

TABLE 1
SUMMARY OF SOIL CHEMISTRY DATA
PDC ENERGY INC.
PHELPS 11-32 SEPARATOR, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-233

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl - Naphthalene (mg/kg)	EC (mmhos/cm)	SAR (unit)	Arsenic (mg/kg)	Barium (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	30	27	2	500**		18	24	<4	<6	0.68	15000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.0081	0.0087	0.0038	500**		0.006	0.019			0.29	82
Waste Char	8/22/2023	0.2	0.120	0.440	0.23	0.07	520	130	0.208	0.25	0.0119	12.6	0.594	129
N-2	8/23/2023	2	<0.0020	<0.0050	<0.0050	<0.0038	<0.50	<50	<0.00500	<0.00500	0.815	3.6	0.916	51.5
E-2	8/23/2023	2	<0.0020	<0.0050	<0.0050	<0.0038	<0.50	<50	<0.00500	<0.00500	9.78	7.78	0.767	142
W-2	8/23/2023	2	<0.0020	<0.0050	<0.0050	<0.0038	<0.50	<50	<0.00500	<0.00500	1.13	3.97	0.801	129
S-2	8/23/2023	2	<0.0020	<0.0050	<0.0050	<0.0038	<0.50	<50	<0.00500	<0.00500	0.156	0.654	0.805	37
F2-5	8/23/2023	5	<0.0020	<0.0050	<0.0050	<0.0038	<0.50	<50	<0.00500	<0.00500	0.514	2.27	0.949	43.6

Bold faced values exceed the ECMC Table 915-1 concentrations

Red, blue and yellow highlighted values indicate an exceedance of the referenced soil screening level (SSL)

Red = Residential SSL, Blue = Protection of groundwater SSL, and Yellow= Soil Suitability for Reclamation

* Indicates laboratory minimum detection limit in excess of SSL

** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

Green shaded samples indicate this soil was removed during subsequent excavation

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
PDC ENERGY INC.
PHELPS 11-32 CHZ, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-233

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
Waste Char	8/22/2023	0.2	0.12	0.64	0.04	1.4	0.44	0.23	0.069	520	130	<50
N-2	8/23/2023	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
E-2	8/23/2023	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
W-2	8/23/2023	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
S-2	8/23/2023	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
F2-5	8/23/2023	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

Green shaded samples indicate this soil was removed during subsequent excavation

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
PDC ENERGY INC.
PHELPS 11-32 CHZ WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-233

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
Waste Char	8/22/2023	0.2	<0.00500	<0.00500	0.00590	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0283	<0.00500	<0.00500	0.208	0.250
N-2	8/23/2023	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
E-2	8/23/2023	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
W-2	8/23/2023	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
S-2	8/23/2023	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
F2-5	8/23/2023	5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Green shaded samples indicate this soil was removed during subsequent excavation

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
PDC ENERGY INC.
PHELPS 11-32 CHZ, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-233

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Waste Char	8/22/2023	0.2	6.58	0.0119	12.6	0.146
N-2	8/23/2023	2	8.06	0.815	3.60	<0.0100
E-2	8/23/2023	2	6.45	9.78	7.78	0.0524
W-2	8/23/2023	2	7.73	1.13	3.97	<0.0100
S-2	8/23/2023	2	8.21	0.156	0.654	<0.0100
F2-5	8/23/2023	5	7.70	0.514	2.27	<0.0100

Bold faced values exceed the ECMC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

NA - Not analyzed

Green shaded samples indicate this soil was removed during subsequent excavation

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
PDC ENERGY INC.
PHELPS SEPARATOR, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-233

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Waste Char	8/22/2023	0.2	0.594	129	<0.200	<0.30	1.89	9.11	2.12	<0.260	0.0404	8.63
N-2	8/23/2023	2	0.916	51.5	<0.200	<0.30	2.20	4.80	2.31	<0.260	<0.0200	8.05
E-2	8/23/2023	2	0.767	142	<0.200	<0.30	2.28	9.20	2.49	<0.260	0.0554	9.73
W-2	8/23/2023	2	0.801	129	0.219	<0.30	2.89	8.74	2.41	<0.260	0.0535	10.3
S-2	8/23/2023	2	0.805	37.0	<0.200	<0.30	1.93	3.46	2.07	<0.260	<0.0200	7.78
F2-5	8/23/2023	5	0.949	43.6	<0.200	<0.30	2.4	3.74	1.56	<0.260	<0.0200	6.38

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Green shaded samples indicate this soil was removed during subsequent excavation

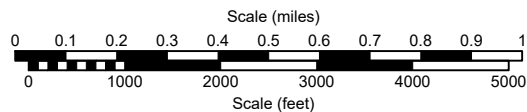
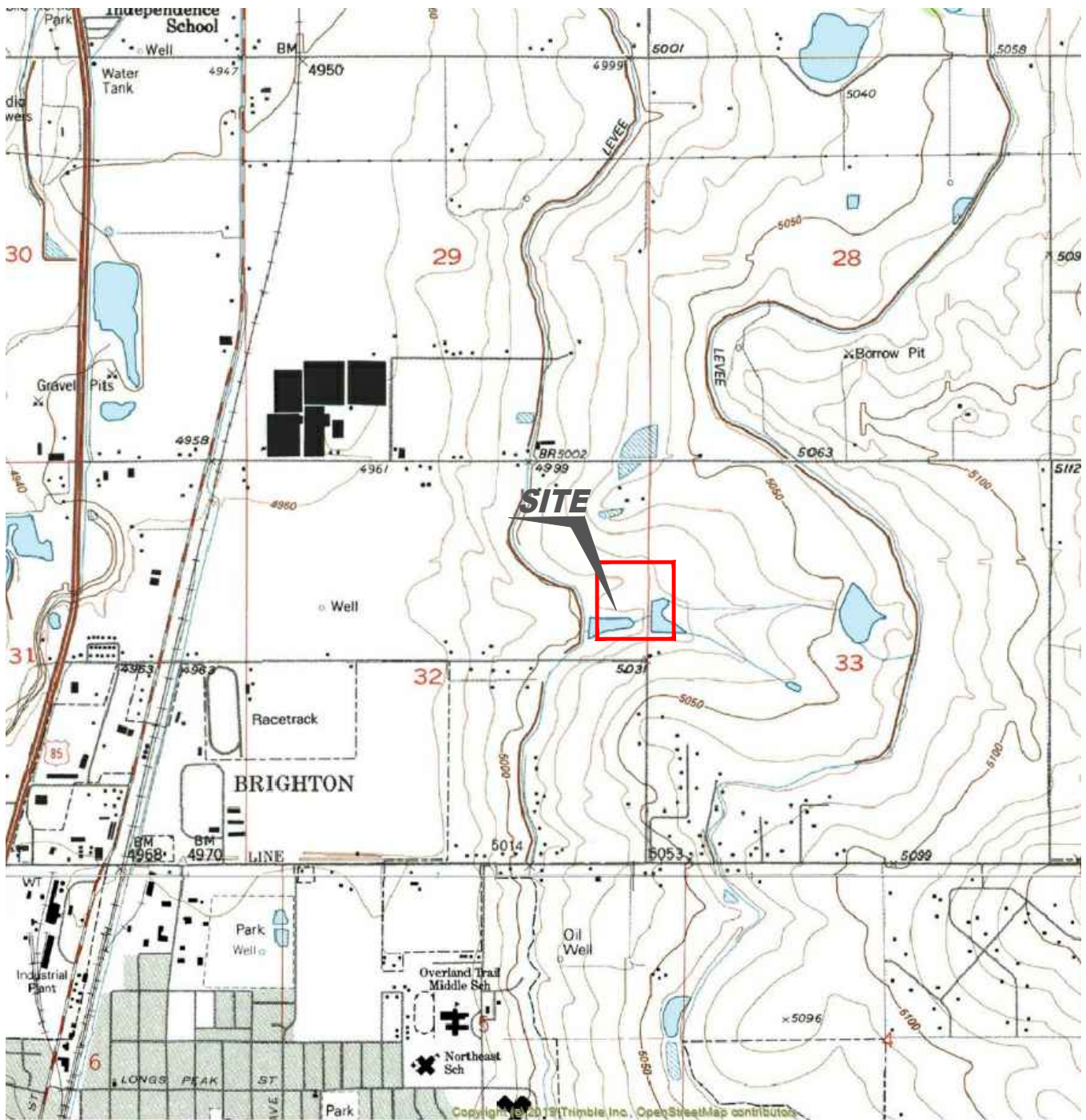
TABLE 6
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
PDC ENERGY INC.
PHELPS 11-32 CHZ, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-233

