

TABLE 1
FORMER TOEDTLI 22-2 PIT
SOIL ANALYTICAL RESULTS SUMMARY TABLE
INORGANIC COMPOUNDS

Sample ID	Date Sampled	Depth	pH (units)	EC (mmhos/cm)	SAR (units)	Boron (mg/L)
Soil Suitability for Reclamation Standard ⁽¹⁾			6-8.3	<4	<6	2
BH01 @ 1'	9/15/2021	1 ft. bgs	8.74	1.70	1.39	NA
BH01 @ 3'	9/15/2021	3 ft. bgs	8.11	4.59	1.82	NA
BH02 @ 1'	9/15/2021	1 ft. bgs	7.61	2.56	0.266	NA
BH02 @ 3'	9/15/2021	3 ft. bgs	7.90	7.84	0.370	NA
BH03 @ 1'	9/15/2021	1 ft. bgs	7.59	1.80	0.255	NA
BH03 @ 3'	9/15/2021	3 ft. bgs	7.58	5.58	0.216	NA
BH04 @ 1'	9/15/2021	1 ft. bgs	7.77	1.43	0.0552	NA
BH04 @ 3'	9/15/2021	3 ft. bgs	8.36	0.668	0.226	NA
BH05 @ 1'	9/15/2021	1 ft. bgs	7.98	1.56	0.581	NA
BH05 @ 3'	9/15/2021	3 ft. bgs	7.97	1.31	0.0715	NA
BH06 @ 1'	9/15/2021	1 ft. bgs	7.63	1.82	0.102	NA
BH06 @ 3'	9/15/2021	3 ft. bgs	8.02	0.789	0.0361	NA
BH07 @ 1'	9/15/2021	1 ft. bgs	7.82	1.63	0.0608	NA
BH07 @ 3'	9/15/2021	3 ft. bgs	7.98	1.20	0.0853	NA
BH08 @ 1'	9/15/2021	1 ft. bgs	7.77	1.85	0.0672	NA
BH08 @ 3'	9/15/2021	3 ft. bgs	8.08	1.52	0.222	NA
BH09 @ 1'	9/15/2021	1 ft. bgs	7.93	1.23	0.111	NA
BH09 @ 3'	9/15/2021	3 ft. bgs	7.95	2.12	0.252	NA
BH10 @ 1'	9/15/2021	1 ft. bgs	7.73	1.91	0.0584	NA
BH10 @ 3'	9/15/2021	3 ft. bgs	7.84	2.36	0.164	NA
BH11 @ 1'	9/15/2021	1 ft. bgs	7.95	1.33	0.181	NA
BH11 @ 3'	9/15/2021	3 ft. bgs	7.86	3.02	0.265	NA
BKG01 @ 1'	9/15/2021	1 ft. bgs	8.56	0.210	0.0521	NA
BKG01 @ 3'	9/15/2021	3 ft. bgs	8.31	0.212	0.0573	NA

Notes:

1. Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.

COGCC = Colorado Oil and Gas Conservation Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligram per liter

ft. = Feet

bgs = Below ground surface

BOLD = Analytical result is in exceedance of applicable standard.

BOLD = Analytical result is in exceedance of applicable standard, but below background concentration.

