

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 21, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: PDC - Kreps Excavation

Work Order #2411280

Enclosed are the results of analyses for samples received by Summit Scientific on 11/15/24 13:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-1	2411280-01	Water	11/14/24 00:00	11/15/24 13:30
SSB2 - 8.0ft	2411280-02	Soil	11/14/24 00:00	11/15/24 13:30
SSE2 - 7.0ft	2411280-03	Soil	11/14/24 00:00	11/15/24 13:30
SSW2 - 7.0ft	2411280-04	Soil	11/14/24 00:00	11/15/24 13:30
SSS1 - 7.0ft	2411280-05	Soil	11/14/24 00:00	11/15/24 13:30
Waste Char.	2411280-06	Soil	11/14/24 00:00	11/15/24 13:30
SSW1 - 7.0ft	2411280-07	Soil	11/14/24 00:00	11/15/24 13:30

Summit Scientific

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

Lab ID	Page of
2411280	

Send Data To:		Send Invoice To:	
Client: Fremont	Project Manager: Paul Henehan	Company: Chevron - PDC	
Address:	E-Mail: Distribution List	Project Name/Location:	
City/State/Zip:		AFE#:	
Phone: 813-514-7730	Project Name: Krops excavation	PO/Billing Codes:	
Sampler Name: JOSHUA Belanger	Project Number: C024-246	Contact: JASON DAVIDSON	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other					
1	GW-1	11/14		4	3				X				X				
2	SSBZ-8.0ft	11/14		2			X			X				X			
3	SSEZ-7.0ft	11/14		2													
4	SSW2-7.0ft	11/14		2													
5	SSS1-7.0ft	11/14		2													
6	WASTE Char.	11/15		2													
7	SSW1-7.0ft	11/15		2													
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished by:	Date/Time: 11/15 1330	Received by: Summit Worker	Date/Time: 11/15 1330	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time: 11/15/24 1350	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt:	Corrected Temperature 1.4	IR gun #: NO #1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2411280

Client: Fremont Client Project ID: Kaps Excavation

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

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

Temp (°C) 1.4 Thermometer # North office

	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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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.

Caerim Spence
Custodian Printed Name

11/15/24
Date/Time

2025 2.7



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

GW-1
2411280-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BHK0824	11/15/24	11/15/24	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	1.4	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	5.5	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.8	1.0		"	"	"	"	"	"	

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.5	101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.2 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	122	0.0600		mg/L	50	BHK0879	11/16/24	11/17/24	EPA 300.0	
Sulfate	1310	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2470	10.0		mg/L	1	BHK0902	11/18/24	11/20/24	SM2540C	

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Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSB2 - 8.0ft
2411280-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0855	11/15/24	11/15/24	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: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0344	86.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0858	11/15/24	11/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.0	87.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

SSB2 - 8.0ft
2411280-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0875	11/16/24	11/18/24	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: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0155	46.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0912	11/18/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSB2 - 8.0ft
2411280-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.01	0.200	mg/kg dry	1	BHK0907	11/18/24	11/19/24	EPA 6020B	
Barium	69.1	0.400	"	"	"	"	"	"	
Cadmium	0.273	0.200	"	"	"	"	"	"	
Copper	4.64	0.400	"	"	"	"	"	"	
Lead	7.12	0.200	"	"	"	"	"	"	
Nickel	6.17	0.400	"	"	"	"	"	"	
Silver	0.0541	0.0200	"	"	"	"	"	"	
Zinc	21.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0883	11/16/24	11/17/24	EPA 7196A	

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

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.0	0.0500	mg/L dry	1	BHK0870	11/15/24	11/18/24	EPA 6020B	
Magnesium	33.9	0.0500	"	"	"	"	"	"	
Sodium	145	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.90	0.00100	units	1	BHK0975	11/19/24	11/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Kreps Excavation

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Reported:
 11/21/24 08:15

SSB2 - 8.0ft
2411280-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.9	%	1	BHK0920	11/18/24	11/18/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.964	0.0100	mmhos/cm	1	BHK0871	11/15/24	11/19/24	EPA 120.1	

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

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BHK0872	11/15/24	11/19/24	EPA 9045D	

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Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSE2 - 7.0ft
2411280-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0855	11/15/24	11/15/24	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: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0358	89.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	95.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0858	11/15/24	11/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.1	105 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Kreps Excavation