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl- Benzene (µg/L)	1,3,5- Trimethyl- Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
SEP GW	08/23/23	14	<1.0	<1.0	22	<1.0	4.7	<1.0	NM	NM	NM	NP

Bold face values exceed the COGCC limits

Red highlighted 915-1 Limits indicate the referenced groundwater screening level

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

PDC ENERGY, INC. ~ PHELPS 11-32CHZ
SENE Section 32, T1N, R66W, 6th PM
Weld County, Colorado
40.01110°, -104.79257°

Project No. C023-233	API #	Facility # 433548
Date 9/6/2023	Remediation #	Filename 23233T

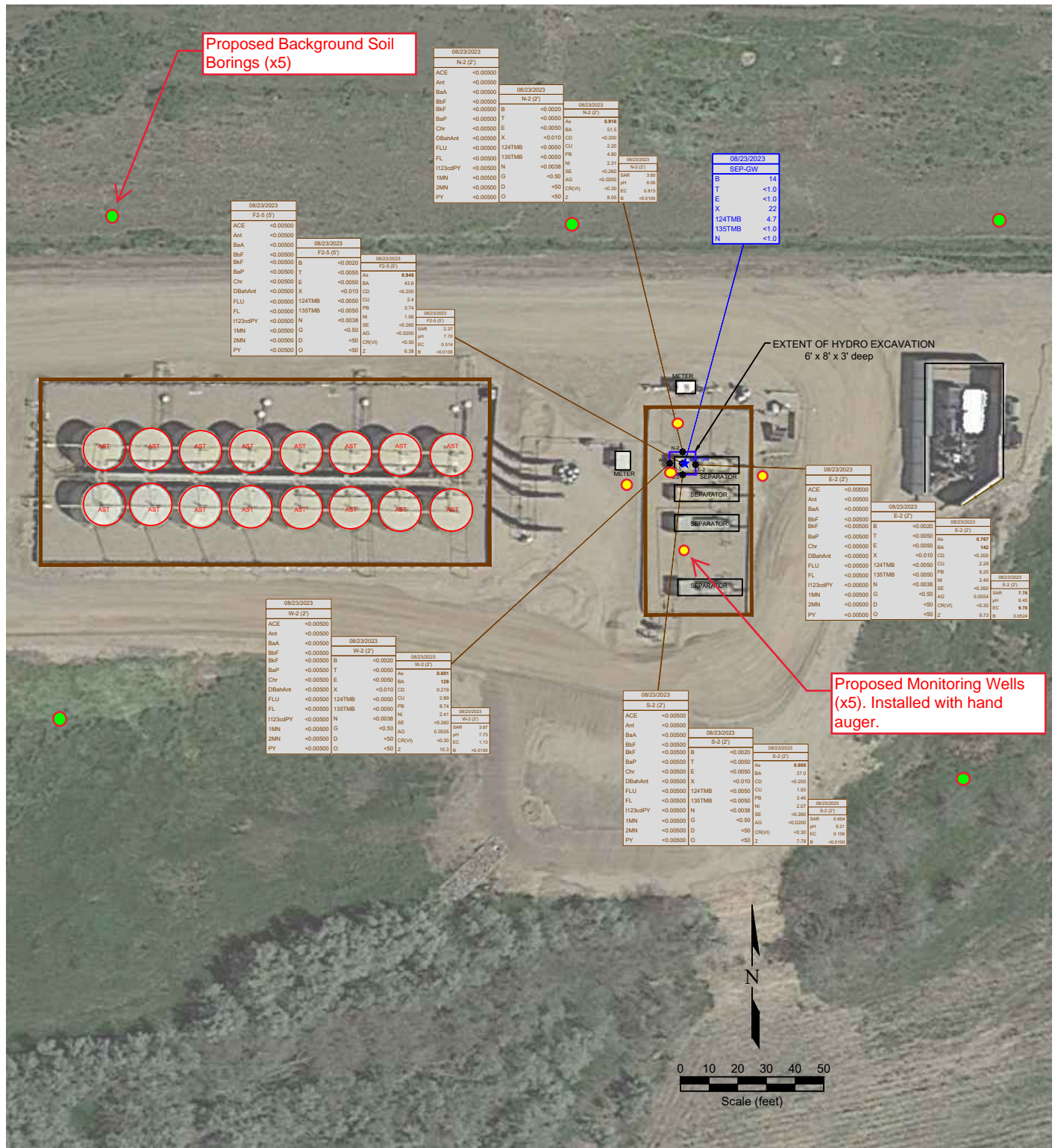




PDC ENERGY, INC. ~ PHELPS 11-32CHZ
SENE Section 32, T1N, R66W, 6th PM
Weld County, Colorado
40.01110°, -104.79257°

Project No. C023-233	API #	Facility # 433548
Date 9/6/2023	Remediation #	Filename 23233Q





DATE SAMPLED	SAMPLE ID & DEPTH (ft)	DATE SAMPLED	SAMPLE ID & DEPTH (ft)	DATE SAMPLED	SAMPLE ID & DEPTH (ft)
08/23/2023	N-2 (2')	08/23/2023	W-2 (2')	08/23/2023	S-2 (2')
ACE	<0.00500	ACE	<0.00500	ACE	<0.00500
Ant	<0.00500	Ant	<0.00500	Ant	<0.00500
BaA	<0.00500	BaA	<0.00500	BaA	<0.00500
BaF	<0.00500	BaF	<0.00500	BaF	<0.00500
BaP	<0.00500	BaP	<0.00500	BaP	<0.00500
Chr	<0.00500	Chr	<0.00500	Chr	<0.00500
DBahAnt	<0.00500	DBahAnt	<0.00500	DBahAnt	<0.00500
FLU	<0.00500	FLU	<0.00500	FLU	<0.00500
FL	<0.00500	FL	<0.00500	FL	<0.00500
1123cdPY	<0.00500	1123cdPY	<0.00500	1123cdPY	<0.00500
1MN	<0.00500	1MN	<0.00500	1MN	<0.00500
2MN	<0.00500	2MN	<0.00500	2MN	<0.00500
PY	<0.00500	PY	<0.00500	PY	<0.00500

Figure 4


PROPOSED MONITORING WELLS

PDC ENERGY, INC. ~ PHELPS 11-32CHZ

SENE Section 32, T1N, R66W, 6th PM

Weld County, Colorado

40.01110°, -104.79257°

Project No. C023-233	API #	Facility # 433548	
Date 9/6/2023	Remediation #	Filename 23233Q	

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 25, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: PDC - Phelps 11-32 CHZ

Work Order #2308488

Enclosed are the results of analyses for samples received by Summit Scientific on 08/22/23 17:30. 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 11-32 CHZ Project Number: [none] Project Manager: Paul Henehan	Reported: 08/25/23 07:37
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Waste Char	2308488-01	Soil	08/22/23 00:00	08/22/23 17:30

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.

2308488

Summit Scientific

S₂

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 TEAM

City/State/Zip:

Phone:

Project Name: PHELPS 11-32 CHZ

Sampler Name: HENEHAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested										Special Instructions				
					HCl	HNO ₃	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	WASTE CHAR	8/22/23		2			✓			✓				✓	✓	✓	✓	✓	✓								
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
PAH/FE	8/22/23 1730	[Signature]	82223 1730	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: 8.8 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2308488Client: Emment Client Project ID: Phelps 11-32CH2Shipped 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) 8.8 Thermometer # 1

	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"/>	on ice
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.
AS
Custodian Printed Name

8/22/23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/25/23 07:37

Waste Char
2308488-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.12	0.0020	mg/kg	1	BGH0900	08/22/23	08/22/23	EPA 8260B	
Toluene	0.64	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.042	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.4	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.44	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.23	0.0050	"	"	"	"	"	"	
Naphthalene	0.069	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	520	5.0	"	10	"	"	08/22/23	"	

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0460	115 %	50-150		"	"	08/22/23	"	
Surrogate: Toluene-d8	0.0491	123 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0759	190 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	130	50	mg/kg	1	BGH0901	08/22/23	08/22/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.5	92.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/25/23 07:37

Waste Char
2308488-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0910	08/23/23	08/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00590	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	0.0283	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.208	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.250	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.146	0.0100	mg/L	1	BGH0907	08/23/23	08/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/22/23 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 - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/25/23 07:37

Waste Char
2308488-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.594	0.200	mg/kg dry	1	BGH0904	08/23/23	08/24/23	EPA 6020B
Barium	129	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.89	0.400	"	"	"	"	"	"
Lead	9.11	0.200	"	"	"	"	"	"
Nickel	2.12	0.400	"	"	"	"	"	"
Silver	0.0404	0.0200	"	"	"	"	"	"
Zinc	8.63	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0927	08/23/23	08/24/23	EPA 7196A	

