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0288	72.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0518	05/16/24	05/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.40	67.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

N-WALL-4
2405221-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0510	05/16/24	05/16/24	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: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0255	76.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0250	75.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0514	05/16/24	06/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

N-WALL-4
2405221-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.54	0.200	mg/kg dry	1	BHE0535	05/16/24	05/21/24	EPA 6020B
Barium	208	0.400	"	"	"	"	"	"
Cadmium	0.214	0.200	"	"	"	"	"	"
Copper	5.77	0.400	"	"	"	"	"	"
Lead	6.97	0.200	"	"	"	"	"	"
Nickel	6.65	0.400	"	"	"	"	"	"
Silver	0.0289	0.0200	"	"	"	"	"	"
Zinc	25.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 05/15/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0537	05/16/24	05/16/24	EPA 7196A	

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

Date Sampled: 05/15/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.6	0.0500	mg/L dry	1	BHE0526	05/16/24	05/26/24	EPA 6020B	
Magnesium	10.9	0.0500	"	"	"	"	"	"	
Sodium	37.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 05/15/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.12	0.00100	units	1	BHE0826	05/28/24	05/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 05/15/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

N-WALL-4
2405221-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	94.7	%	1	BHE0529	05/16/24	05/16/24	Calculation
----------	------	---	---	---------	----------	----------	-------------

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.478	0.0100	mmhos/cm	1	BHE0528	05/16/24	05/21/24	EPA 120.1	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHE0527	05/16/24	05/21/24	EPA 9045D	

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

W-WALL-4
2405221-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHE0513	05/16/24	05/17/24	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: **05/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0261	65.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHE0518	05/16/24	05/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.6	100 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

W-WALL-4
2405221-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0510	05/16/24	05/16/24	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: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0249	74.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0231	69.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0514	05/16/24	06/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

W-WALL-4
2405221-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.71	0.200	mg/kg dry	1	BHE0535	05/16/24	05/21/24	EPA 6020B
Barium	42.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.38	0.400	"	"	"	"	"	"
Lead	3.29	0.200	"	"	"	"	"	"
Nickel	2.84	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0537	05/16/24	05/16/24	EPA 7196A	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	273	0.0500	mg/L dry	1	BHE0526	05/16/24	05/26/24	EPA 6020B	
Magnesium	21.7	0.0500	"	"	"	"	"	"	
Sodium	43.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.677	0.00100	units	1	BHE0826	05/28/24	05/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

W-WALL-4
2405221-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BHE0529	05/16/24	05/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.226	0.0100	mmhos/cm	1	BHE0528	05/16/24	05/21/24	EPA 120.1	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.40		pH Units	1	BHE0527	05/16/24	05/21/24	EPA 9045D	

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

BKG-4
2405221-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0514	05/16/24	06/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.84	0.200	mg/kg dry	1	BHE0535	05/16/24	05/21/24	EPA 6020B	
Barium	49.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.62	0.400	"	"	"	"	"	"	
Lead	4.22	0.200	"	"	"	"	"	"	
Nickel	3.44	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0537	05/16/24	05/16/24	EPA 7196A	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	110	0.0500	mg/L dry	1	BHE0526	05/16/24	05/26/24	EPA 6020B	
Magnesium	25.4	0.0500	"	"	"	"	"	"	
Sodium	3.80	0.0500	"	"	"	"	"	"	

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

BKG-4
2405221-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0849	0.00100	units	1	BHE0826	05/28/24	05/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.7		%	1	BHE0529	05/16/24	05/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.171	0.0100	mmhos/cm	1	BHE0528	05/16/24	05/21/24	EPA 120.1	

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

Date Sampled: **05/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.23		pH Units	1	BHE0527	05/16/24	05/21/24	EPA 9045D	

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

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 BHE0513 - EPA 5030 Soil MS

Blank (BHE0513-BLK1)

Prepared & Analyzed: 05/16/24

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0300		"	0.0400		75.0	50-150				
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150				
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.3	50-150				

LCS (BHE0513-BS1)