Project Number: CO24-246
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 11/21/24 08:15

SSE2 - 7.0ft
2411280-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0875	11/16/24	11/18/24	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: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0197	59.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0912	11/18/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Kreps Excavation
Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSE2 - 7.0ft
2411280-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.37	0.200	mg/kg dry	1	BHK0907	11/18/24	11/19/24	EPA 6020B	
Barium	111	0.400	"	"	"	"	"	"	
Cadmium	0.312	0.200	"	"	"	"	"	"	
Copper	5.65	0.400	"	"	"	"	"	"	
Lead	7.79	0.200	"	"	"	"	"	"	
Nickel	6.74	0.400	"	"	"	"	"	"	
Silver	0.0514	0.0200	"	"	"	"	"	"	
Zinc	23.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0883	11/16/24	11/17/24	EPA 7196A	

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

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.5	0.0500	mg/L dry	1	BHK0870	11/15/24	11/18/24	EPA 6020B	
Magnesium	32.4	0.0500	"	"	"	"	"	"	
Sodium	137	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.76	0.00100	units	1	BHK0975	11/19/24	11/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

SSE2 - 7.0ft
2411280-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.3	%	1	BHK0920	11/18/24	11/18/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.912	0.0100	mmhos/cm	1	BHK0871	11/15/24	11/19/24	EPA 120.1	

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

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BHK0872	11/15/24	11/19/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSW2 - 7.0ft
2411280-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0855	11/15/24	11/18/24	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: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0340	85.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0858	11/15/24	11/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.0	96.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSW2 - 7.0ft
2411280-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0875	11/16/24	11/18/24	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: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0240	72.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0912	11/18/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/14/24 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 - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSW2 - 7.0ft
2411280-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.59	0.200	mg/kg dry	1	BHK0907	11/18/24	11/19/24	EPA 6020B	
Barium	62.2	0.400	"	"	"	"	"	"	
Cadmium	0.294	0.200	"	"	"	"	"	"	
Copper	4.62	0.400	"	"	"	"	"	"	
Lead	6.85	0.200	"	"	"	"	"	"	
Nickel	5.85	0.400	"	"	"	"	"	"	
Silver	0.0485	0.0200	"	"	"	"	"	"	
Zinc	19.9	0.400	"	"	"	"	"	"	
Selenium	0.280	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0883	11/16/24	11/17/24	EPA 7196A	

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

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	63.5	0.0500	mg/L dry	1	BHK0870	11/15/24	11/18/24	EPA 6020B	
Magnesium	46.8	0.0500	"	"	"	"	"	"	
Sodium	225	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.22	0.00100	units	1	BHK0975	11/19/24	11/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

SSW2 - 7.0ft
2411280-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.6	%	1	BHK0920	11/18/24	11/18/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.48	0.0100	mmhos/cm	1	BHK0871	11/15/24	11/19/24	EPA 120.1	

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

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BHK0872	11/15/24	11/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSS1 - 7.0ft
2411280-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0855	11/15/24	11/18/24	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: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0327	81.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0858	11/15/24	11/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.7	102 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSS1 - 7.0ft
2411280-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0875	11/16/24	11/18/24	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: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0227	68.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0217	65.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0912	11/18/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/14/24 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 - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSS1 - 7.0ft
2411280-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.10	0.200	mg/kg dry	1	BHK0907	11/18/24	11/19/24	EPA 6020B	
Barium	46.3	0.400	"	"	"	"	"	"	
Cadmium	0.215	0.200	"	"	"	"	"	"	
Copper	3.93	0.400	"	"	"	"	"	"	
Lead	5.61	0.200	"	"	"	"	"	"	
Nickel	4.21	0.400	"	"	"	"	"	"	
Silver	0.0352	0.0200	"	"	"	"	"	"	
Zinc	15.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0883	11/16/24	11/17/24	EPA 7196A	

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

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	91.1	0.0500	mg/L dry	1	BHK0870	11/15/24	11/18/24	EPA 6020B	
Magnesium	78.4	0.0500	"	"	"	"	"	"	
Sodium	371	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.88	0.00100	units	1	BHK0975	11/19/24	11/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

SSS1 - 7.0ft
2411280-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.0	%	1	BHK0920	11/18/24	11/18/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.46	0.0100	mmhos/cm	1	BHK0871	11/15/24	11/19/24	EPA 120.1	

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

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BHK0872	11/15/24	11/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

