

## **APPENDIX B**

### **LABORATORY DOCUMENTATION**

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 12, 2022

Paul Henehan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: PDC - Phelps  
Work Order #2209466

Enclosed are the results of analyses for samples received by Summit Scientific on 09/22/22 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01	2209466-01	Soil	09/22/22 00:00	09/22/22 17:00
SS-02	2209466-02	Soil	09/22/22 00:00	09/22/22 17:00
SS-03	2209466-03	Soil	09/22/22 00:00	09/22/22 17:00
SS-04	2209466-04	Soil	09/22/22 00:00	09/22/22 17:00
SS-05	2209466-05	Soil	09/22/22 00:00	09/22/22 17:00
SS-06	2209466-06	Soil	09/22/22 00:00	09/22/22 17:00
SS-07	2209466-07	Soil	09/22/22 00:00	09/22/22 17:00
Waste Char.	2209466-08	Soil	09/22/22 00:00	09/22/22 17:00
BG-1	2209466-09	Soil	09/22/22 00:00	09/22/22 17:00

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

S<sub>2</sub>

2209466

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail: PDC GROUP

City/State/Zip:

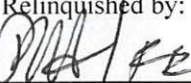
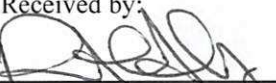
Phone:

Project Name: PDC - PHELPS

Sampler Name: HENEHAN

Project Number: C022-125

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested										Special Instructions	
					HCl	HNO <sub>3</sub>	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	SS-01	9/22/22																						I MAY REQUEST INORGANICS & METALS BASED ON WASTE CHAR. & BG-1. THX.
2	SS-02																							
3	SS-03																							
4	SS-04																							
5	SS-05																							
6	SS-06																							
7	SS-07																							
8	WASTE CHAR.																							
9	BG-1																							
10																								

Relinquished by: 	Date/Time: 9/22/22 1700	Received by: 	Date/Time: 9/22/22 1700	<b>Turn Around Time</b> (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: 8.0 Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Notes:</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order#

2209466

Client: FremontClient Project ID: Bo-Phelps

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

Airbill #:

☐ ☐ ☐ ☐ ☐

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? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	
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"/>	
Additional Comments (if any):				

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

Gustodian Printed Name

Date/Time

9.22.22

19:55



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-01**  
**2209466-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10653	09/26/22	09/28/22	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: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10656	09/26/22	09/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		119 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-01**  
**2209466-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10641	09/26/22	09/27/22	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0180</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0267</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.4 %	40-150		"	"	"	"	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>548</b>	0.0557	mg/L dry	1	BFJ0132	10/06/22	10/10/22	EPA 6020B	
<b>Magnesium</b>	<b>24.9</b>	0.0557	"	"	"	"	"	"	
<b>Sodium</b>	<b>890</b>	0.0557	"	"	"	"	"	"	

**Calculated Analysis**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-01**  
**2209466-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.1	0.00100	units	1	BFJ0296	10/12/22	10/12/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.7		%	1	BFJ0129	10/06/22	10/10/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.89	0.0100	mmhos/cm	1	BFJ0143	10/06/22	10/12/22	EPA 120.1	

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Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-02**  
**2209466-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10653	09/26/22	09/28/22	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: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.7 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10656	09/26/22	09/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		119 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-02**  
**2209466-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10641	09/26/22	09/28/22	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: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		94.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		74.1 %	40-150		"	"	"	"	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	<b>190</b>	0.0585	mg/L dry	1	BFJ0131	10/06/22	10/10/22	EPA 6020B	
Magnesium	<b>15.0</b>	0.0585	"	"	"	"	"	"	
Sodium	<b>527</b>	0.0585	"	"	"	"	"	"	

**Calculated Analysis**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-02**  
**2209466-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.90	0.00100	units	1	BFJ0228	10/10/22	10/10/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	1	BFJ0129	10/06/22	10/10/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.55	0.0100	mmhos/cm	1	BFJ0140	10/06/22	10/11/22	EPA 120.1	

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PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-03**  
**2209466-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.23</b>	0.0020	mg/kg	1	BF10653	09/26/22	09/28/22	EPA 8260B	
<b>Toluene</b>	<b>0.15</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.0075</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.070</b>	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.6</b>	0.50	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10656	09/26/22	09/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		127 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**Reported:**  
10/12/22 11:27

**SS-03**  
**2209466-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10641	09/26/22	09/28/22	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: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		82.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.8 %	40-150		"	"	"	"	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>1460</b>	0.0588	mg/L dry	1	BFJ0131	10/06/22	10/10/22	EPA 6020B	
<b>Magnesium</b>	<b>3.21</b>	0.0588	"	"	"	"	"	"	
<b>Sodium</b>	<b>6840</b>	0.0588	"	"	"	"	"	"	

**Calculated Analysis**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-03**  
**2209466-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	49.2	0.00100	units	1	BFJ0228	10/10/22	10/10/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BFJ0129	10/06/22	10/10/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	34.9	0.0100	mmhos/cm	1	BFJ0140	10/06/22	10/11/22	EPA 120.1	