NA = Constituent not analyzed

**TABLE 2
FORMER TOEDTLI 22-2 PIT
FIELD DATA SUMMARY TABLE**

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
			Latitude	Longitude		
BH01 @ 1'	9/15/2021	1 ft. bgs	40.831171	-103.736546	NC	0.8
BH01 @ 3'	9/15/2021	3 ft. bgs	40.831171	-103.736546	NC	1.1
BH02 @ 1'	9/15/2021	1 ft. bgs	40.830998	-103.736533	NC	1.1
BH02 @ 3'	9/15/2021	3 ft. bgs	40.830998	-103.736533	NC	0.9
BH03 @ 1'	9/15/2021	1 ft. bgs	40.831162	-103.736762	NC	1.0
BH03 @ 3'	9/15/2021	3 ft. bgs	40.831162	-103.736762	NC	0.5
BH04 @ 1'	9/15/2021	1 ft. bgs	40.830943	-103.736752	NC	1.5
BH04 @ 3'	9/15/2021	3 ft. bgs	40.830943	-103.736752	NC	1.4
BH05 @ 1'	9/15/2021	1 ft. bgs	40.830722	-103.736744	NC	1.4
BH05 @ 3'	9/15/2021	3 ft. bgs	40.830722	-103.736744	NC	1.5
BH06 @ 1'	9/15/2021	1 ft. bgs	40.831140	-103.737039	NC	2.9
BH06 @ 3'	9/15/2021	3 ft. bgs	40.831140	-103.737039	NC	3.6
BH07 @ 1'	9/15/2021	1 ft. bgs	40.831115	-103.737324	NC	0.8
BH07 @ 3'	9/15/2021	3 ft. bgs	40.831115	-103.737324	NC	1.5
BH08 @ 1'	9/15/2021	1 ft. bgs	40.830929	-103.737031	NC	0.5
BH08 @ 3'	9/15/2021	3 ft. bgs	40.830929	-103.737031	NC	0.9
BH09 @ 1'	9/15/2021	1 ft. bgs	40.830930	-103.737327	NC	2.2
BH09 @ 3'	9/15/2021	3 ft. bgs	40.830930	-103.737327	NC	1.8
BH10 @ 1'	9/15/2021	1 ft. bgs	40.830695	-103.737009	NC	0.9
BH10 @ 3'	9/15/2021	3 ft. bgs	40.830695	-103.737009	NC	0.7
BH11 @ 1'	9/15/2021	1 ft. bgs	40.830697	-103.737317	NC	1.7
BH11 @ 3'	9/15/2021	3 ft. bgs	40.830697	-103.737317	NC	1.5
BKG01 @ 1'	9/15/2021	1 ft. bgs	40.831376	-103.736408	NC	2.1
BKG01 @ 3'	9/15/2021	3 ft. bgs	40.831376	-103.736408	NC	2.0

Notes:

1. Global Positioning System (GPS) data is provided in decimal degrees using World Geodetic System (WGS) 84 UTM Zone 13

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

PDOP = Position Dilution of Precision

ppm = Parts per million

ft. = Feet

bgs = Below ground surface

NC = Data not collected

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 28, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Toedtli 22-2

Work Order #2109238

Enclosed are the results of analyses for samples received by Summit Scientific on 09/15/21 14:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury

President



PDC Energy
 1775 Sherman St. STE. 3000
 Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 09/28/21 11:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@1'	2109238-01	Soil	09/15/21 09:48	09/15/21 14:40
BKG01@3'	2109238-02	Soil	09/15/21 09:49	09/15/21 14:40
BH01@1'	2109238-03	Soil	09/15/21 10:03	09/15/21 14:40
BH01@3'	2109238-04	Soil	09/15/21 10:04	09/15/21 14:40
BH02@1'	2109238-05	Soil	09/15/21 10:38	09/15/21 14:40
BH02@3'	2109238-06	Soil	09/15/21 10:39	09/15/21 14:40
BH03@1'	2109238-07	Soil	09/15/21 10:14	09/15/21 14:40
BH03@3'	2109238-08	Soil	09/15/21 10:15	09/15/21 14:40
BH04@1'	2109238-09	Soil	09/15/21 10:28	09/15/21 14:40
BH04@3'	2109238-10	Soil	09/15/21 10:29	09/15/21 14:40
BH05@1'	2109238-11	Soil	09/15/21 10:57	09/15/21 14:40
BH05@3'	2109238-12	Soil	09/15/21 10:59	09/15/21 14:40
BH06@1'	2109238-13	Soil	09/15/21 09:50	09/15/21 14:40
BH06@3'	2109238-14	Soil	09/15/21 09:52	09/15/21 14:40
BH07@1'	2109238-15	Soil	09/15/21 09:58	09/15/21 14:40
BH07@3'	2109238-16	Soil	09/15/21 10:00	09/15/21 14:40
BH08@1'	2109238-17	Soil	09/15/21 10:17	09/15/21 14:40
BH08@3'	2109238-18	Soil	09/15/21 10:19	09/15/21 14:40
BH09@1'	2109238-19	Soil	09/15/21 10:22	09/15/21 14:40
BH09@3'	2109238-20	Soil	09/15/21 10:24	09/15/21 14:40
BH10@1'	2109238-21	Soil	09/15/21 10:40	09/15/21 14:40
BH10@3'	2109238-22	Soil	09/15/21 10:42	09/15/21 14:40
BH11@1'	2109238-23	Soil	09/15/21 11:00	09/15/21 14:40
BH11@3'	2109238-24	Soil	09/15/21 11:01	09/15/21 14:40