Waste Char.
2411280-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0855	11/15/24	11/18/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.097	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.017	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.16	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.028	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	13	0.50	"	"	"	"	"	"	

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0466	116 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0417	104 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0606	152 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0858	11/15/24	11/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	9.73	77.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

Waste Char.
2411280-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0875	11/16/24	11/18/24	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	0.00837	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0202	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0124	0.00500	"	"	"	"	"	"	

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0249	74.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0228	68.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0912	11/18/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

Waste Char.
2411280-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.64	0.200	mg/kg dry	1	BHK0907	11/18/24	11/19/24	EPA 6020B	
Barium	88.9	0.400	"	"	"	"	"	"	
Cadmium	0.287	0.200	"	"	"	"	"	"	
Copper	6.66	0.400	"	"	"	"	"	"	
Lead	22.8	0.200	"	"	"	"	"	"	
Nickel	5.53	0.400	"	"	"	"	"	"	
Silver	0.0366	0.0200	"	"	"	"	"	"	
Zinc	25.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0883	11/16/24	11/17/24	EPA 7196A	

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

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	33.2	0.0500	mg/L dry	1	BHK0870	11/15/24	11/18/24	EPA 6020B	
Magnesium	43.9	0.0500	"	"	"	"	"	"	
Sodium	273	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.32	0.00100	units	1	BHK0975	11/19/24	11/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
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Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

Waste Char.
2411280-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.8	%	1	BHK0920	11/18/24	11/18/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.47	0.0100	mmhos/cm	1	BHK0871	11/15/24	11/19/24	EPA 120.1	

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

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BHK0872	11/15/24	11/19/24	EPA 9045D	

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Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSW1 - 7.0ft
2411280-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0855	11/15/24	11/18/24	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	0.97	0.50	"	"	"	"	"	"	

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0449	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0429	107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0858	11/15/24	11/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.4	91.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSW1 - 7.0ft
2411280-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0875	11/16/24	11/18/24	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: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0232	69.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	61.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0912	11/18/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/14/24 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 - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

SSW1 - 7.0ft
2411280-07 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.39	0.200	mg/kg dry	1	BHK0907	11/18/24	11/19/24	EPA 6020B
Barium	139	0.400	"	"	"	"	"	"
Cadmium	0.272	0.200	"	"	"	"	"	"
Copper	4.72	0.400	"	"	"	"	"	"
Lead	6.46	0.200	"	"	"	"	"	"
Nickel	6.35	0.400	"	"	"	"	"	"
Silver	0.0304	0.0200	"	"	"	"	"	"
Zinc	20.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0883	11/16/24	11/17/24	EPA 7196A	

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

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.4	0.0500	mg/L dry	1	BHK0870	11/15/24	11/18/24	EPA 6020B	
Magnesium	32.2	0.0500	"	"	"	"	"	"	
Sodium	105	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.15	0.00100	units	1	BHK0975	11/19/24	11/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/14/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
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Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

SSW1 - 7.0ft
2411280-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.6	%	1	BHK0920	11/18/24	11/18/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.750	0.0100	mmhos/cm	1	BHK0871	11/15/24	11/19/24	EPA 120.1	

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

Date Sampled: **11/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BHK0872	11/15/24	11/19/24	EPA 9045D	

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Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHK0824 - EPA 5030 Water MS

Blank (BHK0824-BLK1)

Prepared & Analyzed: 11/15/24

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		99.6		23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.1		20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8		21-167			

LCS (BHK0824-BS1)

Prepared & Analyzed: 11/15/24

Benzene	50.7	1.0	ug/l	50.0		101		51-132			
Toluene	50.4	1.0	"	50.0		101		51-138			
Ethylbenzene	51.3	1.0	"	50.0		103		58-146			
m,p-Xylene	102	2.0	"	100		102		57-144			
o-Xylene	50.3	1.0	"	50.0		101		53-146			
Naphthalene	50.4	1.0	"	50.0		101		70-130			
1,2,4-Trimethylbenzene	52.5	1.0	"	50.0		105		70-130			
1,3,5-Trimethylbenzene	51.9	1.0	"	50.0		104		70-130			
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101		23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100		20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100		21-167			

LCS Dup (BHK0824-BSD1)