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PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-04**  
**2209466-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10653	09/26/22	09/28/22	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: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10656	09/26/22	09/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		120 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
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Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-04**  
**2209466-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10641	09/26/22	09/28/22	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: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		84.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.0 %	40-150		"	"	"	"	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>926</b>	0.0582	mg/L dry	1	BFJ0131	10/06/22	10/10/22	EPA 6020B	
<b>Magnesium</b>	<b>73.0</b>	0.0582	"	"	"	"	"	"	
<b>Sodium</b>	<b>3150</b>	0.0582	"	"	"	"	"	"	

**Calculated Analysis**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-04**  
**2209466-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	26.8	0.00100	units	1	BFJ0228	10/10/22	10/10/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.9		%	1	BFJ0129	10/06/22	10/10/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	17.4	0.0100	mmhos/cm	1	BFJ0140	10/06/22	10/11/22	EPA 120.1	

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Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-05**  
**2209466-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10653	09/26/22	09/28/22	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.6</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10656	09/26/22	09/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		129 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-05**  
**2209466-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10641	09/26/22	09/28/22	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	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00533</b>	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0486</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0747</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		40.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		42.7 %	40-150		"	"	"	"	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>521</b>	0.0555	mg/L dry	1	BFJ0131	10/06/22	10/10/22	EPA 6020B	
<b>Magnesium</b>	<b>52.1</b>	0.0555	"	"	"	"	"	"	
<b>Sodium</b>	<b>4230</b>	0.0555	"	"	"	"	"	"	

**Calculated Analysis**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-05**  
**2209466-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	47.3	0.00100	units	1	BFJ0228	10/10/22	10/10/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.0		%	1	BFJ0129	10/06/22	10/10/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	20.4	0.0100	mmhos/cm	1	BFJ0140	10/06/22	10/11/22	EPA 120.1	

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PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-06**  
**2209466-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10653	09/26/22	09/28/22	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: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10656	09/26/22	09/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-06**  
**2209466-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10641	09/26/22	09/28/22	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: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		93.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.2 %	40-150		"	"	"	"	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>762</b>	0.0565	mg/L dry	1	BFJ0131	10/06/22	10/10/22	EPA 6020B	
<b>Magnesium</b>	<b>55.6</b>	0.0565	"	"	"	"	"	"	
<b>Sodium</b>	<b>2620</b>	0.0565	"	"	"	"	"	"	

**Calculated Analysis**

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Fremont Environmental  
PO Box 1289  
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Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-06**  
**2209466-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	24.7	0.00100	units	1	BFJ0228	10/10/22	10/10/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.5		%	1	BFJ0129	10/06/22	10/10/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	14.7	0.0100	mmhos/cm	1	BFJ0140	10/06/22	10/11/22	EPA 120.1	

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Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-07**  
**2209466-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10653	09/26/22	09/28/22	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: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10656	09/26/22	09/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		124 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-07**  
**2209466-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10641	09/26/22	09/28/22	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: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		85.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.7 %	40-150		"	"	"	"	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>287</b>	0.0584	mg/L dry	1	BFJ0131	10/06/22	10/10/22	EPA 6020B	
<b>Magnesium</b>	<b>27.8</b>	0.0584	"	"	"	"	"	"	
<b>Sodium</b>	<b>1320</b>	0.0584	"	"	"	"	"	"	

**Calculated Analysis**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**SS-07**  
**2209466-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	19.9	0.00100	units	1	BFJ0228	10/10/22	10/10/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BFJ0129	10/06/22	10/10/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.21	0.0100	mmhos/cm	1	BFJ0140	10/06/22	10/11/22	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**Waste Char.**  
**2209466-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	25	0.20	mg/kg	100	BF10653	09/26/22	09/28/22	EPA 8260B	
Toluene	97	5.0	"	1000	"	"	"	"	
Ethylbenzene	35	0.50	"	100	"	"	"	"	
Xylenes (total)	200	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	82	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	26	0.50	"	"	"	"	"	"	
Naphthalene	7.3	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6500	500	"	1000	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		131 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		77.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		157 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	13000	50	mg/kg	1	BF10656	09/26/22	09/27/22	EPA 8015M	
C28-C36 (ORO)	1200	50	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		910 %	30-150		"	"	"	"	S-02

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**Waste Char.**  
**2209466-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BF10641	09/26/22	09/28/22	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.365</b>	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>1.04</b>	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	ND	1.25	"	250	"	"	09/28/22	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	10	"	"	09/28/22	"	
<b>Pyrene</b>	<b>0.493</b>	0.0500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>40.9</b>	1.25	"	250	"	"	09/28/22	"	
<b>2-Methylnaphthalene</b>	<b>65.2</b>	1.25	"	"	"	"	"	"	

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.0 %	40-150		"	"	09/28/22	"	
Surrogate: Fluoranthene-d10		54.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>1.85</b>	0.0100	mg/L	1	BF10757	09/29/22	10/04/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **09/22/22 00:00**