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

2109238.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 3

Client: PDC / Tasman Project Manager: Mark Longhurst
Address: 6855 W 119th Ave E-Mail: mark.longhurst@PDCE.com
City/State/Zip: Broomfield/ CO/ 80020
Phone: 303-487-1228 Project Name: Toedli 22-2
Sampler Name: Sam Anderson Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR			
1	BK601 @ 1'	9/15/21	948	2			X			X										pH, EC, SAR by saturated paste
2	BK601 @ 3'		949																	
3	BH01 @ 1'		1003																	
4	BH01 @ 3'		1004																	
5	BH02 @ 1'		1038																	
6	BH02 @ 3'		1039																	
7	BH03 @ 1'		1014																	
8	BH03 @ 3'		1015																	
9	BH04 @ 1'		1028																	
10	BH04 @ 3'		1029																	

Relinquished by: 	Date/Time: 9/15/21 1440	Received by: Tasman's Lock Box	Date/Time: 9-15-21 14:40	Turn Around Time (Check)	Notes:
Relinquished by: Tasman's Lock Box	Date/Time:	Received by:	Date/Time:	Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>3.4</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

Summit Scientific

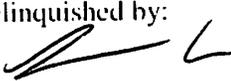
2109238.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 2 of 3

Client: PDC / Tasman Project Manager: Mark Longhurst
Address: 6855 W 119th Ave E-Mail: mark.longhurst@PDCI.com
City/State/Zip: Broomfield/ CO/ 80020
Phone: 303-487-1228 Project Name: Toedli 22-2
Sampler Name: Sam Anderson Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR		
1	BH05 @ 1'	9/15/21	1057	2			X			X									pH, EC, SAR by saturated paste
2	BH05 @ 3'		1059																
3	BH06 @ 1'		950																
4	BH06 @ 3'		952																
5	BH07 @ 1'		958																
6	BH07 @ 3'		1000																
7	BH08 @ 1'		1017																
8	BH08 @ 3'		1018																
9	BH09 @ 1'		1022																
10	BH09 @ 3'		1024																

Relinquished by:  Date/Time: 9/15/21 1446	Received by: Tasman's Lock Box  Date/Time: 9-15-21 14:40	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: 3.4 Samples Intact: Yes No	Notes:
Relinquished by: Tasman's Lock Box Date/Time:	Received by: Date/Time:		
Relinquished by: Date/Time:	Received by: Date/Time:		

Summit Scientific 2109238.3

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Client: PDC / Tasman Project Manager: Mark Longhurst
Address: 6855 W 119th Ave E-Mail: mark.longhurst@PDCI.com
City/State/Zip: Broomfield/ CO/ 80020
Phone: 303-487-1228 Project Name: Toxic 27-2
Sampler Name: Sam Anderson Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS		pH, EC, SAR
1	BH10 @ 1'	9/15/21	1040	1			X			X								pH, EC, SAR by saturated paste
2	BH10 @ 3'	↓	1042	↓			↓			↓								
3	BH11 @ 1'	↓	1100	↓			↓			↓								
4	BH11 @ 3'	↓	1101	↓			↓			↓								
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished by: 	Date/Time: 9/15/21 1440	Received by: Tasman's Lock Box	Date/Time: 9-15-21 14:40	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>3.4</u> Samples Intact: <input checked="" type="checkbox"/> Yes No	Notes:
Relinquished by: Tasman's Lock Box	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		



2109238

Sample Receipt Checklist

S2 Work Order# _____

Client: PDC (TASMAN) Client Project ID: TOEDTL1 22-2

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____ (Describe)

Temp (°C)	3.4
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°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"/>	
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"/>	
If custody seals are present, are they intact (1)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	
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"/>	
Is the COC properly relinquished by the client w/ date and time recorded (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, H2SO4, NaOH, HNO3, 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.