Prepared & Analyzed: 11/15/24

Benzene	50.7	1.0	ug/l	50.0		101		51-132	0.0197	20	
Toluene	49.9	1.0	"	50.0		99.8		51-138	1.06	20	
Ethylbenzene	51.3	1.0	"	50.0		103		58-146	0.0195	20	
m,p-Xylene	102	2.0	"	100		102		57-144	0.265	20	
o-Xylene	50.3	1.0	"	50.0		101		53-146	0.0795	20	
Naphthalene	48.8	1.0	"	50.0		97.6		70-130	3.24	20	
1,2,4-Trimethylbenzene	51.0	1.0	"	50.0		102		70-130	3.01	20	
1,3,5-Trimethylbenzene	51.0	1.0	"	50.0		102		70-130	1.65	20	
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		100		23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.1		20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.7		21-167			

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Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHK0855 - EPA 5030 Soil MS

Blank (BHK0855-BLK1)

Prepared & Analyzed: 11/15/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0345</i>		<i>"</i>	<i>0.0400</i>		<i>86.2</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.6</i>	<i>50-150</i>			

LCS (BHK0855-BS1)

Prepared & Analyzed: 11/15/24

Benzene	0.100	0.0020	mg/kg	0.100		100	70-130			
Toluene	0.108	0.0050	"	0.100		108	70-130			
Ethylbenzene	0.115	0.0050	"	0.100		115	70-130			
m,p-Xylene	0.221	0.010	"	0.200		111	70-130			
o-Xylene	0.107	0.0050	"	0.100		107	70-130			
1,2,4-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.113	0.0050	"	0.100		113	70-130			
Naphthalene	0.0964	0.0038	"	0.100		96.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0358</i>		<i>"</i>	<i>0.0400</i>		<i>89.6</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.7</i>	<i>50-150</i>			

Matrix Spike (BHK0855-MS1)

Source: 2411280-02

Prepared & Analyzed: 11/15/24

Benzene	0.0909	0.0020	mg/kg	0.100	ND	90.9	70-130			
Toluene	0.0966	0.0050	"	0.100	ND	96.6	70-130			
Ethylbenzene	0.0961	0.0050	"	0.100	ND	96.1	70-130			
m,p-Xylene	0.188	0.010	"	0.200	ND	94.1	70-130			
o-Xylene	0.0902	0.0050	"	0.100	ND	90.2	70-130			
1,2,4-Trimethylbenzene	0.0928	0.0050	"	0.100	ND	92.8	70-130			
1,3,5-Trimethylbenzene	0.0939	0.0050	"	0.100	ND	93.9	70-130			
Naphthalene	0.0949	0.0038	"	0.100	ND	94.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

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 BHK0855 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0855-MSD1)	Source: 2411280-02			Prepared & Analyzed: 11/15/24						
Benzene	0.0918	0.0020	mg/kg	0.100	ND	91.8	70-130	1.05	30	
Toluene	0.0968	0.0050	"	0.100	ND	96.8	70-130	0.186	30	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	6.76	30	
m,p-Xylene	0.201	0.010	"	0.200	ND	100	70-130	6.38	30	
o-Xylene	0.0952	0.0050	"	0.100	ND	95.2	70-130	5.50	30	
1,2,4-Trimethylbenzene	0.0980	0.0050	"	0.100	ND	98.0	70-130	5.53	30	
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130	6.61	30	
Naphthalene	0.0899	0.0038	"	0.100	ND	89.9	70-130	5.39	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.1</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

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 BHK0858 - EPA 3550A

Blank (BHK0858-BLK1)

Prepared: 11/15/24 Analyzed: 11/16/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.1		"	12.5		113		30-150			

LCS (BHK0858-BS1)

Prepared: 11/15/24 Analyzed: 11/16/24

C10-C28 (DRO)	587	50	mg/kg	500		117		70-130			
Surrogate: <i>o</i> -Terphenyl	14.0		"	12.5		112		30-150			

Matrix Spike (BHK0858-MS1)

Source: 2411280-02

Prepared: 11/15/24 Analyzed: 11/16/24

C10-C28 (DRO)	527	50	mg/kg	500	21.2	101		70-130			
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		100		30-150			

Matrix Spike Dup (BHK0858-MSD1)

Source: 2411280-02

Prepared: 11/15/24 Analyzed: 11/16/24

C10-C28 (DRO)	526	50	mg/kg	500	21.2	101		70-130	0.122	20	
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.2		30-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHK0875 - EPA 5030 Soil MS