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

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	671	0.0587	mg/L dry	1	BGH0869	08/22/23	08/24/23	EPA 6020B	
Magnesium	133	0.0587	"	"	"	"	"	"	
Sodium	1360	0.0587	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.6	0.00100	units	1	BGH1017	08/24/23	08/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henahan

Reported:
08/25/23 07:37

Waste Char
2308488-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.2		%	1	BGH0903	08/23/23	08/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0119	0.0100	mmhos/cm	1	BGH0919	08/23/23	08/23/23	EPA 120.1	

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

Date Sampled: **08/22/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.58		pH Units	1	BGH0920	08/23/23	08/23/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

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 BGH0900 - EPA 5030 Soil MS

Blank (BGH0900-BLK1)

Prepared: 08/22/23 Analyzed: 08/23/23

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	0.0275		"	0.0400		68.7	50-150			
Surrogate: Toluene-d8	0.0383		"	0.0400		95.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0313		"	0.0400		78.2	50-150			

LCS (BGH0900-BS1)

Prepared: 08/22/23 Analyzed: 08/23/23

Benzene	0.0827	0.0020	mg/kg	0.100		82.7	70-130			
Toluene	0.0919	0.0050	"	0.100		91.9	70-130			
Ethylbenzene	0.0902	0.0050	"	0.100		90.2	70-130			
m,p-Xylene	0.168	0.010	"	0.200		84.0	70-130			
o-Xylene	0.0727	0.0050	"	0.100		72.7	70-130			
1,2,4-Trimethylbenzene	0.0710	0.0050	"	0.100		71.0	70-130			
1,3,5-Trimethylbenzene	0.0707	0.0050	"	0.100		70.7	70-130			
Naphthalene	0.103	0.0038	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0282		"	0.0400		70.6	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0313		"	0.0400		78.2	50-150			

Matrix Spike (BGH0900-MS1)

Source: 2308486-01

Prepared: 08/22/23 Analyzed: 08/23/23

Benzene	0.0776	0.0020	mg/kg	0.100	ND	77.6	70-130			
Toluene	0.0887	0.0050	"	0.100	ND	88.7	70-130			
Ethylbenzene	0.0849	0.0050	"	0.100	ND	84.9	70-130			
m,p-Xylene	0.158	0.010	"	0.200	ND	79.2	70-130			
o-Xylene	0.0660	0.0050	"	0.100	ND	66.0	70-130			QM-07
1,2,4-Trimethylbenzene	0.0711	0.0050	"	0.100	ND	71.1	70-130			
1,3,5-Trimethylbenzene	0.0634	0.0050	"	0.100	ND	63.4	70-130			QM-07
Naphthalene	0.134	0.0038	"	0.100	ND	134	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0287		"	0.0400		71.8	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0321		"	0.0400		80.3	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

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 BGH0900 - EPA 5030 Soil MS

Matrix Spike Dup (BGH0900-MSD1)		Source: 2308486-01			Prepared: 08/22/23 Analyzed: 08/23/23					
Benzene	0.0774	0.0020	mg/kg	0.100	ND	77.4	70-130	0.271	30	
Toluene	0.0891	0.0050	"	0.100	ND	89.1	70-130	0.439	30	
Ethylbenzene	0.0845	0.0050	"	0.100	ND	84.5	70-130	0.461	30	
m,p-Xylene	0.159	0.010	"	0.200	ND	79.3	70-130	0.0757	30	
o-Xylene	0.0646	0.0050	"	0.100	ND	64.6	70-130	2.25	30	QM-07
1,2,4-Trimethylbenzene	0.0684	0.0050	"	0.100	ND	68.4	70-130	3.87	30	QM-07
1,3,5-Trimethylbenzene	0.0618	0.0050	"	0.100	ND	61.8	70-130	2.54	30	QM-07
Naphthalene	0.137	0.0038	"	0.100	ND	137	70-130	1.75	30	QM-07
Surrogate: 1,2-Dichloroethane-d4		0.0286	"	0.0400		71.5	50-150			
Surrogate: Toluene-d8		0.0393	"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene		0.0317	"	0.0400		79.4	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/25/23 07:37

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 BGH0901 - EPA 3550A

Blank (BGH0901-BLK1)

Prepared & Analyzed: 08/22/23

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

Surrogate: o-Terphenyl	12.1	"	12.5	96.9	30-150
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LCS (BGH0901-BS1)

Prepared & Analyzed: 08/22/23

C10-C28 (DRO)	452	50	mg/kg	500	90.5	70-130
Surrogate: o-Terphenyl	11.5	"	12.5	92.3	30-150	

Matrix Spike (BGH0901-MS1)

Source: 2308486-01

Prepared: 08/22/23 Analyzed: 08/23/23

C10-C28 (DRO)	465	50	mg/kg	500	10.2	91.0	70-130
Surrogate: o-Terphenyl	11.8	"	12.5	94.4	30-150		

Matrix Spike Dup (BGH0901-MSD1)

Source: 2308486-01

Prepared: 08/22/23 Analyzed: 08/23/23

C10-C28 (DRO)	470	50	mg/kg	500	10.2	91.9	70-130	1.03	20
Surrogate: o-Terphenyl	11.9	"	12.5	95.0	30-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0910 - EPA 5030 Soil MS

Blank (BGH0910-BLK1)

Prepared & Analyzed: 08/23/23

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	0.0339	"	0.0333	102	40-150
Surrogate: Fluoranthene-d10	0.0213	"	0.0333	63.9	40-150

LCS (BGH0910-BS1)

Prepared & Analyzed: 08/23/23

Acenaphthene	0.0326	0.00500	mg/kg	0.0333	97.9	31-137
Anthracene	0.0340	0.00500	"	0.0333	102	30-120
Benzo (a) anthracene	0.0256	0.00500	"	0.0333	76.7	30-120
Benzo (a) pyrene	0.0338	0.00500	"	0.0333	101	30-120
Benzo (b) fluoranthene	0.0199	0.00500	"	0.0333	59.6	30-120
Benzo (k) fluoranthene	0.0355	0.00500	"	0.0333	106	30-120
Chrysene	0.0351	0.00500	"	0.0333	105	30-120
Dibenz (a,h) anthracene	0.0333	0.00500	"	0.0333	99.8	30-120
Fluoranthene	0.0326	0.00500	"	0.0333	97.7	30-120
Fluorene	0.0318	0.00500	"	0.0333	95.5	30-120
Indeno (1,2,3-cd) pyrene	0.0378	0.00500	"	0.0333	113	30-120
Pyrene	0.0378	0.00500	"	0.0333	113	35-142
1-Methylnaphthalene	0.0352	0.00500	"	0.0333	106	35-142
2-Methylnaphthalene	0.0391	0.00500	"	0.0333	117	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0310	"	0.0333	92.9	40-150
Surrogate: Fluoranthene-d10	0.0287	"	0.0333	86.0	40-150

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0910 - EPA 5030 Soil MS

Matrix Spike (BGH0910-MS1)

Source: 2308245-01

Prepared & Analyzed: 08/23/23

Acenaphthene	0.0169	0.00500	mg/kg	0.0333	ND	50.8	31-137		
Anthracene	0.0202	0.00500	"	0.0333	ND	60.7	30-120		
Benzo (a) anthracene	0.0181	0.00500	"	0.0333	ND	54.4	30-120		
Benzo (a) pyrene	0.0194	0.00500	"	0.0333	ND	58.3	30-120		
Benzo (b) fluoranthene	0.0185	0.00500	"	0.0333	ND	55.4	30-120		
Benzo (k) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.3	30-120		
Chrysene	0.0202	0.00500	"	0.0333	ND	60.5	30-120		
Dibenz (a,h) anthracene	0.0239	0.00500	"	0.0333	ND	71.6	30-120		
Fluoranthene	0.0205	0.00500	"	0.0333	ND	61.6	30-120		
Fluorene	0.0198	0.00500	"	0.0333	ND	59.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0240	0.00500	"	0.0333	ND	71.9	30-120		
Pyrene	0.0220	0.00500	"	0.0333	ND	66.1	35-142		
1-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.4	15-130		
2-Methylnaphthalene	0.0190	0.00500	"	0.0333	ND	57.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0158		"	0.0333		47.3	40-150		
Surrogate: Fluoranthene-d10	0.0187		"	0.0333		56.2	40-150		

Matrix Spike Dup (BGH0910-MSD1)

