

**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: 16-196
GTA ProjNo: 051322-14

Site Addr: SBC E-1

Sampled By: WPM/OMPC
Date Rec: 5/13/2022
Time Rec: 3:55 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	5/12/2022	1:10 PM	WATER
2	MW-3	5/12/2022	12:35 PM	WATER
3	MW-4	5/12/2022	12:50 PM	WATER
4	MW-5	5/12/2022	1:30 PM	WATER
5	MW-7	5/12/2022	12:15 PM	WATER
6	MW-8	5/12/2022	2:00 PM	WATER
7	MW-9	5/12/2022	1:45 PM	WATER
8	MW-10	5/12/2022	2:15 PM	WATER
9	MW-11	5/12/2022	2:35 PM	WATER
10	MW-13	5/12/2022	3:30 PM	WATER
11	MW-14	5/12/2022	2:50 PM	WATER
12	MW-15	5/12/2022	3:15 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 Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196

LOCATION: SBC E-1

GTA PROJECT NO: 051322-14

GTA SAMPLE NO: 1

DATE SAMPLED: 5/12/2022

TIME SAMPLED: 1:10 PM

DATE RECEIVED: 5/13/2022

TIME RECEIVED: 3:55 PM

MI

SAMPLED BY: WPM/OMPC

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-1

CHLORIDE EPA 300.0

CONDUCTIVITY SM2510-B

Concentration

18

310

LOD

10

1.0

Units

mg/L (PPM)

uS/cm@25C

Analyst

KC/TR

TR

Date Completed

5/19/2022

5/18/2022

Sample Matrix

WATER

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: 16-196
LOCATION: SBC E-1

GTA PROJECT NO: 051322-14

GTA SAMPLE NO: 2

DATE SAMPLED: 5/12/2022

TIME SAMPLED: 12:35 PM

DATE RECEIVED: 5/13/2022

TIME RECEIVED: 3:55 PM

MI
SAMPLED BY: WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-3

CHLORIDE EPA 300.0

CONDUCTIVITY SM2510-B

Concentration

ND

410

LOD

10

1.0

Units

mg/L (PPM)

uS/cm@25C

Analyst

KC/TR

TR

Date Completed

5/19/2022

5/18/2022

Sample Matrix

WATER

WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196
LOCATION: SBC E-1

GTA PROJECT NO: 051322-14

GTA SAMPLE NO: 3

DATE SAMPLED: 5/12/2022

TIME SAMPLED: 12:50 PM

DATE RECEIVED: 5/13/2022

TIME RECEIVED: 3:55 PM

MI
SAMPLED BY: WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-4

CHLORIDE EPA 300.0

CONDUCTIVITY SM2510-B

Concentration

ND

230

LOD

10

1.0

Units

mg/L (PPM)

uS/cm@25C

Analyst

KC/TR

TR

Date Completed

5/19/2022

5/18/2022

Sample Matrix

WATER

WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196

LOCATION: SBC E-1

GTA PROJECT NO: 051322-14

GTA SAMPLE NO: 4

DATE SAMPLED: 5/12/2022

TIME SAMPLED: 1:30 PM

DATE RECEIVED: 5/13/2022

TIME RECEIVED: 3:55 PM

SAMPLED BY: MI
WPM/OMPC**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	130	10	mg/L (PPM)	KC/TR	5/19/2022	WATER
	CONDUCTIVITY SM2510-B	650	1.0	uS/cm@25C	TR	5/18/2022	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196
LOCATION: SBC E-1

GTA PROJECT NO: 051322-14

GTA SAMPLE NO: 5

DATE SAMPLED: 5/12/2022

TIME SAMPLED: 12:15 PM

DATE RECEIVED: 5/13/2022

TIME RECEIVED: 3:55 PM

MI
SAMPLED BY: WPM/OMPC**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	77	10	mg/L (PPM)	KC/TR	5/19/2022	WATER
	CONDUCTIVITY SM2510-B	580	1.0	uS/cm@25C	TR	5/18/2022	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196
LOCATION: SBC E-1

GTA PROJECT NO: 051322-14

GTA SAMPLE NO: 6

DATE SAMPLED: 5/12/2022

TIME SAMPLED: 2:00 PM

DATE RECEIVED: 5/13/2022

TIME RECEIVED: 3:55 PM

MI
SAMPLED BY: WPM/OMPC**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	41	10	mg/L (PPM)	KC/TR	5/19/2022	WATER
	CONDUCTIVITY SM2510-B	390	1.0	uS/cm@25C	TR	5/18/2022	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196
LOCATION: SBC E-1