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

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**Waste Char.**  
**2209466-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.626	0.222	mg/kg dry	1	BF10716	09/28/22	10/03/22	EPA 6020B
Barium	38.0	0.445	"	"	"	"	"	"
Cadmium	ND	0.222	"	"	"	"	"	"
Copper	2.71	0.445	"	"	"	"	"	"
Lead	1.07	0.222	"	"	"	"	"	"
Nickel	1.91	0.445	"	"	"	"	"	"
Selenium	0.331	0.289	"	"	"	"	"	"
Silver	ND	0.0222	"	"	"	"	"	"
Zinc	9.34	0.445	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0092	10/05/22	10/05/22	EPA 7196A	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	635	0.0556	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B	
Magnesium	30.9	0.0556	"	"	"	"	"	"	
Sodium	3820	0.0556	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	40.2	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**Waste Char.**  
**2209466-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BF10763	09/30/22	09/30/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	20.7	0.0100	mmhos/cm	1	BF10771	09/29/22	09/30/22	EPA 120.1	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BF10772	09/29/22	10/06/22	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**BG-1**  
**2209466-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Boron</b>	<b>0.107</b>	0.0100	mg/L	1	BF10757	09/29/22	10/04/22	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Arsenic</b>	<b>0.386</b>	0.222	mg/kg dry	1	BF10716	09/28/22	10/03/22	EPA 6020B	
<b>Barium</b>	<b>20.5</b>	0.444	"	"	"	"	"	"	
Cadmium	ND	0.222	"	"	"	"	"	"	
<b>Copper</b>	<b>3.07</b>	0.444	"	"	"	"	"	"	
<b>Lead</b>	<b>8.39</b>	0.222	"	"	"	"	"	"	
<b>Nickel</b>	<b>1.80</b>	0.444	"	"	"	"	"	"	
<b>Selenium</b>	<b>6.39</b>	0.289	"	"	"	"	"	"	
Silver	ND	0.0222	"	"	"	"	"	"	
<b>Zinc</b>	<b>14.4</b>	0.444	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0092	10/05/22	10/05/22	EPA 7196A	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Calcium</b>	<b>30.4</b>	0.0555	mg/L dry	1	BF10769	09/29/22	10/05/22	EPA 6020B	
<b>Magnesium</b>	<b>2.97</b>	0.0555	"	"	"	"	"	"	
<b>Sodium</b>	<b>4.16</b>	0.0555	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**BG-1**  
**2209466-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.193</b>	0.00100	units	1	BFJ0107	10/05/22	10/05/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>90.0</b>		%	1	BFJ0763	09/30/22	09/30/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.204</b>	0.0100	mmhos/cm	1	BFJ0771	09/29/22	09/30/22	EPA 120.1	

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

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.01</b>		pH Units	1	BFJ0772	09/29/22	10/06/22	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

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

### Summit Scientific

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

#### Batch BFI0653 - EPA 5030 Soil MS

##### Blank (BFI0653-BLK1)

Prepared & Analyzed: 09/26/22

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

##### LCS (BFI0653-BS1)

Prepared & Analyzed: 09/26/22

Benzene	0.158	0.0020	mg/kg	0.150		106	70-130			
Toluene	0.158	0.0050	"	0.150		106	70-130			
Ethylbenzene	0.165	0.0050	"	0.150		110	70-130			
m,p-Xylene	0.338	0.010	"	0.300		113	70-130			
o-Xylene	0.159	0.0050	"	0.150		106	70-130			
1,2,4-Trimethylbenzene	0.173	0.0050	"	0.150		115	70-130			
1,3,5-Trimethylbenzene	0.171	0.0050	"	0.150		114	70-130			
Naphthalene	0.185	0.0038	"	0.150		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0423		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	50-150			

##### Matrix Spike (BFI0653-MS1)

Source: 2209416-01

Prepared & Analyzed: 09/26/22

Benzene	0.139	0.0020	mg/kg	0.150	ND	92.9	70-130			
Toluene	0.140	0.0050	"	0.150	ND	93.1	70-130			
Ethylbenzene	0.149	0.0050	"	0.150	ND	99.5	70-130			
m,p-Xylene	0.302	0.010	"	0.300	ND	101	70-130			
o-Xylene	0.144	0.0050	"	0.150	ND	95.7	70-130			
1,2,4-Trimethylbenzene	0.154	0.0050	"	0.150	ND	103	70-130			
1,3,5-Trimethylbenzene	0.154	0.0050	"	0.150	ND	102	70-130			
Naphthalene	0.179	0.0038	"	0.150	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.7	50-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

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

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

**Batch BFI0653 - EPA 5030 Soil MS**

Matrix Spike Dup (BFI0653-MSD1)		Source: 2209416-01			Prepared & Analyzed: 09/26/22					
Benzene	0.140	0.0020	mg/kg	0.150	ND	93.3	70-130	0.365	30	
Toluene	0.141	0.0050	"	0.150	ND	94.0	70-130	1.00	30	
Ethylbenzene	0.150	0.0050	"	0.150	ND	100	70-130	0.661	30	
m,p-Xylene	0.304	0.010	"	0.300	ND	101	70-130	0.584	30	
o-Xylene	0.146	0.0050	"	0.150	ND	97.4	70-130	1.70	30	
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.150	ND	104	70-130	1.22	30	
1,3,5-Trimethylbenzene	0.154	0.0050	"	0.150	ND	103	70-130	0.176	30	
Naphthalene	0.178	0.0038	"	0.150	ND	119	70-130	0.639	30	
Surrogate: 1,2-Dichloroethane-d4		0.0422	"	0.0400		106	50-150			
Surrogate: Toluene-d8		0.0396	"	0.0400		98.9	50-150			
Surrogate: 4-Bromofluorobenzene		0.0388	"	0.0400		97.0	50-150			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFI0656 - EPA 3550A**