Source: 2308245-01

Prepared & Analyzed: 08/23/23

Acenaphthene	0.0176	0.00500	mg/kg	0.0333	ND	52.9	31-137	4.02	30
Anthracene	0.0188	0.00500	"	0.0333	ND	56.4	30-120	7.32	30
Benzo (a) anthracene	0.0164	0.00500	"	0.0333	ND	49.1	30-120	10.3	30
Benzo (a) pyrene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	6.81	30
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	11.7	30
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.4	30-120	13.1	30
Chrysene	0.0182	0.00500	"	0.0333	ND	54.7	30-120	10.1	30
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0333	ND	60.3	30-120	17.1	30
Fluoranthene	0.0188	0.00500	"	0.0333	ND	56.3	30-120	8.96	30
Fluorene	0.0187	0.00500	"	0.0333	ND	56.2	30-120	5.32	30
Indeno (1,2,3-cd) pyrene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	14.1	30
Pyrene	0.0204	0.00500	"	0.0333	ND	61.1	35-142	7.88	30
1-Methylnaphthalene	0.0173	0.00500	"	0.0333	ND	51.8	15-130	10.2	50
2-Methylnaphthalene	0.0237	0.00500	"	0.0333	ND	71.0	15-130	21.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0185		"	0.0333		55.5	40-150		
Surrogate: Fluoranthene-d10	0.0170		"	0.0333		51.0	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

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 BGH0907 - EPA 3050B

Blank (BGH0907-BLK1)

Prepared: 08/23/23 Analyzed: 08/24/23

Boron ND 0.0100 mg/L

LCS (BGH0907-BS1)

Prepared: 08/23/23 Analyzed: 08/24/23

Boron 5.62 0.0100 mg/L 5.00 112 80-120

Duplicate (BGH0907-DUP1)

Source: 2307517-03

Prepared: 08/23/23 Analyzed: 08/24/23

Boron 0.117 0.0100 mg/L 0.139 16.9 20

Matrix Spike (BGH0907-MS1)

Source: 2307517-03

Prepared: 08/23/23 Analyzed: 08/24/23

Boron 5.85 0.0100 mg/L 5.00 0.139 114 75-125

Matrix Spike Dup (BGH0907-MSD1)

Source: 2307517-03

Prepared: 08/23/23 Analyzed: 08/24/23

Boron 5.83 0.0100 mg/L 5.00 0.139 114 75-125 0.261 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

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 BGH0904 - EPA 3050B

Blank (BGH0904-BLK1)

Prepared: 08/23/23 Analyzed: 08/24/23

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 (BGH0904-BS1)

Prepared: 08/23/23 Analyzed: 08/24/23

Arsenic	38.1	0.200	mg/kg wet	40.0	95.1	80-120
Barium	43.6	0.400	"	40.0	109	80-120
Cadmium	2.14	0.200	"	2.00	107	80-120
Copper	37.5	0.400	"	40.0	93.7	80-120
Lead	21.9	0.200	"	20.0	109	80-120
Nickel	36.9	0.400	"	40.0	92.3	80-120
Silver	2.09	0.0200	"	2.00	104	80-120
Zinc	38.5	0.400	"	40.0	96.1	80-120

Duplicate (BGH0904-DUP1)

Source: 2308486-01

Prepared: 08/23/23 Analyzed: 08/24/23

Arsenic	0.654	0.200	mg/kg dry	0.547	17.8	20	QR-01
Barium	12.2	0.400	"	12.3	0.638	20	
Cadmium	0.0197	0.200	"	0.0322	48.1	20	
Copper	0.530	0.400	"	0.587	10.2	20	
Lead	2.52	0.200	"	2.75	8.77	20	
Nickel	0.554	0.400	"	0.636	13.8	20	QR-01
Silver	0.0125	0.0200	"	0.0120	3.92	20	
Zinc	3.04	0.400	"	3.83	23.1	20	
Selenium	ND	0.260	"	ND		200	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

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 BGH0904 - EPA 3050B

Matrix Spike (BGH0904-MS1)

Source: 2308486-01

Prepared: 08/23/23 Analyzed: 08/24/23

Arsenic	22.9	0.200	mg/kg dry	48.0	0.547	46.5	75-125			QM-01
Barium	61.5	0.400	"	48.0	12.3	103	75-125			
Cadmium	2.51	0.200	"	2.40	0.0322	103	75-125			
Copper	22.6	0.400	"	48.0	0.587	45.8	75-125			QM-01
Lead	26.0	0.200	"	24.0	2.75	96.9	75-125			
Nickel	22.7	0.400	"	48.0	0.636	46.0	75-125			QM-01
Silver	2.35	0.0200	"	2.40	0.0120	97.2	75-125			
Zinc	26.0	0.400	"	48.0	3.83	46.3	75-125			QM-01

Matrix Spike Dup (BGH0904-MSD1)

Source: 2308486-01

Prepared: 08/23/23 Analyzed: 08/24/23

Arsenic	20.6	0.200	mg/kg dry	48.0	0.547	41.8	75-125	10.3	25	QM-01
Barium	64.4	0.400	"	48.0	12.3	109	75-125	4.61	25	
Cadmium	2.32	0.200	"	2.40	0.0322	95.4	75-125	7.94	25	
Copper	20.7	0.400	"	48.0	0.587	41.9	75-125	8.69	25	QM-01
Lead	24.8	0.200	"	24.0	2.75	91.7	75-125	4.92	25	
Nickel	20.8	0.400	"	48.0	0.636	42.0	75-125	8.69	25	QM-01
Silver	2.20	0.0200	"	2.40	0.0120	91.3	75-125	6.20	25	
Zinc	24.5	0.400	"	48.0	3.83	43.1	75-125	6.07	25	QM-01

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 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/25/23 07:37

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 BGH0927 - 3060A Mod

Blank (BGH0927-BLK1)

Prepared: 08/23/23 Analyzed: 08/24/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0927-BS1)

Prepared: 08/23/23 Analyzed: 08/24/23

Chromium, Hexavalent 25.9 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BGH0927-DUP1)

Source: 2308412-01

Prepared: 08/23/23 Analyzed: 08/24/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0927-MS1)

Source: 2308412-01

Prepared: 08/23/23 Analyzed: 08/24/23

Chromium, Hexavalent 27.6 0.30 mg/kg dry 28.1 ND 98.2 75-125

Matrix Spike Dup (BGH0927-MSD1)

Source: 2308412-01

Prepared: 08/23/23 Analyzed: 08/24/23

Chromium, Hexavalent 27.6 0.30 mg/kg dry 28.1 ND 98.2 75-125 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

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	Notes

Batch BGH0869 - General Preparation

Blank (BGH0869-BLK1)

Prepared: 08/22/23 Analyzed: 08/23/23

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

LCS (BGH0869-BS1)

Prepared: 08/22/23 Analyzed: 08/23/23

Calcium	5.34	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.21	0.0500	"	5.00	104	70-130
Sodium	5.17	0.0500	"	5.00	103	70-130

Summit Scientific

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



Fremont Environmental	Project: PDC - Phelps 11-32 CHZ	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/25/23 07:37

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

Summit Scientific

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

Batch BGH0903 - General Preparation

Duplicate (BGH0903-DUP1)	Source: 2308437-01			Prepared & Analyzed: 08/23/23						
% Solids	94.1		%		94.9			0.846	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

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 BGH0919 - General Preparation

Blank (BGH0919-BLK1)

Prepared & Analyzed: 08/23/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0919-BS1)

Prepared & Analyzed: 08/23/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BGH0919-DUP1)

Source: 2308486-01

Prepared & Analyzed: 08/23/23

Specific Conductance (EC) 1.12 0.0100 mmhos/cm 1.12 0.00 20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

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

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

Batch BGH0920 - General Preparation

LCS (BGH0920-BS1)

Prepared & Analyzed: 08/23/23

pH	9.23	pH Units	9.18	101	95-105
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Duplicate (BGH0920-DUP1)

Source: 2308419-20

Prepared & Analyzed: 08/23/23

pH	7.46	pH Units	7.46	0.00	20
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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 11-32 CHZ

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/25/23 07:37

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 less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

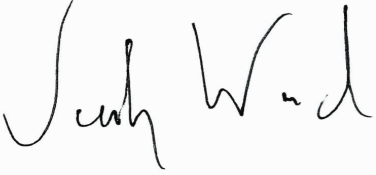
303.277.9310

August 31, 2023

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Phelps
Work Order #2308529

Enclosed are the results of analyses for samples received by Summit Scientific on 08/23/23 16:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N-2	2308529-01	Soil	08/23/23 00:00	08/23/23 16:47
E-2	2308529-02	Soil	08/23/23 00:00	08/23/23 16:47
W-2	2308529-03	Soil	08/23/23 00:00	08/23/23 16:47
S-2	2308529-04	Soil	08/23/23 00:00	08/23/23 16:47
F2-5	2308529-05	Soil	08/23/23 00:00	08/23/23 16:47
SEP GW	2308529-06	Water	08/23/23 00:00	08/23/23 16:47