Prepared & Analyzed: 05/16/24

Benzene	0.0991	0.0020	mg/kg	0.100		99.1	70-130				
Toluene	0.126	0.0050	"	0.100		126	70-130				
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130				
m,p-Xylene	0.253	0.010	"	0.200		127	70-130				
o-Xylene	0.123	0.0050	"	0.100		123	70-130				
1,2,4-Trimethylbenzene	0.117	0.0050	"	0.100		117	70-130				
1,3,5-Trimethylbenzene	0.121	0.0050	"	0.100		121	70-130				
Naphthalene	0.0980	0.0038	"	0.100		98.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0279		"	0.0400		69.8	50-150				
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150				
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	50-150				

Matrix Spike (BHE0513-MS1)

Source: 2405210-01

Prepared & Analyzed: 05/16/24

Benzene	0.0927	0.0020	mg/kg	0.100	ND	92.7	70-130				
Toluene	0.113	0.0050	"	0.100	ND	113	70-130				
Ethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130				
m,p-Xylene	0.221	0.010	"	0.200	ND	111	70-130				
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130				
1,2,4-Trimethylbenzene	0.0884	0.0050	"	0.100	ND	88.4	70-130				
1,3,5-Trimethylbenzene	0.0926	0.0050	"	0.100	ND	92.6	70-130				
Naphthalene	0.0747	0.0038	"	0.100	ND	74.7	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0293		"	0.0400		73.4	50-150				
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150				
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.3	50-150				

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHE0513 - EPA 5030 Soil MS

Matrix Spike Dup (BHE0513-MSD1)	Source: 2405210-01			Prepared & Analyzed: 05/16/24						
Benzene	0.111	0.0020	mg/kg	0.100	ND	111	70-130	17.8	30	
Toluene	0.129	0.0050	"	0.100	ND	129	70-130	13.2	30	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	11.2	30	
m,p-Xylene	0.250	0.010	"	0.200	ND	125	70-130	12.1	30	
o-Xylene	0.121	0.0050	"	0.100	ND	121	70-130	13.5	30	
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	14.7	30	
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	13.8	30	
Naphthalene	0.0885	0.0038	"	0.100	ND	88.5	70-130	16.9	30	
Surrogate: 1,2-Dichloroethane-d4	0.0310		"	0.0400		77.4	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	50-150			

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

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 BHE0518 - EPA 3550A

Blank (BHE0518-BLK1)

Prepared: 05/16/24 Analyzed: 05/18/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.1		"	12.5		89.0		30-150			

LCS (BHE0518-BS1)

Prepared: 05/16/24 Analyzed: 05/18/24

C10-C28 (DRO)	422	50	mg/kg	500		84.5		70-130			
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5		117		30-150			

Matrix Spike (BHE0518-MS1)

Source: 2405210-01

Prepared: 05/16/24 Analyzed: 05/18/24

C10-C28 (DRO)	538	50	mg/kg	500	24.3	103		70-130			
Surrogate: <i>o</i> -Terphenyl	10.9		"	12.5		86.9		30-150			

Matrix Spike Dup (BHE0518-MSD1)

Source: 2405210-01

Prepared: 05/16/24 Analyzed: 05/18/24

C10-C28 (DRO)	572	50	mg/kg	500	24.3	110		70-130	6.10	20	
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5		104		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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHE0510 - EPA 5030 Soil MS

Blank (BHE0510-BLK1)

Prepared & Analyzed: 05/16/24

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0382</i>		<i>"</i>	<i>0.0333</i>	<i>115</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0314</i>		<i>"</i>	<i>0.0333</i>	<i>94.3</i>	<i>40-150</i>					

LCS (BHE0510-BS1)