**Blank (BFI0656-BLK1)**

Prepared: 09/26/22 Analyzed: 09/27/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFI0656-BS1)**

Prepared: 09/26/22 Analyzed: 09/27/22

C10-C28 (DRO)	531	50	mg/kg	500	106	70-130
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**Matrix Spike (BFI0656-MS1)**

Source: 2209416-01

Prepared: 09/26/22 Analyzed: 09/27/22

C10-C28 (DRO)	494	50	mg/kg	500	12.1	96.4	70-130
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**Matrix Spike Dup (BFI0656-MSD1)**

Source: 2209416-01

Prepared: 09/26/22 Analyzed: 09/27/22

C10-C28 (DRO)	496	50	mg/kg	500	12.1	96.7	70-130	0.239	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFI0641 - EPA 5030 Soil MS**

**Blank (BFI0641-BLK1)**

Prepared: 09/26/22 Analyzed: 09/27/22

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	"								
Surrogate: 2-Methylnaphthalene-d10	0.0393		"	0.0333		118		40-150			
Surrogate: Fluoranthene-d10	0.0332		"	0.0333		99.6		40-150			

**LCS (BFI0641-BS1)**

Prepared: 09/26/22 Analyzed: 09/27/22

Acenaphthene	0.0259	0.00500	mg/kg	0.0333		77.7		31-137			
Anthracene	0.0310	0.00500	"	0.0333		92.9		30-120			
Benzo (a) anthracene	0.0292	0.00500	"	0.0333		87.7		30-120			
Benzo (a) pyrene	0.0333	0.00500	"	0.0333		100		30-120			
Benzo (b) fluoranthene	0.0352	0.00500	"	0.0333		106		30-120			
Benzo (k) fluoranthene	0.0347	0.00500	"	0.0333		104		30-120			
Chrysene	0.0230	0.00500	"	0.0333		69.1		30-120			
Dibenz (a,h) anthracene	0.0318	0.00500	"	0.0333		95.5		30-120			
Fluoranthene	0.0347	0.00500	"	0.0333		104		30-120			
Fluorene	0.0146	0.00500	"	0.0333		43.9		30-120			
Indeno (1,2,3-cd) pyrene	0.0338	0.00500	"	0.0333		101		30-120			
Pyrene	0.0298	0.00500	"	0.0333		89.4		35-142			
1-Methylnaphthalene	0.0345	0.00500	"	0.0333		103		35-142			
2-Methylnaphthalene	0.0328	0.00500	"	0.0333		98.4		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0347		"	0.0333		104		40-150			
Surrogate: Fluoranthene-d10	0.0409		"	0.0333		123		40-150			

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PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

### PAH by EPA Method 8270D SIM - Quality Control

#### Summit Scientific

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

#### Batch BFI0641 - EPA 5030 Soil MS

##### Matrix Spike (BFI0641-MS1)

Source: 2209438-01

Prepared: 09/26/22 Analyzed: 09/27/22

Acenaphthene	0.0170	0.00500	mg/kg	0.0333	ND	50.8	31-137		
Anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120		
Benzo (a) anthracene	0.0223	0.00500	"	0.0333	ND	66.8	30-120		
Benzo (a) pyrene	0.0249	0.00500	"	0.0333	ND	74.6	30-120		
Benzo (b) fluoranthene	0.0264	0.00500	"	0.0333	ND	79.3	30-120		
Benzo (k) fluoranthene	0.0260	0.00500	"	0.0333	ND	78.1	30-120		
Chrysene	0.0174	0.00500	"	0.0333	ND	52.3	30-120		
Dibenz (a,h) anthracene	0.0231	0.00500	"	0.0333	ND	69.4	30-120		
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.7	30-120		
Fluorene	0.0175	0.00500	"	0.0333	ND	52.5	30-120		
Indeno (1,2,3-cd) pyrene	0.0248	0.00500	"	0.0333	ND	74.5	30-120		
Pyrene	0.0208	0.00500	"	0.0333	ND	62.4	35-142		
1-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.2	15-130		
2-Methylnaphthalene	0.0202	0.00500	"	0.0333	ND	60.7	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0220		"	0.0333		66.0	40-150		
Surrogate: Fluoranthene-d10	0.0257		"	0.0333		77.2	40-150		

##### Matrix Spike Dup (BFI0641-MSD1)

Source: 2209438-01

Prepared: 09/26/22 Analyzed: 09/27/22

Acenaphthene	0.0181	0.00500	mg/kg	0.0333	ND	54.2	31-137	6.38	30
Anthracene	0.0201	0.00500	"	0.0333	ND	60.3	30-120	0.392	30
Benzo (a) anthracene	0.0223	0.00500	"	0.0333	ND	66.9	30-120	0.135	30
Benzo (a) pyrene	0.0248	0.00500	"	0.0333	ND	74.4	30-120	0.313	30
Benzo (b) fluoranthene	0.0259	0.00500	"	0.0333	ND	77.8	30-120	1.94	30
Benzo (k) fluoranthene	0.0252	0.00500	"	0.0333	ND	75.6	30-120	3.28	30
Chrysene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	0.307	30
Dibenz (a,h) anthracene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	1.90	30
Fluoranthene	0.0234	0.00500	"	0.0333	ND	70.3	30-120	3.70	30
Fluorene	0.0184	0.00500	"	0.0333	ND	55.3	30-120	5.28	30
Indeno (1,2,3-cd) pyrene	0.0243	0.00500	"	0.0333	ND	73.0	30-120	2.06	30
Pyrene	0.0215	0.00500	"	0.0333	ND	64.5	35-142	3.25	30
1-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.6	15-130	2.15	50
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.3	15-130	4.16	50
Surrogate: 2-Methylnaphthalene-d10	0.0228		"	0.0333		68.4	40-150		
Surrogate: Fluoranthene-d10	0.0270		"	0.0333		80.9	40-150		