Muri P.
Custodian Printed Name or Initials

9-15-21
Date/Time



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BKG01@1'
2109238-01 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6.64	0.0564	mg/L dry	1	BEI0470	09/22/21	09/26/21	EPA 6020B	
Magnesium	0.677	0.0564	"	"	"	"	"	"	
Sodium	0.527	0.0564	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0521	0.00100	units	1	BEI0554	09/26/21	09/26/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.210	0.0100	mmhos/cm	1	BEI0471	09/22/21	09/23/21	EPA 120.1	

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

Date Sampled: **09/15/21 09:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BEI0473	09/22/21	09/23/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BKG01@3'
2109238-02 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 09:49**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	8.70	0.0566	mg/L dry	1	BEI0470	09/22/21	09/26/21	EPA 6020B	
Magnesium	0.668	0.0566	"	"	"	"	"	"	
Sodium	0.651	0.0566	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 09:49**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.0573	0.00100	units	1	BEI0554	09/26/21	09/26/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 09:49**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.4		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 09:49**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.212	0.0100	mmhos/cm	1	BEI0471	09/22/21	09/23/21	EPA 120.1	

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

Date Sampled: **09/15/21 09:49**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.31		pH Units	1	BEI0473	09/22/21	09/23/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH01@1'
2109238-03 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	7.53	0.0561	mg/L dry	1	BEI0470	09/22/21	09/26/21	EPA 6020B	
Magnesium	0.632	0.0561	"	"	"	"	"	"	
Sodium	14.8	0.0561	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.39	0.00100	units	1	BEI0554	09/26/21	09/26/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.70	0.0100	mmhos/cm	1	BEI0471	09/22/21	09/23/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.74		pH Units	1	BEI0473	09/22/21	09/23/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH01@3'
2109238-04 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4.68	0.0552	mg/L dry	1	BEI0470	09/22/21	09/26/21	EPA 6020B	
Magnesium	0.447	0.0552	"	"	"	"	"	"	
Sodium	15.4	0.0552	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.82	0.00100	units	1	BEI0554	09/26/21	09/26/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.6		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.59	0.0100	mmhos/cm	1	BEI0471	09/22/21	09/23/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BEI0473	09/22/21	09/23/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH02@1'
2109238-05 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	9.91	0.0548	mg/L dry	1	BEI0470	09/22/21	09/26/21	EPA 6020B	
Magnesium	1.07	0.0548	"	"	"	"	"	"	
Sodium	3.30	0.0548	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.266	0.00100	units	1	BEI0554	09/26/21	09/26/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.2		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.56	0.0100	mmhos/cm	1	BEI0471	09/22/21	09/23/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.61		pH Units	1	BEI0473	09/22/21	09/23/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH02@3'
2109238-06 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	16.1	0.0562	mg/L dry	1	BEI0470	09/22/21	09/26/21	EPA 6020B	
Magnesium	3.01	0.0562	"	"	"	"	"	"	
Sodium	6.16	0.0562	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.370	0.00100	units	1	BEI0554	09/26/21	09/26/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.0		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	7.84	0.0100	mmhos/cm	1	BEI0471	09/22/21	09/23/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.90		pH Units	1	BEI0473	09/22/21	09/23/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH03@1'
2109238-07 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	8.53	0.0552	mg/L dry	1	BEI0470	09/22/21	09/26/21	EPA 6020B	
Magnesium	0.977	0.0552	"	"	"	"	"	"	
Sodium	2.95	0.0552	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.255	0.00100	units	1	BEI0554	09/26/21	09/26/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.6		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.80	0.0100	mmhos/cm	1	BEI0471	09/22/21	09/23/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.59		pH Units	1	BEI0473	09/22/21	09/23/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH03@3'
2109238-08 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	16.6	0.0576	mg/L dry	1	BEI0470	09/22/21	09/26/21	EPA 6020B	
Magnesium	2.18	0.0576	"	"	"	"	"	"	
Sodium	3.52	0.0576	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.216	0.00100	units	1	BEI0554	09/26/21	09/26/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.8		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	5.58	0.0100	mmhos/cm	1	BEI0471	09/22/21	09/23/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.58		pH Units	1	BEI0473	09/22/21	09/23/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH04@1'
2109238-09 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	9.38	0.0560	mg/L dry	1	BEI0470	09/22/21	09/26/21	EPA 6020B	
Magnesium	1.00	0.0560	"	"	"	"	"	"	
Sodium	0.666	0.0560	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.0552	0.00100	units	1	BEI0554	09/26/21	09/26/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.3		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.43	0.0100	mmhos/cm	1	BEI0471	09/22/21	09/23/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.77		pH Units	1	BEI0473	09/22/21	09/23/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH04@3'
2109238-10 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.6	0.0570	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.13	0.0570	"	"	"	"	"	"	
Sodium	3.01	0.0570	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.226	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.668	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH05@1'
2109238-11 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	19.4	0.0556	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.77	0.0556	"	"	"	"	"	"	
Sodium	9.97	0.0556	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.581	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.9		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.56	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.98		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH05@3'
2109238-12 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	13.6	0.0556	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.30	0.0556	"	"	"	"	"	"	
Sodium	1.03	0.0556	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.0715	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.9		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.31	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.97		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH06@1'