Summit Scientific

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

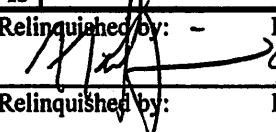
SUMMIT SCIENTIFIC

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

Lab ID	Page	of
2308529		

Client: Fremont Environmental	Send Data To: Project Manager: Paul Henehan	Send Invoice To: Company: Fremont Environmental PDC
Address:	E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip:	NickL, PaulH, EthanB, @fremontenv.com	AFE#:
Phone: (720)-252-7191	Project Name: Welds	PO/Billing Codes:
Sampler Name: Nick	Project Number: CO23-233	Contact: NickL and PaulH @ Fremontenv.com

					Preservative				Matrix				Analysis Requested						Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBETX +TMBs	TPH	PAH	915 Metals	Boron, EC, pH, SAR	TDS, Chloride, Sulfate		
1	N-2	8/23		3			X			X			X	X	X	X	X			
2	E-2			1																
3	W-2			1																
4	S-2			1																
5	F2-5			2			X			X				X	X	X	X			
6	SEP GW	8/23		4	3		1		X				X			X	X	X		
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: 	Date/Time: 8/23/23 16:47	Received by: J. H. Weld	Date/Time: 8/23/23 16:47	TAT Business Days	Field DO	Notes: Bill PDC
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 10.2	Corrected Temperature:	IR gun #: 2	HNO3 lot #:			

S₂

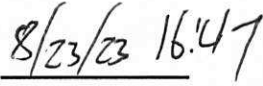
Sample Receipt Checklist

S2 Work Order# 2308529Client: Fremont Client Project ID: phelp SShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☒ Other ☐Temp (°C) 10.2 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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


 Custodian Printed Name


 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

N-2
2308529-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0958	08/23/23	08/23/23	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: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0430	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0346	86.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0283	70.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0959	08/23/23	08/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.1	121 %	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: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

N-2
2308529-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0976	08/24/23	08/24/23	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: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0231	69.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BGH0970	08/24/23	08/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

N-2
2308529-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.916	0.200	mg/kg dry	1	BGH0986	08/24/23	08/25/23	EPA 6020B
Barium	51.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.20	0.400	"	"	"	"	"	"
Lead	4.80	0.200	"	"	"	"	"	"
Nickel	2.31	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	8.05	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0984	08/24/23	08/24/23	EPA 7196A	

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

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.2	0.0562	mg/L dry	1	BGH0960	08/23/23	08/25/23	EPA 6020B	
Magnesium	11.7	0.0562	"	"	"	"	"	"	
Sodium	96.6	0.0562	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.60	0.00100	units	1	BGH1122	08/28/23	08/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

N-2
2308529-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BGH0969	08/24/23	08/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.815	0.0100	mmhos/cm	1	BGH0965	08/24/23	08/24/23	EPA 120.1	

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

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BGH0966	08/24/23	08/24/23	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

E-2
2308529-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0958	08/23/23	08/23/23	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: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0284	71.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0310	77.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0959	08/23/23	08/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.3	122 %	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: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

E-2
2308529-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0976	08/24/23	08/24/23	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: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0159	47.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0524	0.0100	mg/L	1	BGH0970	08/24/23	08/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

E-2
2308529-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.767	0.200	mg/kg dry	1	BGH0986	08/24/23	08/25/23	EPA 6020B
Barium	142	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.28	0.400	"	"	"	"	"	"
Lead	9.20	0.200	"	"	"	"	"	"
Nickel	2.49	0.400	"	"	"	"	"	"
Silver	0.0554	0.0200	"	"	"	"	"	"
Zinc	9.73	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0984	08/24/23	08/24/23	EPA 7196A	

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

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	675	0.0592	mg/L dry	1	BGH0960	08/23/23	08/25/23	EPA 6020B	
Magnesium	208	0.0592	"	"	"	"	"	"	
Sodium	901	0.0592	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.78	0.00100	units	1	BGH1122	08/28/23	08/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

E-2
2308529-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BGH0969	08/24/23	08/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	9.78	0.0100	mmhos/cm	1	BGH0965	08/24/23	08/24/23	EPA 120.1	

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

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.45		pH Units	1	BGH0966	08/24/23	08/24/23	EPA 9045D	

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Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

W-2
2308529-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0958	08/23/23	08/23/23	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: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0270	67.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0304	76.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0959	08/23/23	08/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.2	121 %	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: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

W-2
2308529-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0976	08/24/23	08/25/23	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: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BGH0970	08/24/23	08/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/23/23 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 - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

W-2
2308529-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.801	0.200	mg/kg dry	1	BGH0986	08/24/23	08/25/23	EPA 6020B
Barium	129	0.400	"	"	"	"	"	"
Cadmium	0.219	0.200	"	"	"	"	"	"
Copper	2.89	0.400	"	"	"	"	"	"
Lead	8.74	0.200	"	"	"	"	"	"
Nickel	2.41	0.400	"	"	"	"	"	"
Silver	0.0535	0.0200	"	"	"	"	"	"
Zinc	10.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0984	08/24/23	08/24/23	EPA 7196A	

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

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	66.1	0.0619	mg/L dry	1	BGH0960	08/23/23	08/25/23	EPA 6020B	
Magnesium	19.7	0.0619	"	"	"	"	"	"	
Sodium	143	0.0619	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.97	0.00100	units	1	BGH1122	08/28/23	08/28/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/23/23 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 - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

W-2
2308529-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.7	%	1	BGH0969	08/24/23	08/24/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.13	0.0100	mmhos/cm	1	BGH0965	08/24/23	08/24/23	EPA 120.1	

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

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BGH0966	08/24/23	08/24/23	EPA 9045D	

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Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

S-2
2308529-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0958	08/23/23	08/23/23	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: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0276	69.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0310	77.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0959	08/23/23	08/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.6	125 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: PDC - Phelps
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Project Manager: Paul Henchan

Reported:
08/31/23 14:50

S-2
2308529-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0977	08/24/23	08/25/23	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: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0175	52.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0152	45.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BGH0970	08/24/23	08/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289
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Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

S-2
2308529-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.805	0.200	mg/kg dry	1	BGH0986	08/24/23	08/25/23	EPA 6020B
Barium	37.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.93	0.400	"	"	"	"	"	"
Lead	3.46	0.200	"	"	"	"	"	"
Nickel	2.07	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	7.78	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0984	08/24/23	08/24/23	EPA 7196A	

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

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.1	0.0541	mg/L dry	1	BGH0995	08/24/23	08/28/23	EPA 6020B	
Magnesium	8.91	0.0541	"	"	"	"	"	"	
Sodium	13.4	0.0541	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.654	0.00100	units	1	BGH1171	08/29/23	08/29/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

S-2
2308529-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BGH0969	08/24/23	08/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	1	BGH1012	08/24/23	08/25/23	EPA 120.1	

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

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BGH1009	08/24/23	08/25/23	EPA 9045D	

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PO Box 1289
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Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

F2-5
2308529-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGH0958	08/23/23	08/23/23	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: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0275	68.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0307	76.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGH0959	08/23/23	08/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.9	127 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: C023-233
Project Manager: Paul Henchan

Reported:
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F2-5
2308529-05 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0977	08/24/23	08/25/23	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: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BGH0970	08/24/23	08/25/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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F2-5
2308529-05 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.949	0.200	mg/kg dry	1	BGH0986	08/24/23	08/25/23	EPA 6020B
Barium	43.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.40	0.400	"	"	"	"	"	"
Lead	3.74	0.200	"	"	"	"	"	"
Nickel	1.56	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	6.38	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0984	08/24/23	08/24/23	EPA 7196A	

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

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.3	0.0607	mg/L dry	1	BGH0995	08/24/23	08/28/23	EPA 6020B	
Magnesium	13.5	0.0607	"	"	"	"	"	"	
Sodium	63.0	0.0607	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.27	0.00100	units	1	BGH1171	08/29/23	08/29/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: PDC - Phelps
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Project Manager: Paul Henchan

Reported:
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F2-5
2308529-05 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.4		%	1	BGH0969	08/24/23	08/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.514	0.0100	mmhos/cm	1	BGH1012	08/24/23	08/25/23	EPA 120.1	

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

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.70		pH Units	1	BGH1009	08/24/23	08/25/23	EPA 9045D	

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Project Manager: Paul Henchan

Reported:
08/31/23 14:50

SEP GW
2308529-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	14	1.0		ug/l	1	BGH0950	08/23/23	08/23/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	22	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.7	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	15.4	116 %		23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	13.3	99.8 %		20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	14.6	110 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	279	12.0		mg/L	200	BGH1016	08/24/23	08/28/23	EPA 300.0	
Sulfate	311	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **08/23/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1430	10.0		mg/L	1	BGH1014	08/24/23	08/24/23	SM2540C	