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

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

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

**Batch BFI0757 - EPA 3050B**

**Blank (BFI0757-BLK1)**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron ND 0.0100 mg/L

**LCS (BFI0757-BS1)**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.37 0.0100 mg/L 5.00 107 80-120

**Duplicate (BFI0757-DUP1)**

**Source: 2209456-01**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 0.325 0.0100 mg/L 0.330 1.31 20

**Matrix Spike (BFI0757-MS1)**

**Source: 2209456-01**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.69 0.0100 mg/L 5.00 0.330 107 75-125

**Matrix Spike Dup (BFI0757-MSD1)**

**Source: 2209456-01**

Prepared: 09/29/22 Analyzed: 10/04/22

Boron 5.88 0.0100 mg/L 5.00 0.330 111 75-125 3.21 25

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0716 - EPA 3050B**

**Blank (BFI0716-BLK1)**

Prepared: 09/28/22 Analyzed: 10/03/22

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BFI0716-BS1)**

Prepared: 09/28/22 Analyzed: 10/03/22

Arsenic	43.5	0.200	mg/kg wet	40.0	109	80-120
Barium	42.0	0.400	"	40.0	105	80-120
Cadmium	2.17	0.200	"	2.00	109	80-120
Copper	41.3	0.400	"	40.0	103	80-120
Lead	21.3	0.200	"	20.0	107	80-120
Nickel	40.8	0.400	"	40.0	102	80-120
Selenium	4.41	0.260	"	4.00	110	80-120
Silver	2.15	0.0200	"	2.00	107	80-120
Zinc	43.3	0.400	"	40.0	108	80-120

**Duplicate (BFI0716-DUP1)**

Source: 2209394-01

Prepared: 09/28/22 Analyzed: 10/03/22

Arsenic	0.993	0.205	mg/kg dry	1.02	2.60	20
Barium	88.9	0.410	"	87.9	1.12	20
Cadmium	0.0470	0.205	"	0.0488	3.60	20
Copper	1.98	0.410	"	2.00	0.717	20
Lead	2.69	0.205	"	2.59	3.44	20
Nickel	2.06	0.410	"	2.03	1.32	20
Selenium	0.379	0.266	"	0.301	22.9	20
Silver	0.00472	0.0205	"	0.00470	0.441	20
Zinc	7.69	0.410	"	7.55	1.80	20

QR-03

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PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0716 - EPA 3050B**

Matrix Spike (BFI0716-MS1)		Source: 2209394-01			Prepared: 09/28/22 Analyzed: 10/03/22					
Arsenic	46.9	0.205	mg/kg dry	41.0	1.02	112	75-125			
Barium	196	0.410	"	41.0	87.9	263	75-125			QM-05
Cadmium	2.44	0.205	"	2.05	0.0488	117	75-125			
Copper	45.5	0.410	"	41.0	2.00	106	75-125			
Lead	24.8	0.205	"	20.5	2.59	109	75-125			
Nickel	45.5	0.410	"	41.0	2.03	106	75-125			
Selenium	4.77	0.266	"	4.10	0.301	109	75-125			
Silver	2.29	0.0205	"	2.05	0.00470	112	75-125			
Zinc	56.4	0.410	"	41.0	7.55	119	75-125			

Matrix Spike Dup (BFI0716-MSD1)		Source: 2209394-01			Prepared: 09/28/22 Analyzed: 10/03/22					
Arsenic	46.3	0.205	mg/kg dry	41.0	1.02	111	75-125	1.32	25	
Barium	194	0.410	"	41.0	87.9	259	75-125	0.914	25	QM-05
Cadmium	2.41	0.205	"	2.05	0.0488	116	75-125	1.17	25	
Copper	44.9	0.410	"	41.0	2.00	105	75-125	1.38	25	
Lead	24.8	0.205	"	20.5	2.59	109	75-125	0.0228	25	
Nickel	45.2	0.410	"	41.0	2.03	105	75-125	0.692	25	
Selenium	4.58	0.266	"	4.10	0.301	105	75-125	3.97	25	
Silver	2.25	0.0205	"	2.05	0.00470	110	75-125	1.97	25	
Zinc	55.9	0.410	"	41.0	7.55	118	75-125	0.803	25	

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PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFJ0092 - 3060A Mod**

**Blank (BFJ0092-BLK1)**

Prepared & Analyzed: 10/05/22

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BFJ0092-BS1)**

Prepared & Analyzed: 10/05/22

Chromium, Hexavalent 24.8 0.30 mg/kg wet 25.0 99.2 80-120

**Duplicate (BFJ0092-DUP1)**

**Source: 2209302-04**

Prepared & Analyzed: 10/05/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BFJ0092-MS1)**