2109238-13 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	8.68	0.0557	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	0.739	0.0557	"	"	"	"	"	"	
Sodium	1.17	0.0557	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.102	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.8		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.82	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.63		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH06@3'
2109238-14 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 09:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	7.98	0.0559	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	0.873	0.0559	"	"	"	"	"	"	
Sodium	0.402	0.0559	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 09:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.0361	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 09:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.5		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 09:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.789	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 09:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.02		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH07@1'
2109238-15 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 09:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	11.7	0.0548	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.05	0.0548	"	"	"	"	"	"	
Sodium	0.809	0.0548	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 09:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.0608	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 09:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.2		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 09:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.63	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 09:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.82		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH07@3'
2109238-16 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	15.4	0.0554	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.33	0.0554	"	"	"	"	"	"	
Sodium	1.30	0.0554	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.0853	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.3		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.20	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.98		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH08@1'
2109238-17 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.4	0.0561	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.16	0.0561	"	"	"	"	"	"	
Sodium	0.985	0.0561	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0672	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.1		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.85	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.77		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH08@3'
2109238-18 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	19.2	0.0562	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.92	0.0562	"	"	"	"	"	"	
Sodium	3.82	0.0562	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.222	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.0		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.52	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.08		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH09@1'
2109238-19 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	13.4	0.0561	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.38	0.0561	"	"	"	"	"	"	
Sodium	1.60	0.0561	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.111	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.2		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.23	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.93		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH09@3'
2109238-20 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.3	0.0579	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.58	0.0579	"	"	"	"	"	"	
Sodium	4.09	0.0579	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.252	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.4		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.12	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH10@1'
2109238-21 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.5	0.0559	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.08	0.0559	"	"	"	"	"	"	
Sodium	0.743	0.0559	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0584	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.91	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH10@3'
2109238-22 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 10:42**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	14.0	0.0570	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.57	0.0570	"	"	"	"	"	"	
Sodium	2.42	0.0570	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 10:42**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.164	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 10:42**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.7		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 10:42**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.36	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 10:42**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.84		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH11@1'
2109238-23 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	6.82	0.0563	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.09	0.0563	"	"	"	"	"	"	
Sodium	1.93	0.0563	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.181	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.9		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.33	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.95		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

BH11@3'
2109238-24 (Soil)

Summit Scientific

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

Date Sampled: **09/15/21 11:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	20.3	0.0589	mg/L dry	1	BEI0509	09/23/21	09/27/21	EPA 6020B	
Magnesium	1.89	0.0589	"	"	"	"	"	"	
Sodium	4.65	0.0589	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/15/21 11:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.265	0.00100	units	1	BEI0591	09/28/21	09/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/15/21 11:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.9		%	1	BEI0457	09/22/21	09/22/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/15/21 11:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	3.02	0.0100	mmhos/cm	1	BEI0513	09/23/21	09/24/21	EPA 120.1	

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

Date Sampled: **09/15/21 11:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.86		pH Units	1	BEI0512	09/23/21	09/24/21	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.