Blank (BHK0875-BLK1)

Prepared: 11/16/24 Analyzed: 11/18/24

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0218		"	0.0333		65.4	40-140			
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		68.9	40-140			

LCS (BHK0875-BS1)

Prepared: 11/16/24 Analyzed: 11/18/24

Acenaphthene	0.0235	0.00500	mg/kg	0.0333		70.4	40-140			
Anthracene	0.0233	0.00500	"	0.0333		69.9	40-140			
Benzo (a) anthracene	0.0237	0.00500	"	0.0333		71.0	40-140			
Benzo (a) pyrene	0.0220	0.00500	"	0.0333		65.9	40-140			
Benzo (b) fluoranthene	0.0226	0.00500	"	0.0333		67.8	40-140			
Benzo (k) fluoranthene	0.0239	0.00500	"	0.0333		71.8	40-140			
Chrysene	0.0248	0.00500	"	0.0333		74.5	40-140			
Dibenz (a,h) anthracene	0.0195	0.00500	"	0.0333		58.6	40-140			
Fluoranthene	0.0249	0.00500	"	0.0333		74.8	40-140			
Fluorene	0.0241	0.00500	"	0.0333		72.4	40-140			
Indeno (1,2,3-cd) pyrene	0.0205	0.00500	"	0.0333		61.5	40-140			
Pyrene	0.0232	0.00500	"	0.0333		69.5	40-140			
1-Methylnaphthalene	0.0237	0.00500	"	0.0333		71.0	40-140			
2-Methylnaphthalene	0.0245	0.00500	"	0.0333		73.5	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0244		"	0.0333		73.3	40-140			
Surrogate: Fluoranthene-d10	0.0256		"	0.0333		76.7	40-140			

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Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
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PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHK0875 - EPA 5030 Soil MS

Matrix Spike (BHK0875-MS1)	Source: 2411271-01			Prepared: 11/16/24 Analyzed: 11/18/24						
Acenaphthene	0.0222	0.00500	mg/kg	0.0333	ND	66.5	40-140			
Anthracene	0.0210	0.00500	"	0.0333	ND	62.9	40-140			
Benzo (a) anthracene	0.0216	0.00500	"	0.0333	ND	64.8	40-140			
Benzo (a) pyrene	0.0194	0.00500	"	0.0333	ND	58.2	40-140			
Benzo (b) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.3	40-140			
Benzo (k) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.2	40-140			
Chrysene	0.0215	0.00500	"	0.0333	ND	64.6	40-140			
Dibenz (a,h) anthracene	0.0162	0.00500	"	0.0333	ND	48.6	40-140			
Fluoranthene	0.0221	0.00500	"	0.0333	ND	66.4	40-140			
Fluorene	0.0222	0.00500	"	0.0333	ND	66.5	40-140			
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.4	40-140			
Pyrene	0.0209	0.00500	"	0.0333	ND	62.6	40-140			
1-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	66.0	40-140			
2-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.4	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0233</i>		<i>"</i>	<i>0.0333</i>		<i>69.9</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0227</i>		<i>"</i>	<i>0.0333</i>		<i>68.1</i>	<i>40-140</i>			

Matrix Spike Dup (BHK0875-MSD1)	Source: 2411271-01			Prepared: 11/16/24 Analyzed: 11/18/24						
Acenaphthene	0.0198	0.00500	mg/kg	0.0333	ND	59.3	40-140	11.6	30	
Anthracene	0.0190	0.00500	"	0.0333	ND	56.9	40-140	10.0	30	
Benzo (a) anthracene	0.0203	0.00500	"	0.0333	ND	61.0	40-140	5.92	30	
Benzo (a) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	40-140	6.14	30	
Benzo (b) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.6	40-140	6.53	30	
Benzo (k) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.7	40-140	7.94	30	
Chrysene	0.0199	0.00500	"	0.0333	ND	59.7	40-140	7.87	30	
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.4	40-140	4.47	30	
Fluoranthene	0.0200	0.00500	"	0.0333	ND	60.1	40-140	9.89	30	
Fluorene	0.0201	0.00500	"	0.0333	ND	60.2	40-140	9.91	30	
Indeno (1,2,3-cd) pyrene	0.0162	0.00500	"	0.0333	ND	48.7	40-140	5.35	30	
Pyrene	0.0195	0.00500	"	0.0333	ND	58.5	40-140	6.84	30	
1-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.7	40-140	15.0	30	
2-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.6	40-140	14.8	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0210</i>		<i>"</i>	<i>0.0333</i>		<i>62.9</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0205</i>		<i>"</i>	<i>0.0333</i>		<i>61.6</i>	<i>40-140</i>			