**Source: 2209302-04**

Prepared & Analyzed: 10/05/22

Chromium, Hexavalent 31.3 0.30 mg/kg dry 30.0 ND 104 75-125

**Matrix Spike Dup (BFJ0092-MSD1)**

**Source: 2209302-04**

Prepared & Analyzed: 10/05/22

Chromium, Hexavalent 32.3 0.30 mg/kg dry 30.0 ND 108 75-125 3.02 20

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PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BFI0769 - General Preparation**

**Blank (BFI0769-BLK1)**

Prepared: 09/29/22 Analyzed: 10/05/22

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

**LCS (BFI0769-BS1)**

Prepared: 09/29/22 Analyzed: 10/05/22

Calcium	6.44	0.0500	mg/L wet	5.00	129	70-130
Magnesium	5.63	0.0500	"	5.00	113	70-130
Sodium	5.22	0.0500	"	5.00	104	70-130

**Batch BFJ0131 - General Preparation**

**Blank (BFJ0131-BLK1)**

Prepared: 10/06/22 Analyzed: 10/10/22

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

**LCS (BFJ0131-BS1)**

Prepared: 10/06/22 Analyzed: 10/10/22

Calcium	5.65	0.0500	mg/L wet	5.00	113	70-130
Magnesium	5.44	0.0500	"	5.00	109	70-130
Sodium	5.18	0.0500	"	5.00	104	70-130

**Batch BFJ0132 - General Preparation**

**Blank (BFJ0132-BLK1)**

Prepared: 10/06/22 Analyzed: 10/10/22

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**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 BFJ0132 - General Preparation**

**LCS (BFJ0132-BS1)**

Prepared: 10/06/22 Analyzed: 10/10/22

Calcium	5.68	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.39	0.0500	"	5.00	108	70-130
Sodium	5.43	0.0500	"	5.00	109	70-130

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Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

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

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

**Batch BFI0763 - General Preparation**

**Duplicate (BFI0763-DUP1)**      **Source: 2209454-01**      Prepared: 09/29/22 Analyzed: 09/30/22

% Solids	82.6	%		85.5		3.46	20
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**Batch BFJ0129 - General Preparation**

**Duplicate (BFJ0129-DUP1)**      **Source: 2209261-03**      Prepared: 10/06/22 Analyzed: 10/10/22

% Solids	93.8	%		93.8		0.00748	20
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PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

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

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

**Batch BFI0771 - General Preparation**

**Blank (BFI0771-BLK1)**

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFI0771-BS1)**

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFI0771-DUP1)**

**Source: 2209453-01**

Prepared: 09/29/22 Analyzed: 09/30/22

Specific Conductance (EC) 0.297 0.0100 mmhos/cm 0.297 0.00 20

**Batch BFJ0140 - General Preparation**

**Blank (BFJ0140-BLK1)**

Prepared: 10/06/22 Analyzed: 10/11/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0140-BS1)**

Prepared: 10/06/22 Analyzed: 10/11/22

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.1 95-105

**Duplicate (BFJ0140-DUP1)**

**Source: 2209466-02**

Prepared: 10/06/22 Analyzed: 10/11/22

Specific Conductance (EC) 3.54 0.0100 mmhos/cm 3.55 0.0564 20

**Batch BFJ0143 - General Preparation**

**Blank (BFJ0143-BLK1)**

Prepared: 10/06/22 Analyzed: 10/12/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0143-BS1)**

Prepared: 10/06/22 Analyzed: 10/12/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: C022-125  
Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

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

**Summit Scientific**

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

**Batch BFJ0143 - General Preparation**

**Duplicate (BFJ0143-DUP1)**

**Source: 2209261-03**

Prepared: 10/06/22 Analyzed: 10/12/22

Specific Conductance (EC)	0.312	0.0100	mmhos/cm	0.308	1.42	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps

Project Number: C022-125

Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

**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 BFI0772 - General Preparation**

**LCS (BFI0772-BS1)**

Prepared: 09/29/22 Analyzed: 09/30/22

pH	9.11	pH Units	9.18	99.2	95-105
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**Duplicate (BFI0772-DUP1)**

Source: 2209453-01

Prepared: 09/29/22 Analyzed: 09/30/22

pH	7.92	pH Units	7.92	0.00	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps

Project Number: C022-125

Project Manager: Paul Henchan

**Reported:**  
10/12/22 11:27

### 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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 11, 2022

Paul Henehan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: PDC - Phelps  
Work Order #2209513

Enclosed are the results of analyses for samples received by Summit Scientific on 09/26/22 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell".