PDC Energy
 1775 Sherman St. STE. 3000
 Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 09/28/21 11:24

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

Summit Scientific

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

Batch BEI0470 - General Preparation

Blank (BEI0470-BLK1)

Prepared: 09/22/21 Analyzed: 09/25/21

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

LCS (BEI0470-BS1)

Prepared: 09/22/21 Analyzed: 09/25/21

Calcium	5.18	0.0500	mg/L wet	5.00		104	70-130			
Magnesium	5.02	0.0500	"	5.00		100	70-130			
Sodium	4.82	0.0500	"	5.00		96.4	70-130			

Batch BEI0509 - General Preparation

Blank (BEI0509-BLK1)

Prepared: 09/23/21 Analyzed: 09/27/21

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

LCS (BEI0509-BS1)

Prepared: 09/23/21 Analyzed: 09/27/21

Calcium	5.46	0.0500	mg/L wet	5.00		109	70-130			
Magnesium	4.98	0.0500	"	5.00		99.5	70-130			
Sodium	4.83	0.0500	"	5.00		96.6	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.



PDC Energy
 1775 Sherman St. STE. 3000
 Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 09/28/21 11:24

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

Summit Scientific

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

Batch BEI0457 - General Preparation

Duplicate (BEI0457-DUP1)

Source: 2109238-01

Prepared & Analyzed: 09/22/21

% Solids	88.8		%		88.6			0.225		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.



PDC Energy
 1775 Sherman St. STE. 3000
 Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 09/28/21 11:24

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

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

Batch BEI0471 - General Preparation

Blank (BEI0471-BLK1)										
					Prepared: 09/22/21 Analyzed: 09/23/21					
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BEI0471-BS1)										
					Prepared: 09/22/21 Analyzed: 09/23/21					
Specific Conductance (EC)	0.153	0.0100	mmhos/cm	0.150	102	90-110				
Duplicate (BEI0471-DUP1)										
					Source: 2109216-02		Prepared: 09/22/21 Analyzed: 09/23/21			
Specific Conductance (EC)	0.148	0.0100	mmhos/cm		0.151			1.54	20	

Batch BEI0513 - General Preparation

Blank (BEI0513-BLK1)										
					Prepared: 09/23/21 Analyzed: 09/24/21					
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BEI0513-BS1)										
					Prepared: 09/23/21 Analyzed: 09/24/21					
Specific Conductance (EC)	0.143	0.0100	mmhos/cm	0.150	95.3	90-110				
Duplicate (BEI0513-DUP1)										
					Source: 2109238-10		Prepared: 09/23/21 Analyzed: 09/24/21			
Specific Conductance (EC)	0.681	0.0100	mmhos/cm		0.668			1.85	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.



PDC Energy
 1775 Sherman St. STE. 3000
 Denver CO, 80203

Project: Toedtli 22-2

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 09/28/21 11:24

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

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

Batch BEI0473 - General Preparation

LCS (BEI0473-BS1)										
					Prepared: 09/22/21 Analyzed: 09/23/21					
pH	9.26		pH Units	9.21		101	95-105			
Duplicate (BEI0473-DUP1)										
					Source: 2109216-02 Prepared: 09/22/21 Analyzed: 09/23/21					
pH	8.12		pH Units	8.12		0.00	20			

Batch BEI0512 - General Preparation

LCS (BEI0512-BS1)										
					Prepared: 09/23/21 Analyzed: 09/24/21					
pH	9.27		pH Units	9.21		101	95-105			
Duplicate (BEI0512-DUP1)										
					Source: 2109238-10 Prepared: 09/23/21 Analyzed: 09/24/21					
pH	8.39		pH Units	8.36		0.358	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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Toedtli 22-2
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
09/28/21 11:24

Notes and Definitions

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