Prepared & Analyzed: 05/16/24

Acenaphthene	0.0353	0.00500	mg/kg	0.0333	106	31-137					
Anthracene	0.0335	0.00500	"	0.0333	101	30-120					
Benzo (a) anthracene	0.0309	0.00500	"	0.0333	92.6	30-120					
Benzo (a) pyrene	0.0348	0.00500	"	0.0333	104	30-120					
Benzo (b) fluoranthene	0.0314	0.00500	"	0.0333	94.2	30-120					
Benzo (k) fluoranthene	0.0275	0.00500	"	0.0333	82.4	30-120					
Chrysene	0.0351	0.00500	"	0.0333	105	30-120					
Dibenz (a,h) anthracene	0.0290	0.00500	"	0.0333	87.0	30-120					
Fluoranthene	0.0280	0.00500	"	0.0333	84.1	30-120					
Fluorene	0.0327	0.00500	"	0.0333	98.0	30-120					
Indeno (1,2,3-cd) pyrene	0.0348	0.00500	"	0.0333	104	30-120					
Pyrene	0.0314	0.00500	"	0.0333	94.2	35-142					
1-Methylnaphthalene	0.0339	0.00500	"	0.0333	102	35-142					
2-Methylnaphthalene	0.0345	0.00500	"	0.0333	104	35-142					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0387</i>		<i>"</i>	<i>0.0333</i>	<i>116</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0308</i>		<i>"</i>	<i>0.0333</i>	<i>92.5</i>	<i>40-150</i>					

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

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 BHE0510 - EPA 5030 Soil MS

Matrix Spike (BHE0510-MS1)	Source: 2405218-01			Prepared & Analyzed: 05/16/24								
Acenaphthene	0.0228	0.00500	mg/kg	0.0333	ND	68.5	31-137					
Anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120					
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	ND	62.1	30-120					
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.7	30-120					
Benzo (b) fluoranthene	0.0210	0.00500	"	0.0333	ND	62.9	30-120					
Benzo (k) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.2	30-120					
Chrysene	0.0230	0.00500	"	0.0333	ND	69.1	30-120					
Dibenz (a,h) anthracene	0.0163	0.00500	"	0.0333	ND	49.0	30-120					
Fluoranthene	0.0197	0.00500	"	0.0333	ND	59.2	30-120					
Fluorene	0.0225	0.00500	"	0.0333	ND	67.4	30-120					
Indeno (1,2,3-cd) pyrene	0.0194	0.00500	"	0.0333	ND	58.2	30-120					
Pyrene	0.0332	0.00500	"	0.0333	ND	99.5	35-142					
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.1	15-130					
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.6	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0253</i>		<i>"</i>	<i>0.0333</i>		<i>75.8</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0225</i>		<i>"</i>	<i>0.0333</i>		<i>67.4</i>	<i>40-150</i>					

Matrix Spike Dup (BHE0510-MSD1)	Source: 2405218-01			Prepared & Analyzed: 05/16/24								
Acenaphthene	0.0201	0.00500	mg/kg	0.0333	ND	60.4	31-137	12.7	30			
Anthracene	0.0189	0.00500	"	0.0333	ND	56.7	30-120	14.3	30			
Benzo (a) anthracene	0.0179	0.00500	"	0.0333	ND	53.8	30-120	14.3	30			
Benzo (a) pyrene	0.0195	0.00500	"	0.0333	ND	58.4	30-120	10.2	30			
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.2	30-120	13.1	30			
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.9	30-120	7.93	30			
Chrysene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	14.5	30			
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333	ND	55.2	30-120	11.9	30			
Fluoranthene	0.0175	0.00500	"	0.0333	ND	52.4	30-120	12.1	30			
Fluorene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	20.6	30			
Indeno (1,2,3-cd) pyrene	0.0231	0.00500	"	0.0333	ND	69.2	30-120	17.3	30			
Pyrene	0.0322	0.00500	"	0.0333	ND	96.6	35-142	2.90	30			
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.1	15-130	14.3	50			
2-Methylnaphthalene	0.0197	0.00500	"	0.0333	ND	59.1	15-130	13.5	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0221</i>		<i>"</i>	<i>0.0333</i>		<i>66.2</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0193</i>		<i>"</i>	<i>0.0333</i>		<i>57.8</i>	<i>40-150</i>					