Mikayla Axtell For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps

Project Number: [none]

Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-08	2209513-01	Soil	09/26/22 00:00	09/26/22 17:00

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.*

$S_2$ 

303-277-9310

Project Number:

[www.s2scientific.com](http://www.s2scientific.com)

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2209513Client: Fremont Client Project ID: Doc-PhelpsShipped 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"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 04Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	
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"/>	
Additional Comments (if any):				

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

Custodian Printed Name

Date/Time

9-26-22

19:20



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

**SS-08**  
**2209513-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10735	09/28/22	09/29/22	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: **09/26/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		86.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10738	09/28/22	09/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		78.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

**SS-08**  
**2209513-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10691	09/27/22	09/28/22	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: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		78.0 %	40-150		"	"	"	"	

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

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>604</b>	0.0580	mg/L dry	1	BFJ0131	10/06/22	10/10/22	EPA 6020B	
<b>Magnesium</b>	<b>0.881</b>	0.0580	"	"	"	"	"	"	
<b>Sodium</b>	<b>1440</b>	0.0580	"	"	"	"	"	"	

**Calculated Analysis**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

**SS-08**  
**2209513-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	16.1	0.00100	units	1	BFJ0228	10/10/22	10/10/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.2		%	1	BFJ0129	10/06/22	10/10/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/26/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	9.08	0.0100	mmhos/cm	1	BFJ0140	10/06/22	10/11/22	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

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

### Summit Scientific

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

#### Batch BFI0735 - EPA 5030 Soil MS

##### Blank (BFI0735-BLK1)

Prepared: 09/28/22 Analyzed: 09/29/22

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.3	50-150			

##### LCS (BFI0735-BS1)

Prepared: 09/28/22 Analyzed: 09/29/22

Benzene	0.0553	0.0020	mg/kg	0.0750		73.7	70-130			
Toluene	0.0601	0.0050	"	0.0750		80.2	70-130			
Ethylbenzene	0.0555	0.0050	"	0.0750		74.0	70-130			
m,p-Xylene	0.111	0.010	"	0.150		74.2	70-130			
o-Xylene	0.0582	0.0050	"	0.0750		77.6	70-130			
1,2,4-Trimethylbenzene	0.0552	0.0050	"	0.0750		73.6	70-130			
1,3,5-Trimethylbenzene	0.0548	0.0050	"	0.0750		73.0	70-130			
Naphthalene	0.0577	0.0038	"	0.0750		76.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0326		"	0.0400		81.6	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.5	50-150			

##### Matrix Spike (BFI0735-MS1)

Source: 2209507-04

Prepared: 09/28/22 Analyzed: 09/29/22

Benzene	0.0536	0.0020	mg/kg	0.0750	ND	71.4	70-130			
Toluene	0.0589	0.0050	"	0.0750	ND	78.6	70-130			
Ethylbenzene	0.0550	0.0050	"	0.0750	ND	73.3	70-130			
m,p-Xylene	0.110	0.010	"	0.150	ND	73.1	70-130			
o-Xylene	0.0576	0.0050	"	0.0750	ND	76.8	70-130			
1,2,4-Trimethylbenzene	0.0548	0.0050	"	0.0750	ND	73.0	70-130			
1,3,5-Trimethylbenzene	0.0544	0.0050	"	0.0750	ND	72.5	70-130			
Naphthalene	0.0550	0.0038	"	0.0750	ND	73.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.4	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.6	50-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

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

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

**Batch BFI0735 - EPA 5030 Soil MS**

Matrix Spike Dup (BFI0735-MSD1)		Source: 2209507-04			Prepared: 09/28/22 Analyzed: 09/29/22					
Benzene	0.0525	0.0020	mg/kg	0.0750	ND	70.0	70-130	1.92	30	
Toluene	0.0601	0.0050	"	0.0750	ND	80.1	70-130	1.97	30	
Ethylbenzene	0.0566	0.0050	"	0.0750	ND	75.4	70-130	2.85	30	
m,p-Xylene	0.114	0.010	"	0.150	ND	75.7	70-130	3.55	30	
o-Xylene	0.0588	0.0050	"	0.0750	ND	78.4	70-130	2.01	30	
1,2,4-Trimethylbenzene	0.0556	0.0050	"	0.0750	ND	74.1	70-130	1.41	30	
1,3,5-Trimethylbenzene	0.0559	0.0050	"	0.0750	ND	74.5	70-130	2.78	30	
Naphthalene	0.0574	0.0038	"	0.0750	ND	76.6	70-130	4.38	30	
Surrogate: 1,2-Dichloroethane-d4		0.0368	"	0.0400		91.9	50-150			
Surrogate: Toluene-d8		0.0408	"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene		0.0355	"	0.0400		88.8	50-150			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/11/22 13:38

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFI0738 - EPA 3550A**

**Blank (BFI0738-BLK1)**

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.6		"	12.5		92.4	30-150			

**LCS (BFI0738-BS1)**

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	591	50	mg/kg	500		118	70-130			
Surrogate: o-Terphenyl	11.1		"	12.5		88.6	30-150			

**Matrix Spike (BFI0738-MS1)**

Source: 2209507-04

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	629	50	mg/kg	500	15.7	123	70-130			
Surrogate: o-Terphenyl	10.9		"	12.5		87.2	30-150			

**Matrix Spike Dup (BFI0738-MSD1)**

Source: 2209507-04

Prepared: 09/28/22 Analyzed: 09/29/22

C10-C28 (DRO)	558	50	mg/kg	500	15.7	108	70-130	12.0	20	
Surrogate: o-Terphenyl	9.91		"	12.5		79.3	30-150			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFI0691 - EPA 5030 Soil MS

##### Blank (BFI0691-BLK1)

Prepared & Analyzed: 09/27/22

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	"								
Surrogate: 2-Methylnaphthalene-d10	0.0262		"	0.0333		78.5		40-150			
Surrogate: Fluoranthene-d10	0.0342		"	0.0333		103		40-150			