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Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGH0950 - EPA 5030 Water MS

Blank (BGH0950-BLK1)

Prepared: 08/23/23 Analyzed: 08/24/23

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	14.5		"	13.3		109	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.7	20-170			
Surrogate: 4-Bromofluorobenzene	15.6		"	13.3		117	21-167			

LCS (BGH0950-BS1)

Prepared: 08/23/23 Analyzed: 08/24/23

Benzene	38.4	1.0	ug/l	33.3		115	51-132			
Toluene	37.6	1.0	"	33.3		113	51-138			
Ethylbenzene	38.9	1.0	"	33.3		117	58-146			
m,p-Xylene	77.1	2.0	"	66.7		116	57-144			
o-Xylene	36.0	1.0	"	33.3		108	53-146			
Naphthalene	32.4	1.0	"	33.3		97.3	70-130			
1,2,4-Trimethylbenzene	36.7	1.0	"	33.3		110	70-130			
1,3,5-Trimethylbenzene	34.9	1.0	"	33.3		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.2		"	13.3		114	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	21-167			

Matrix Spike (BGH0950-MS1)

Source: 2308507-07

Prepared: 08/23/23 Analyzed: 08/24/23

Benzene	40.0	1.0	ug/l	33.3	ND	120	34-141			
Toluene	44.5	1.0	"	33.3	ND	133	27-151			
Ethylbenzene	41.6	1.0	"	33.3	ND	125	29-160			
m,p-Xylene	85.7	2.0	"	66.7	ND	129	20-166			
o-Xylene	39.1	1.0	"	33.3	ND	117	33-159			
Naphthalene	34.9	1.0	"	33.3	ND	105	70-130			
1,2,4-Trimethylbenzene	40.1	1.0	"	33.3	ND	120	70-130			
1,3,5-Trimethylbenzene	36.5	1.0	"	33.3	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.3		116	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	20-170			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	21-167			

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Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BGH0950 - EPA 5030 Water MS

Matrix Spike Dup (BGH0950-MSD1)			Source: 2308507-07		Prepared: 08/23/23 Analyzed: 08/24/23					
Benzene	37.8	1.0	ug/l	33.3	ND	113	34-141	5.73	30	
Toluene	39.8	1.0	"	33.3	ND	120	27-151	11.0	30	
Ethylbenzene	38.7	1.0	"	33.3	ND	116	29-160	7.12	30	
m,p-Xylene	80.0	2.0	"	66.7	ND	120	20-166	6.84	30	
o-Xylene	37.6	1.0	"	33.3	ND	113	33-159	3.96	30	
Naphthalene	30.0	1.0	"	33.3	ND	89.9	70-130	15.2	30	
1,2,4-Trimethylbenzene	37.0	1.0	"	33.3	ND	111	70-130	8.17	30	
1,3,5-Trimethylbenzene	34.2	1.0	"	33.3	ND	103	70-130	6.45	30	
Surrogate: 1,2-Dichloroethane-d4	16.8		"	13.3		126	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	14.7		"	13.3		110	21-167			

Batch BGH0958 - EPA 5030 Soil MS

Blank (BGH0958-BLK1)			Prepared: 08/23/23 Analyzed: 08/24/23							
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	0.0354		"	0.0400		88.6	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0367		"	0.0400		91.7	50-150			

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Project Manager: Paul Henchan

Reported:
08/31/23 14:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGH0958 - EPA 5030 Soil MS

LCS (BGH0958-BS1)

Prepared: 08/23/23 Analyzed: 08/24/23

Benzene	0.136	0.0020	mg/kg	0.125		109	70-130			
Toluene	0.136	0.0050	"	0.125		109	70-130			
Ethylbenzene	0.134	0.0050	"	0.125		107	70-130			
m,p-Xylene	0.266	0.010	"	0.250		106	70-130			
o-Xylene	0.130	0.0050	"	0.125		104	70-130			
1,2,4-Trimethylbenzene	0.132	0.0050	"	0.125		106	70-130			
1,3,5-Trimethylbenzene	0.127	0.0050	"	0.125		101	70-130			
Naphthalene	0.0988	0.0038	"	0.125		79.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

Matrix Spike (BGH0958-MS1)

Source: 2308533-01

Prepared: 08/23/23 Analyzed: 08/24/23

Benzene	0.127	0.0020	mg/kg	0.125	ND	101	70-130			
Toluene	0.132	0.0050	"	0.125	ND	106	70-130			
Ethylbenzene	0.136	0.0050	"	0.125	ND	109	70-130			
m,p-Xylene	0.270	0.010	"	0.250	ND	108	70-130			
o-Xylene	0.132	0.0050	"	0.125	ND	106	70-130			
1,2,4-Trimethylbenzene	0.143	0.0050	"	0.125	ND	115	70-130			
1,3,5-Trimethylbenzene	0.138	0.0050	"	0.125	ND	110	70-130			
Naphthalene	0.107	0.0038	"	0.125	ND	85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0345		"	0.0400		86.2	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0430		"	0.0400		107	50-150			

Matrix Spike Dup (BGH0958-MSD1)

Source: 2308533-01

Prepared: 08/23/23 Analyzed: 08/24/23

Benzene	0.126	0.0020	mg/kg	0.125	ND	101	70-130	0.308	30	
Toluene	0.128	0.0050	"	0.125	ND	102	70-130	3.46	30	
Ethylbenzene	0.131	0.0050	"	0.125	ND	105	70-130	3.37	30	
m,p-Xylene	0.260	0.010	"	0.250	ND	104	70-130	3.84	30	
o-Xylene	0.127	0.0050	"	0.125	ND	102	70-130	3.91	30	
1,2,4-Trimethylbenzene	0.132	0.0050	"	0.125	ND	105	70-130	8.34	30	
1,3,5-Trimethylbenzene	0.125	0.0050	"	0.125	ND	100	70-130	9.47	30	
Naphthalene	0.108	0.0038	"	0.125	ND	86.2	70-130	0.895	30	
Surrogate: 1,2-Dichloroethane-d4	0.0324		"	0.0400		80.9	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150			

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Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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 BGH0959 - EPA 3550A

Blank (BGH0959-BLK1)

Prepared: 08/23/23 Analyzed: 08/24/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	15.8		"	12.5		127	30-150			

LCS (BGH0959-BS1)

Prepared: 08/23/23 Analyzed: 08/24/23

C10-C28 (DRO)	506	50	mg/kg	500		101	70-130			
Surrogate: o-Terphenyl	15.7		"	12.5		126	30-150			

Matrix Spike (BGH0959-MS1)

Source: 2308533-01

Prepared: 08/23/23 Analyzed: 08/24/23

C10-C28 (DRO)	517	50	mg/kg	500	6.16	102	70-130			
Surrogate: o-Terphenyl	15.8		"	12.5		126	30-150			

Matrix Spike Dup (BGH0959-MSD1)

Source: 2308533-01

Prepared: 08/23/23 Analyzed: 08/24/23

C10-C28 (DRO)	530	50	mg/kg	500	6.16	105	70-130	2.43	20	
Surrogate: o-Terphenyl	16.2		"	12.5		130	30-150			

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Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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 BGH0976 - EPA 5030 Soil MS

Blank (BGH0976-BLK1)

Prepared & Analyzed: 08/24/23

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	0.0332		"	0.0333		99.7		40-150			
Surrogate: Fluoranthene-d10	0.0243		"	0.0333		72.8		40-150			

LCS (BGH0976-BS1)

Prepared & Analyzed: 08/24/23

Acenaphthene	0.0297	0.00500	mg/kg	0.0333		89.2		31-137			
Anthracene	0.0322	0.00500	"	0.0333		96.6		30-120			
Benzo (a) anthracene	0.0263	0.00500	"	0.0333		78.9		30-120			
Benzo (a) pyrene	0.0314	0.00500	"	0.0333		94.1		30-120			
Benzo (b) fluoranthene	0.0314	0.00500	"	0.0333		94.1		30-120			
Benzo (k) fluoranthene	0.0320	0.00500	"	0.0333		96.0		30-120			
Chrysene	0.0332	0.00500	"	0.0333		99.5		30-120			
Dibenz (a,h) anthracene	0.0373	0.00500	"	0.0333		112		30-120			
Fluoranthene	0.0299	0.00500	"	0.0333		89.6		30-120			
Fluorene	0.0296	0.00500	"	0.0333		88.7		30-120			
Indeno (1,2,3-cd) pyrene	0.0377	0.00500	"	0.0333		113		30-120			
Pyrene	0.0368	0.00500	"	0.0333		110		35-142			
1-Methylnaphthalene	0.0298	0.00500	"	0.0333		89.5		35-142			
2-Methylnaphthalene	0.0347	0.00500	"	0.0333		104		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0274		"	0.0333		82.2		40-150			
Surrogate: Fluoranthene-d10	0.0282		"	0.0333		84.5		40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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 BGH0976 - EPA 5030 Soil MS