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BHE0514 - EPA 3050B

Blank (BHE0514-BLK1)

Prepared: 05/16/24 Analyzed: 06/07/24

Boron ND 2.00 mg/L

LCS (BHE0514-BS1)

Prepared: 05/16/24 Analyzed: 06/07/24

Boron 4.88 2.00 mg/L 5.00 97.6 80-120

Duplicate (BHE0514-DUP1)

Source: 2405218-01

Prepared: 05/16/24 Analyzed: 06/07/24

Boron 0.0681 2.00 mg/L 0.0923 30.1 20 QR-01

Matrix Spike (BHE0514-MS1)

Source: 2405218-01

Prepared: 05/16/24 Analyzed: 06/07/24

Boron 5.09 2.00 mg/L 5.04 0.0923 99.1 75-125

Matrix Spike Dup (BHE0514-MSD1)

Source: 2405218-01

Prepared: 05/16/24 Analyzed: 06/08/24

Boron 5.15 2.00 mg/L 5.04 0.0923 100 75-125 1.10 25

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHE0535 - EPA 3050B

Blank (BHE0535-BLK1)

Prepared: 05/16/24 Analyzed: 05/21/24

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 (BHE0535-BS1)

Prepared: 05/16/24 Analyzed: 05/21/24

Arsenic	38.0	0.200	mg/kg wet	40.0	95.0	80-120				
Barium	35.2	0.400	"	40.0	88.1	80-120				
Cadmium	1.82	0.200	"	2.00	90.9	80-120				
Copper	39.9	0.400	"	40.0	99.8	80-120				
Lead	19.0	0.200	"	20.0	94.9	80-120				
Nickel	39.7	0.400	"	40.0	99.3	80-120				
Silver	1.85	0.0200	"	2.00	92.7	80-120				
Zinc	38.9	0.400	"	40.0	97.3	80-120				
Selenium	4.06	0.260	"	4.00	101	80-120				

Duplicate (BHE0535-DUP1)

Source: 2405218-01

Prepared: 05/16/24 Analyzed: 05/21/24

Arsenic	1.24	0.200	mg/kg dry	1.18	4.50	20				
Barium	58.5	0.400	"	46.5	22.8	20				QR-04
Cadmium	0.122	0.200	"	0.0898	30.0	20				QR-01
Copper	3.21	0.400	"	2.75	15.5	20				
Lead	4.80	0.200	"	3.80	23.3	20				QR-04
Nickel	3.89	0.400	"	3.68	5.60	20				
Silver	0.0151	0.0200	"	0.0125	18.4	20				
Zinc	16.9	0.400	"	13.4	23.1	20				QR-04
Selenium	ND	0.260	"	ND		20				

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

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 BHE0535 - EPA 3050B

Matrix Spike (BHE0535-MS1)

Source: 2405218-01

Prepared: 05/16/24 Analyzed: 05/21/24

Arsenic	30.2	0.200	mg/kg dry	41.1	1.18	70.6	75-125				QM-07
Barium	103	0.400	"	41.1	46.5	136	75-125				QM-07
Cadmium	2.09	0.200	"	2.05	0.0898	97.6	75-125				
Copper	43.9	0.400	"	41.1	2.75	100	75-125				
Lead	24.2	0.200	"	20.5	3.80	99.3	75-125				
Nickel	44.7	0.400	"	41.1	3.68	99.9	75-125				
Silver	1.94	0.0200	"	2.05	0.0125	94.0	75-125				
Zinc	56.5	0.400	"	41.1	13.4	105	75-125				
Selenium	3.77	0.260	"	4.11	ND	91.8	75-125				

Matrix Spike Dup (BHE0535-MSD1)