##### LCS (BFI0691-BS1)

Prepared & Analyzed: 09/27/22

Acenaphthene	0.0312	0.00500	mg/kg	0.0333		93.5		31-137			
Anthracene	0.0301	0.00500	"	0.0333		90.4		30-120			
Benzo (a) anthracene	0.0286	0.00500	"	0.0333		85.8		30-120			
Benzo (a) pyrene	0.0244	0.00500	"	0.0333		73.1		30-120			
Benzo (b) fluoranthene	0.0249	0.00500	"	0.0333		74.7		30-120			
Benzo (k) fluoranthene	0.0327	0.00500	"	0.0333		98.2		30-120			
Chrysene	0.0348	0.00500	"	0.0333		104		30-120			
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333		59.4		30-120			
Fluoranthene	0.0309	0.00500	"	0.0333		92.7		30-120			
Fluorene	0.0320	0.00500	"	0.0333		96.1		30-120			
Indeno (1,2,3-cd) pyrene	0.0188	0.00500	"	0.0333		56.4		30-120			
Pyrene	0.0355	0.00500	"	0.0333		107		35-142			
1-Methylnaphthalene	0.0277	0.00500	"	0.0333		83.1		35-142			
2-Methylnaphthalene	0.0312	0.00500	"	0.0333		93.6		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0308		"	0.0333		92.4		40-150			
Surrogate: Fluoranthene-d10	0.0310		"	0.0333		93.1		40-150			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BFI0691 - EPA 5030 Soil MS

##### Matrix Spike (BFI0691-MS1)

Source: 2209453-01

Prepared & Analyzed: 09/27/22

Acenaphthene	0.0197	0.00500	mg/kg	0.0333	ND	59.1	31-137		
Anthracene	0.0204	0.00500	"	0.0333	ND	61.3	30-120		
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	0.00176	54.5	30-120		
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	45.8	30-120		
Benzo (b) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.6	30-120		
Benzo (k) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.6	30-120		
Chrysene	0.0221	0.00500	"	0.0333	ND	66.3	30-120		
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.8	30-120		
Fluoranthene	0.0211	0.00500	"	0.0333	ND	63.4	30-120		
Fluorene	0.0205	0.00500	"	0.0333	ND	61.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0151	0.00500	"	0.0333	ND	45.3	30-120		
Pyrene	0.0223	0.00500	"	0.0333	ND	66.9	35-142		
1-Methylnaphthalene	0.0184	0.00500	"	0.0333	0.00352	44.5	15-130		
2-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.3	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0171		"	0.0333		51.2	40-150		
Surrogate: Fluoranthene-d10	0.0223		"	0.0333		66.9	40-150		

##### Matrix Spike Dup (BFI0691-MSD1)

Source: 2209453-01

Prepared & Analyzed: 09/27/22

Acenaphthene	0.0202	0.00500	mg/kg	0.0333	ND	60.7	31-137	2.63	30
Anthracene	0.0205	0.00500	"	0.0333	ND	61.6	30-120	0.633	30
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	0.00176	56.2	30-120	2.89	30
Benzo (a) pyrene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	1.86	30
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.1	30-120	5.24	30
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	3.86	30
Chrysene	0.0209	0.00500	"	0.0333	ND	62.7	30-120	5.50	30
Dibenz (a,h) anthracene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	2.27	30
Fluoranthene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	3.04	30
Fluorene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	1.58	30
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	6.89	30
Pyrene	0.0220	0.00500	"	0.0333	ND	65.9	35-142	1.50	30
1-Methylnaphthalene	0.0212	0.00500	"	0.0333	0.00352	53.0	15-130	14.3	50
2-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.6	15-130	11.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0195		"	0.0333		58.6	40-150		
Surrogate: Fluoranthene-d10	0.0216		"	0.0333		64.9	40-150		

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 - Phelps

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

**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 BFJ0131 - General Preparation**

**Blank (BFJ0131-BLK1)**

Prepared: 10/06/22 Analyzed: 10/10/22

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

**LCS (BFJ0131-BS1)**

Prepared: 10/06/22 Analyzed: 10/10/22

Calcium	5.65	0.0500	mg/L wet	5.00	113	70-130
Magnesium	5.44	0.0500	"	5.00	109	70-130
Sodium	5.18	0.0500	"	5.00	104	70-130

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps

Project Number: [none]

Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

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

**Summit Scientific**

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

**Batch BFJ0129 - General Preparation**

**Duplicate (BFJ0129-DUP1)**

**Source: 2209261-03**

Prepared: 10/06/22 Analyzed: 10/10/22

% Solids	93.8	%	93.8	0.00748	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

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

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

**Batch BFJ0140 - General Preparation**

**Blank (BFJ0140-BLK1)**

Prepared: 10/06/22 Analyzed: 10/11/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0140-BS1)**

Prepared: 10/06/22 Analyzed: 10/11/22

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.1 95-105

**Duplicate (BFJ0140-DUP1)**

**Source: 2209466-02**

Prepared: 10/06/22 Analyzed: 10/11/22

Specific Conductance (EC) 3.54 0.0100 mmhos/cm 3.55 0.0564 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Phelps

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
10/11/22 13:38

### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference