

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: BREITBURN OPERATING
Name:
ClientProj: 228907
GTA ProjNo: 111519-4

Site Addr: PREISS ROAD SITE

Sampled By: HOLLIS THOMAS/DARCY
Date Rec: 11/15/2019
Time Rec: 10:05 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	11/14/2019	2:35 PM	WATER
2	MW-3	11/14/2019	3:35 PM	WATER
3	MW-4	11/14/2019	2:20 PM	WATER
4	MW-5	11/14/2019	5:05 PM	WATER
5	MW-7	11/14/2019	3:50 PM	WATER
6	MW-8	11/14/2019	3:20 PM	WATER
7	MW-9	11/14/2019	2:55 PM	WATER
8	MW-10	11/14/2019	3:05 PM	WATER
9	MW-11	11/14/2019	4:45 PM	WATER
10	MW-13	11/14/2019	4:50 PM	WATER
11	MW-14	11/14/2019	4:30 PM	WATER
12	MW-15	11/14/2019	4:15 PM	WATER

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk L Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 1

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 2:35 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-1						
	CHLORIDE EPA 300.0	42	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	390	1.0	uS/cm@25C	LV	11/25/2019	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

DISS = DISSOLVED

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 2

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 3:35 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-3						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	340	1.0	uS/cm@25C	LV	11/25/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 3

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 2:20 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

SAMPLED BY: MI
HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-4						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	240	1.0	uS/cm@25C	LV	11/25/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 4

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 5:05 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-5						
	CHLORIDE EPA 300.0	390	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	1,400	1.0	uS/cm@25C	LV	11/25/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 5

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 3:50 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-7						
	CHLORIDE EPA 300.0	120	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	650	1.0	uS/cm@25C	LV	11/25/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 6

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 3:20 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-8						
	CHLORIDE EPA 300.0	67	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	480	1.0	uS/cm@25C	LV	11/25/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 7

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 2:55 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-9						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	130	1.0	uS/cm@25C	LV	11/25/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 8

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 3:05 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-10						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	220	1.0	uS/cm@25C	LV	11/25/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 9

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 4:45 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-11						
	CHLORIDE EPA 300.0	170	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	800	1.0	uS/cm@25C	LV	11/25/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 10

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 4:50 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-13						
	CHLORIDE EPA 300.0	290	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	1,200	1.0	uS/cm@25C	LV	11/25/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 11

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 4:30 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-14						
	CHLORIDE EPA 300.0	170	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	1,000	1.0	uS/cm@25C	LV	11/25/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907

LOCATION: PREISS ROAD SITE

GTA PROJECT NO: 111519-4

GTA SAMPLE NO: 12

DATE SAMPLED: 11/14/2019

TIME SAMPLED: 4:15 PM

DATE RECEIVED: 11/15/2019

TIME RECEIVED: 10:05 AM

MI
SAMPLED BY: HOLLIS THOMAS/DARCY**SAMPLE ANALYSIS**

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-15						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	11/25/2019	WATER
	CONDUCTIVITY SM2510-B	160	1.0	uS/cm@25C	LV	11/25/2019	WATER

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CHAIN OF CUSTODY

PROJECT NUMBER 228907	SITE NAME/ADDRESS Preiss Road Site	COMPANY/NAME Breit Burn Operating LP
SAMPLED BY HWT	COMPANY Darcy Consulting	GTA PROJECT # 111519-4

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-1	11/14/19	2:35	6. WTR	Cl ⁻ , Sp. Cond.
2	MW-3	↓	3:35		
3	MW-4	11/14/19	2:20		
4	MW-5		5:05		
5	MW-7		3:50		
6	MW-8		3:20		
7	MW-9		2:55		
8	MW-10		3:05		
9	MW-11		4:45		
10	MW-13		4:50		
11	MW-14		4:30		
12	MW-15	↓	4:15	↓	↓

BILL TO:

REPORT TO:

Breit Burn

Darcy Consulting

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

John W. [Signature] 11/15/19 10:05pm

Lisa V. [Signature] 11/15/19 10:05am

REQUESTED TAT

☒ STANDARD

☐ 1 BUSINESS DAY

☐ 2 BUSINESS DAYS

☐ 3 BUSINESS DAYS