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Fremont Environmental
 PO Box 1289
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Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

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

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

Batch BHK0912 - EPA 3050B

Blank (BHK0912-BLK1)

Prepared & Analyzed: 11/18/24

Boron ND 2.00 mg/L

LCS (BHK0912-BS1)

Prepared & Analyzed: 11/18/24

Boron 4.68 2.00 mg/L 5.00 93.5 80-120

Duplicate (BHK0912-DUP1)

Source: 2411280-02

Prepared & Analyzed: 11/18/24

Boron 0.354 2.00 mg/L 0.376 5.85 20

Matrix Spike (BHK0912-MS1)

Source: 2411280-02

Prepared & Analyzed: 11/18/24

Boron 4.72 2.00 mg/L 5.00 0.376 86.8 75-125

Matrix Spike Dup (BHK0912-MSD1)

Source: 2411280-02

Prepared & Analyzed: 11/18/24

Boron 4.76 2.00 mg/L 5.00 0.376 87.8 75-125 1.03 25

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PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHK0907 - EPA 3050B

Blank (BHK0907-BLK1)

Prepared: 11/18/24 Analyzed: 11/19/24

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 (BHK0907-BS1)

Prepared: 11/18/24 Analyzed: 11/19/24

Arsenic	38.8	0.200	mg/kg wet	40.3	96.2	80-120
Barium	39.3	0.400	"	40.3	97.4	80-120
Cadmium	1.93	0.200	"	2.02	95.6	80-120
Copper	39.8	0.400	"	40.3	98.6	80-120
Lead	18.9	0.200	"	20.2	93.6	80-120
Nickel	39.8	0.400	"	40.3	98.6	80-120
Silver	2.11	0.0200	"	2.02	105	80-120
Zinc	40.0	0.400	"	40.3	99.2	80-120
Selenium	4.01	0.260	"	4.03	99.5	80-120

Duplicate (BHK0907-DUP1)

Source: 2411280-02

Prepared: 11/18/24 Analyzed: 11/19/24

Arsenic	3.69	0.200	mg/kg dry	4.01	8.38	20
Barium	67.8	0.400	"	69.1	1.88	20
Cadmium	0.261	0.200	"	0.273	4.68	20
Copper	4.29	0.400	"	4.64	7.95	20
Lead	6.44	0.200	"	7.12	9.95	20
Nickel	5.70	0.400	"	6.17	7.84	20
Silver	0.0330	0.0200	"	0.0541	48.6	20
Zinc	20.4	0.400	"	21.9	6.71	20
Selenium	0.178	0.260	"	0.196	9.52	20

QR-01

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Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

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 BHK0907 - EPA 3050B

Matrix Spike (BHK0907-MS1)

Source: 2411280-02

Prepared: 11/18/24 Analyzed: 11/19/24

Arsenic	51.0	0.200	mg/kg dry	49.9	4.01	94.2	75-125			
Barium	103	0.400	"	49.9	69.1	68.6	75-125			QM-05
Cadmium	2.64	0.200	"	2.50	0.273	95.0	75-125			
Copper	38.1	0.400	"	49.9	4.64	67.0	75-125			QM-05
Lead	29.4	0.200	"	25.0	7.12	89.4	75-125			
Nickel	37.1	0.400	"	49.9	6.17	61.9	75-125			QM-05
Silver	3.10	0.0200	"	2.50	0.0541	122	75-125			
Zinc	52.5	0.400	"	49.9	21.9	61.5	75-125			QM-05
Selenium	4.33	0.260	"	4.99	0.196	82.9	75-125			

Matrix Spike Dup (BHK0907-MSD1)

Source: 2411280-02

Prepared: 11/18/24 Analyzed: 11/19/24

Arsenic	52.9	0.200	mg/kg dry	50.7	4.01	96.5	75-125	3.69	25	
Barium	125	0.400	"	50.7	69.1	110	75-125	18.8	25	
Cadmium	2.72	0.200	"	2.54	0.273	96.3	75-125	2.69	25	
Copper	35.8	0.400	"	50.7	4.64	61.5	75-125	6.17	25	QM-05
Lead	30.4	0.200	"	25.4	7.12	91.7	75-125	3.10	25	
Nickel	38.0	0.400	"	50.7	6.17	62.7	75-125	2.39	25	QM-05
Silver	3.17	0.0200	"	2.54	0.0541	123	75-125	2.25	25	
Zinc	53.2	0.400	"	50.7	21.9	61.8	75-125	1.19	25	QM-05
Selenium	4.48	0.260	"	5.07	0.196	84.5	75-125	3.37	25	