Matrix Spike (BGH0976-MS1)

Source: 2308268-01RE1

Prepared & Analyzed: 08/24/23

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.4	31-137		
Anthracene	0.0234	0.00500	"	0.0333	ND	70.3	30-120		
Benzo (a) anthracene	0.0226	0.00500	"	0.0333	ND	67.7	30-120		
Benzo (a) pyrene	0.0254	0.00500	"	0.0333	ND	76.1	30-120		
Benzo (b) fluoranthene	0.0250	0.00500	"	0.0333	ND	75.0	30-120		
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.2	30-120		
Chrysene	0.0235	0.00500	"	0.0333	ND	70.5	30-120		
Dibenz (a,h) anthracene	0.0231	0.00500	"	0.0333	ND	69.3	30-120		
Fluoranthene	0.0249	0.00500	"	0.0333	ND	74.6	30-120		
Fluorene	0.0225	0.00500	"	0.0333	ND	67.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0295	0.00500	"	0.0333	ND	88.6	30-120		
Pyrene	0.0245	0.00500	"	0.0333	ND	73.4	35-142		
1-Methylnaphthalene	0.0254	0.00500	"	0.0333	ND	76.1	15-130		
2-Methylnaphthalene	0.0295	0.00500	"	0.0333	ND	88.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0225		"	0.0333		67.4	40-150		
Surrogate: Fluoranthene-d10	0.0218		"	0.0333		65.5	40-150		

Matrix Spike Dup (BGH0976-MSD1)

Source: 2308268-01RE1

Prepared & Analyzed: 08/24/23

Acenaphthene	0.0253	0.00500	mg/kg	0.0333	ND	76.0	31-137	14.9	30
Anthracene	0.0262	0.00500	"	0.0333	ND	78.6	30-120	11.2	30
Benzo (a) anthracene	0.0259	0.00500	"	0.0333	ND	77.7	30-120	13.7	30
Benzo (a) pyrene	0.0279	0.00500	"	0.0333	ND	83.7	30-120	9.42	30
Benzo (b) fluoranthene	0.0291	0.00500	"	0.0333	ND	87.3	30-120	15.2	30
Benzo (k) fluoranthene	0.0279	0.00500	"	0.0333	ND	83.6	30-120	20.3	30
Chrysene	0.0266	0.00500	"	0.0333	ND	79.9	30-120	12.4	30
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333	ND	74.2	30-120	6.84	30
Fluoranthene	0.0265	0.00500	"	0.0333	ND	79.4	30-120	6.33	30
Fluorene	0.0260	0.00500	"	0.0333	ND	77.9	30-120	14.1	30
Indeno (1,2,3-cd) pyrene	0.0303	0.00500	"	0.0333	ND	91.0	30-120	2.66	30
Pyrene	0.0253	0.00500	"	0.0333	ND	76.0	35-142	3.58	30
1-Methylnaphthalene	0.0295	0.00500	"	0.0333	ND	88.4	15-130	14.9	50
2-Methylnaphthalene	0.0348	0.00500	"	0.0333	ND	104	15-130	16.6	50
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333		70.6	40-150		
Surrogate: Fluoranthene-d10	0.0240		"	0.0333		71.9	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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 BGH0977 - EPA 5030 Soil MS

Blank (BGH0977-BLK1)

Prepared & Analyzed: 08/24/23

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	0.0306		"	0.0333		91.7		40-150			
Surrogate: Fluoranthene-d10	0.0285		"	0.0333		85.5		40-150			

LCS (BGH0977-BS1)

Prepared & Analyzed: 08/24/23

Acenaphthene	0.0369	0.00500	mg/kg	0.0333		111		31-137			
Anthracene	0.0358	0.00500	"	0.0333		107		30-120			
Benzo (a) anthracene	0.0287	0.00500	"	0.0333		86.0		30-120			
Benzo (a) pyrene	0.0339	0.00500	"	0.0333		102		30-120			
Benzo (b) fluoranthene	0.0363	0.00500	"	0.0333		109		30-120			
Benzo (k) fluoranthene	0.0354	0.00500	"	0.0333		106		30-120			
Chrysene	0.0360	0.00500	"	0.0333		108		30-120			
Dibenz (a,h) anthracene	0.0322	0.00500	"	0.0333		96.6		30-120			
Fluoranthene	0.0353	0.00500	"	0.0333		106		30-120			
Fluorene	0.0369	0.00500	"	0.0333		111		30-120			
Indeno (1,2,3-cd) pyrene	0.0249	0.00500	"	0.0333		74.8		30-120			
Pyrene	0.0374	0.00500	"	0.0333		112		35-142			
1-Methylnaphthalene	0.0290	0.00500	"	0.0333		87.0		35-142			
2-Methylnaphthalene	0.0402	0.00500	"	0.0333		120		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0345		"	0.0333		104		40-150			
Surrogate: Fluoranthene-d10	0.0326		"	0.0333		97.8		40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGH0977 - EPA 5030 Soil MS

Matrix Spike (BGH0977-MS1)

Source: 2308501-01

Prepared & Analyzed: 08/24/23

Acenaphthene	0.0209	0.00500	mg/kg	0.0333	ND	62.8	31-137		
Anthracene	0.0221	0.00500	"	0.0333	ND	66.4	30-120		
Benzo (a) anthracene	0.0169	0.00500	"	0.0333	ND	50.8	30-120		
Benzo (a) pyrene	0.0179	0.00500	"	0.0333	ND	53.8	30-120		
Benzo (b) fluoranthene	0.0206	0.00500	"	0.0333	ND	61.9	30-120		
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.8	30-120		
Chrysene	0.0221	0.00500	"	0.0333	ND	66.4	30-120		
Dibenz (a,h) anthracene	0.0188	0.00500	"	0.0333	ND	56.5	30-120		
Fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	30-120		
Fluorene	0.0213	0.00500	"	0.0333	ND	63.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0139	0.00500	"	0.0333	ND	41.8	30-120		
Pyrene	0.0238	0.00500	"	0.0333	ND	71.4	35-142		
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.5	15-130		
2-Methylnaphthalene	0.0230	0.00500	"	0.0333	ND	69.0	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0171		"	0.0333		51.2	40-150		
Surrogate: Fluoranthene-d10	0.0178		"	0.0333		53.4	40-150		

Matrix Spike Dup (BGH0977-MSD1)

Source: 2308501-01

Prepared & Analyzed: 08/24/23

Acenaphthene	0.0238	0.00500	mg/kg	0.0333	ND	71.5	31-137	12.9	30
Anthracene	0.0244	0.00500	"	0.0333	ND	73.3	30-120	9.94	30
Benzo (a) anthracene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	14.8	30
Benzo (a) pyrene	0.0196	0.00500	"	0.0333	ND	58.7	30-120	8.67	30
Benzo (b) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	9.36	30
Benzo (k) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.3	30-120	8.21	30
Chrysene	0.0240	0.00500	"	0.0333	ND	72.0	30-120	8.11	30
Dibenz (a,h) anthracene	0.0213	0.00500	"	0.0333	ND	63.8	30-120	12.0	30
Fluoranthene	0.0240	0.00500	"	0.0333	ND	72.0	30-120	10.4	30
Fluorene	0.0239	0.00500	"	0.0333	ND	71.7	30-120	11.5	30
Indeno (1,2,3-cd) pyrene	0.0150	0.00500	"	0.0333	ND	45.1	30-120	7.66	30
Pyrene	0.0249	0.00500	"	0.0333	ND	74.8	35-142	4.63	30
1-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.2	15-130	2.79	50
2-Methylnaphthalene	0.0264	0.00500	"	0.0333	ND	79.2	15-130	13.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0202		"	0.0333		60.6	40-150		
Surrogate: Fluoranthene-d10	0.0196		"	0.0333		58.7	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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 BGH0970 - EPA 3050B

Blank (BGH0970-BLK1)

Prepared: 08/24/23 Analyzed: 08/25/23

Boron ND 0.0100 mg/L

LCS (BGH0970-BS1)

Prepared: 08/24/23 Analyzed: 08/25/23

Boron 5.71 0.0100 mg/L 5.00 114 80-120

Duplicate (BGH0970-DUP1)

Source: 2308521-03

Prepared: 08/24/23 Analyzed: 08/25/23

Boron ND 0.0100 mg/L 0.0232 200 20 QR-01

Matrix Spike (BGH0970-MS1)