Source: 2405218-01

Prepared: 05/16/24 Analyzed: 05/21/24

Arsenic	30.6	0.200	mg/kg dry	41.1	1.18	71.7	75-125	1.53	25		QM-07
Barium	104	0.400	"	41.1	46.5	139	75-125	1.10	25		QM-07
Cadmium	2.10	0.200	"	2.05	0.0898	97.6	75-125	0.0392	25		
Copper	44.1	0.400	"	41.1	2.75	101	75-125	0.546	25		
Lead	24.2	0.200	"	20.5	3.80	99.3	75-125	0.0459	25		
Nickel	44.6	0.400	"	41.1	3.68	99.7	75-125	0.188	25		
Silver	1.98	0.0200	"	2.05	0.0125	95.7	75-125	1.78	25		
Zinc	56.3	0.400	"	41.1	13.4	104	75-125	0.374	25		
Selenium	3.72	0.260	"	4.11	ND	90.5	75-125	1.40	25		

Post Spike (BHE0535-PS1)

Source: 2405218-01

Prepared: 05/16/24 Analyzed: 05/21/24

Arsenic	84.5		ug/l	100	2.92	81.5	75-125				
Barium	216		"	100	115	101	75-125				
Cadmium	5.46		"	5.00	0.222	105	75-125				
Copper	115		"	100	6.80	108	75-125				
Lead	61.1		"	50.0	9.39	104	75-125				
Nickel	118		"	100	9.09	109	75-125				
Silver	5.24		"	5.00	0.0310	104	75-125				
Zinc	141		"	100	33.1	108	75-125				
Selenium	10.3		"	10.0	0.0990	102	75-125				

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

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 BHE0537 - 3060A Mod

Blank (BHE0537-BLK1)

Prepared & Analyzed: 05/16/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHE0537-BS1)

Prepared & Analyzed: 05/16/24

Chromium, Hexavalent 25.3 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHE0537-DUP1)

Source: 2405218-01

Prepared & Analyzed: 05/16/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHE0537-MS1)

Source: 2405218-01

Prepared & Analyzed: 05/16/24

Chromium, Hexavalent 25.9 0.30 mg/kg dry 26.3 ND 98.6 75-125

Matrix Spike Dup (BHE0537-MSD1)

Source: 2405218-01

Prepared & Analyzed: 05/16/24

Chromium, Hexavalent 25.9 0.30 mg/kg dry 26.3 ND 98.6 75-125 0.00 20

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

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 BHE0526 - General Preparation

Blank (BHE0526-BLK1)

Prepared: 05/16/24 Analyzed: 05/26/24

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

LCS (BHE0526-BS1)

Prepared: 05/16/24 Analyzed: 05/26/24

Calcium	5.72	0.0500	mg/L wet	5.00	114	70-130				
Magnesium	5.22	0.0500	"	5.00	104	70-130				
Sodium	5.54	0.0500	"	5.00	111	70-130				

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

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

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

Batch BHE0529 - General Preparation

Duplicate (BHE0529-DUP1)		Source: 2405218-01			Prepared & Analyzed: 05/16/24					
% Solids	96.8		%		95.1			1.80	20	

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

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

Summit Scientific

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

Batch BHE0528 - General Preparation

Blank (BHE0528-BLK1)

Prepared: 05/16/24 Analyzed: 05/21/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHE0528-BS1)

Prepared: 05/16/24 Analyzed: 05/21/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHE0528-DUP1)

Source: 2405218-01

Prepared: 05/16/24 Analyzed: 05/21/24

Specific Conductance (EC) 0.131 0.0100 mmhos/cm 0.132 0.608 20

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: Springdale 1 (OWP)

Project Number: CO24-113
 Project Manager: Paul Henchan

Reported:
 06/11/24 09:21

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

Summit Scientific

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

Batch BHE0527 - General Preparation

LCS (BHE0527-BS1)

Prepared: 05/16/24 Analyzed: 05/21/24

pH	9.16	pH Units	9.18	99.8	95-105
----	------	----------	------	------	--------

Duplicate (BHE0527-DUP1)

Source: 2405218-01

Prepared: 05/16/24 Analyzed: 05/21/24

pH	8.60	pH Units	8.67	0.811	20
----	------	----------	------	-------	----

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: Springdale 1 (OWP)

Project Number: CO24-113
Project Manager: Paul Henchan

Reported:
06/11/24 09:21

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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