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Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHK0883 - 3060A Mod

Blank (BHK0883-BLK1)

Prepared: 11/16/24 Analyzed: 11/17/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHK0883-BS1)

Prepared: 11/16/24 Analyzed: 11/17/24

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BHK0883-DUP1)

Source: 2411280-02

Prepared: 11/16/24 Analyzed: 11/17/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHK0883-MS1)

Source: 2411280-02

Prepared: 11/16/24 Analyzed: 11/17/24

Chromium, Hexavalent 34.5 0.30 mg/kg dry 31.7 ND 109 75-125

Matrix Spike Dup (BHK0883-MSD1)

Source: 2411280-02

Prepared: 11/16/24 Analyzed: 11/17/24

Chromium, Hexavalent 34.0 0.30 mg/kg dry 31.7 ND 107 75-125 1.30 20

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Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

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

Summit Scientific

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

Batch BHK0870 - General Preparation

Blank (BHK0870-BLK1)

Prepared: 11/15/24 Analyzed: 11/18/24

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

LCS (BHK0870-BS1)

Prepared: 11/15/24 Analyzed: 11/18/24

Calcium	5.06	0.0500	mg/L wet	5.00		101	70-130			
Magnesium	4.90	0.0500	"	5.00		98.0	70-130			
Sodium	5.09	0.0500	"	5.00		102	70-130			

Summit Scientific

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Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

Batch BHK0879 - General Preparation

Blank (BHK0879-BLK1)

Prepared & Analyzed: 11/16/24

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BHK0879-BS1)

Prepared & Analyzed: 11/16/24

Chloride	3.04	0.0600	mg/L	3.00	101	90-110
Sulfate	15.2	0.300	"	15.0	101	90-110

Duplicate (BHK0879-DUP1)

Source: 2411168-01

Prepared & Analyzed: 11/16/24

Chloride	18.1	0.0600	mg/L	18.5		2.00	20
Sulfate	399	0.300	"	408		2.25	20

Matrix Spike (BHK0879-MS1)

Source: 2411168-01

Prepared & Analyzed: 11/16/24

Chloride	167	0.0600	mg/L	150	18.5	99.0	80-120
Sulfate	1130	0.300	"	750	408	96.9	80-120

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Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

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 BHK0920 - General Preparation

Duplicate (BHK0920-DUP1)		Source: 2411280-02			Prepared & Analyzed: 11/18/24			
% Solids	77.0		%		78.9		2.36	20

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Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BHK0902 - General Preparation

Blank (BHK0902-BLK1)

Prepared: 11/18/24 Analyzed: 11/20/24

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BHK0902-DUP1)

Source: 2410558-15

Prepared: 11/18/24 Analyzed: 11/20/24

Total Dissolved Solids 1140 10.0 mg/L 1130 0.881 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

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

Summit Scientific

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

Batch BHK0871 - General Preparation

Blank (BHK0871-BLK1)

Prepared: 11/15/24 Analyzed: 11/19/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHK0871-BS1)

Prepared: 11/15/24 Analyzed: 11/19/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHK0871-DUP1)

Source: 2411075-01

Prepared: 11/15/24 Analyzed: 11/19/24

Specific Conductance (EC) 0.565 0.0100 mmhos/cm 0.575 1.65 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
 Project Manager: Paul Henchan

Reported:
 11/21/24 08:15

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

Summit Scientific

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

Batch BHK0872 - General Preparation

LCS (BHK0872-BS1)

Prepared: 11/15/24 Analyzed: 11/19/24

pH	9.27		pH Units	9.18		101	95-105			
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Duplicate (BHK0872-DUP1)

Source: 2411075-01

Prepared: 11/15/24 Analyzed: 11/19/24

pH	8.27		pH Units	8.29		0.242	20			
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Kreps Excavation

Project Number: CO24-246
Project Manager: Paul Henchan

Reported:
11/21/24 08:15

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-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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