Source: 2308521-03

Prepared: 08/24/23 Analyzed: 08/25/23

Boron 6.18 0.0100 mg/L 5.00 0.0232 123 75-125

Matrix Spike Dup (BGH0970-MSD1)

Source: 2308521-03

Prepared: 08/24/23 Analyzed: 08/25/23

Boron 5.95 0.0100 mg/L 5.00 0.0232 119 75-125 3.76 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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 BGH0986 - EPA 3050B

Blank (BGH0986-BLK1)

Prepared: 08/24/23 Analyzed: 08/25/23

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 (BGH0986-BS1)

Prepared: 08/24/23 Analyzed: 08/25/23

Arsenic	44.3	0.200	mg/kg wet	40.0	111	80-120
Barium	45.1	0.400	"	40.0	113	80-120
Cadmium	2.26	0.200	"	2.00	113	80-120
Copper	45.2	0.400	"	40.0	113	80-120
Lead	22.9	0.200	"	20.0	115	80-120
Nickel	44.5	0.400	"	40.0	111	80-120
Silver	2.24	0.0200	"	2.00	112	80-120
Zinc	44.5	0.400	"	40.0	111	80-120

Duplicate (BGH0986-DUP1)

Source: 2308514-07

Prepared: 08/24/23 Analyzed: 08/25/23

Arsenic	1.69	0.200	mg/kg dry	1.21	33.6	20	QR-01
Barium	96.0	0.400	"	82.7	15.0	20	
Cadmium	0.140	0.200	"	0.167	17.1	20	
Copper	2.17	0.400	"	2.14	1.68	20	
Lead	6.99	0.200	"	8.79	22.9	20	QR-04
Nickel	2.35	0.400	"	2.64	11.7	20	
Silver	0.0233	0.0200	"	0.0238	2.11	20	
Zinc	8.83	0.400	"	9.35	5.68	20	
Selenium	ND	0.260	"	ND		200	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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 BGH0986 - EPA 3050B

Matrix Spike (BGH0986-MS1)			Source: 2308514-07		Prepared: 08/24/23 Analyzed: 08/25/23					
Arsenic	18.4	0.200	mg/kg dry	49.6	1.21	34.7	75-125			QM-01
Barium	157	0.400	"	49.6	82.7	151	75-125			QM-01
Cadmium	2.83	0.200	"	2.48	0.167	107	75-125			
Copper	19.7	0.400	"	49.6	2.14	35.5	75-125			QM-01
Lead	32.2	0.200	"	24.8	8.79	94.5	75-125			
Nickel	19.9	0.400	"	49.6	2.64	34.9	75-125			QM-01
Silver	2.67	0.0200	"	2.48	0.0238	107	75-125			
Zinc	27.0	0.400	"	49.6	9.35	35.5	75-125			QM-01

Matrix Spike Dup (BGH0986-MSD1)			Source: 2308514-07		Prepared: 08/24/23 Analyzed: 08/25/23					
Arsenic	18.6	0.200	mg/kg dry	49.6	1.21	35.0	75-125	0.676	25	QM-01
Barium	157	0.400	"	49.6	82.7	150	75-125	0.271	25	QM-01
Cadmium	2.85	0.200	"	2.48	0.167	108	75-125	0.786	25	
Copper	19.8	0.400	"	49.6	2.14	35.5	75-125	0.126	25	QM-01
Lead	32.0	0.200	"	24.8	8.79	93.6	75-125	0.650	25	
Nickel	20.1	0.400	"	49.6	2.64	35.3	75-125	1.00	25	QM-01
Silver	2.66	0.0200	"	2.48	0.0238	106	75-125	0.670	25	
Zinc	27.1	0.400	"	49.6	9.35	35.9	75-125	0.603	25	QM-01

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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 BGH0984 - 3060A Mod

Blank (BGH0984-BLK1)

Prepared & Analyzed: 08/24/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0984-BS1)

Prepared & Analyzed: 08/24/23

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BGH0984-DUP1)

Source: 2308477-01

Prepared & Analyzed: 08/24/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0984-MS1)

Source: 2308477-01

Prepared & Analyzed: 08/24/23

Chromium, Hexavalent 34.1 0.30 mg/kg dry 26.4 ND 129 75-125 QM-06

Matrix Spike Dup (BGH0984-MSD1)

Source: 2308477-01

Prepared & Analyzed: 08/24/23

Chromium, Hexavalent 35.5 0.30 mg/kg dry 26.4 ND 135 75-125 4.09 20 QM-06

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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	Notes

Batch BGH0960 - General Preparation

Blank (BGH0960-BLK1)

Prepared: 08/23/23 Analyzed: 08/25/23

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

LCS (BGH0960-BS1)

Prepared: 08/23/23 Analyzed: 08/25/23

Calcium	5.59	0.0500	mg/L wet	5.00	112	70-130
Magnesium	5.55	0.0500	"	5.00	111	70-130
Sodium	5.62	0.0500	"	5.00	112	70-130

Batch BGH0995 - General Preparation

Blank (BGH0995-BLK1)

Prepared: 08/24/23 Analyzed: 08/28/23

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

LCS (BGH0995-BS1)

Prepared: 08/24/23 Analyzed: 08/28/23

Calcium	3.95	0.0500	mg/L wet	5.00	79.1	70-130
Magnesium	5.31	0.0500	"	5.00	106	70-130
Sodium	5.36	0.0500	"	5.00	107	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BGH1016 - General Preparation

Blank (BGH1016-BLK1)

Prepared: 08/24/23 Analyzed: 08/28/23

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BGH1016-BS1)

Prepared: 08/24/23 Analyzed: 08/28/23

Chloride	3.19	0.0600	mg/L	3.00	106	90-110
Sulfate	16.5	0.300	"	15.0	110	90-110

Duplicate (BGH1016-DUP1)

Source: 2308512-01

Prepared: 08/24/23 Analyzed: 08/28/23

Chloride	293	12.0	mg/L	283	3.54	20
Sulfate	332	60.0	"	337	1.37	20

Matrix Spike (BGH1016-MS1)

Source: 2308512-01

Prepared: 08/24/23 Analyzed: 08/28/23

Chloride	871	12.0	mg/L	600	283	98.1	80-120
Sulfate	3360	60.0	"	3000	337	101	80-120

Summit Scientific

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Fremont Environmental	Project: PDC - Phelps	
PO Box 1289	Project Number: C023-233	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/31/23 14:50

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

Summit Scientific

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

Batch BGH0969 - General Preparation

Duplicate (BGH0969-DUP1)	Source: 2308521-03			Prepared & Analyzed: 08/24/23						
% Solids	80.4		%		80.0			0.412	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BGH1014 - General Preparation

Blank (BGH1014-BLK1)

Prepared & Analyzed: 08/24/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGH1014-DUP1)

Source: 2308510-01

Prepared & Analyzed: 08/24/23

Total Dissolved Solids 1800 10.0 mg/L 1690 6.64 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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 BGH0965 - General Preparation

Blank (BGH0965-BLK1)

Prepared & Analyzed: 08/24/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0965-BS1)

Prepared & Analyzed: 08/24/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BGH0965-DUP1)

Source: 2308514-07

Prepared & Analyzed: 08/24/23

Specific Conductance (EC) 0.838 0.0100 mmhos/cm 0.838 0.00 20

Batch BGH1012 - General Preparation

Blank (BGH1012-BLK1)

Prepared: 08/24/23 Analyzed: 08/25/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH1012-BS1)

Prepared: 08/24/23 Analyzed: 08/25/23

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

Duplicate (BGH1012-DUP1)

Source: 2307517-03

Prepared: 08/24/23 Analyzed: 08/25/23

Specific Conductance (EC) 0.357 0.0100 mmhos/cm 0.357 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Phelps
Project Number: C023-233
Project Manager: Paul Henchan

Reported:
08/31/23 14:50

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

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

Batch BGH0966 - General Preparation

LCS (BGH0966-BS1)

Prepared & Analyzed: 08/24/23

pH	9.23		pH Units	9.18	101	95-105
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Duplicate (BGH0966-DUP1)

Source: 2308514-07

Prepared & Analyzed: 08/24/23

pH	7.02		pH Units	7.02		0.00	20
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Batch BGH1009 - General Preparation

LCS (BGH1009-BS1)

Prepared: 08/24/23 Analyzed: 08/25/23

pH	9.25		pH Units	9.18	101	95-105
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Duplicate (BGH1009-DUP1)

Source: 2307517-03

Prepared: 08/24/23 Analyzed: 08/25/23

pH	7.61		pH Units	7.61		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: C023-233

Project Manager: Paul Henchan

Reported:

08/31/23 14:50

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-06	Due to noted non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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