GTA PROJECT NO: 051322-14

GTA SAMPLE NO: 7

DATE SAMPLED: 5/12/2022

TIME SAMPLED: 1:45 PM

DATE RECEIVED: 5/13/2022

TIME RECEIVED: 3:55 PM

SAMPLED BY: MI
WPM/OMPC**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)	KC/TR	5/19/2022	WATER
	CONDUCTIVITY SM2510-B	99	1.0	uS/cm@25C	TR	5/18/2022	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196
LOCATION: SBC E-1GTA PROJECT NO: 051322-14
GTA SAMPLE NO: 8DATE SAMPLED: 5/12/2022
TIME SAMPLED: 2:15 PMDATE RECEIVED: 5/13/2022
TIME RECEIVED: 3:55 PMMI
SAMPLED BY: WPM/OMPC**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)	KC/TR	5/19/2022	WATER
	CONDUCTIVITY SM2510-B	230	1.0	uS/cm@25C	TR	5/18/2022	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196

LOCATION: SBC E-1

GTA PROJECT NO: 051322-14

GTA SAMPLE NO: 9

DATE SAMPLED: 5/12/2022

TIME SAMPLED: 2:35 PM

DATE RECEIVED: 5/13/2022

TIME RECEIVED: 3:55 PM

MI

SAMPLED BY: WPM/OMPC

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-11

CHLORIDE EPA 300.0

CONDUCTIVITY SM2510-B

Concentration**LOD****Units****Analyst****Date Completed****Sample Matrix**

210

10

mg/L (PPM)

KC/TR

5/19/2022

WATER

960

1.0

uS/cm@25C

TR

5/18/2022

WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196
LOCATION: SBC E-1GTA PROJECT NO: 051322-14
GTA SAMPLE NO: 10DATE SAMPLED: 5/12/2022
TIME SAMPLED: 3:30 PMDATE RECEIVED: 5/13/2022
TIME RECEIVED: 3:55 PMMI
SAMPLED BY: WPM/OMPC**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	130	10	mg/L (PPM)	KC/TR	5/19/2022	WATER
	CONDUCTIVITY SM2510-B	780	1.0	uS/cm@25C	TR	5/18/2022	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196
LOCATION: SBC E-1GTA PROJECT NO: 051322-14
GTA SAMPLE NO: 11DATE SAMPLED: 5/12/2022
TIME SAMPLED: 2:50 PMDATE RECEIVED: 5/13/2022
TIME RECEIVED: 3:55 PMMI
SAMPLED BY: WPM/OMPC**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	120	10	mg/L (PPM)	KC/TR	5/19/2022	WATER
	CONDUCTIVITY SM2510-B	750	1.0	uS/cm@25C	TR	5/18/2022	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 16-196
LOCATION: SBC E-1GTA PROJECT NO: 051322-14
GTA SAMPLE NO: 12DATE SAMPLED: 5/12/2022
TIME SAMPLED: 3:15 PMDATE RECEIVED: 5/13/2022
TIME RECEIVED: 3:55 PMMI
SAMPLED BY: WPM/OMPC**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)	KC/TR	5/19/2022	WATER
	CONDUCTIVITY SM2510-B	210	1.0	uS/cm@25C	TR	5/18/2022	WATER

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DISS = DISSOLVED

CHAIN OF CUSTODY

PROJECT NUMBER <i>16-196</i>	SITE NAME/ADDRESS <i>SBC E-1</i>	COMPANY/NAME <i>Breithorn</i>
SAMPLED BY <i>WPM</i>	COMPANY <i>ONPC</i>	GTA PROJECT # <i>051322-14</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
<i>1</i>	<i>MW-1</i>	<i>5-12-22</i>	<i>1310</i>	<i>H₂O</i>	<i>Chlorides + Conductivity</i>
<i>2</i>	<i>MW-3</i>		<i>1235</i>		
<i>3</i>	<i>MW-4</i>		<i>1250</i>		
<i>4</i>	<i>MW-5</i>		<i>1230</i>		
<i>5</i>	<i>MW-7</i>		<i>1215</i>		
<i>6</i>	<i>MW-8</i>		<i>1400</i>		
<i>7</i>	<i>MW-9</i>		<i>1345</i>		
<i>8</i>	<i>MW-10</i>		<i>1415</i>		
<i>9</i>	<i>MW-11</i>		<i>1435</i>		
<i>10</i>	<i>MW-13</i>		<i>1530</i>		
<i>11</i>	<i>MW-14</i>		<i>1450</i>		
<i>12</i>	<i>MW-15</i>		<i>1515</i>		

BILL TO:	TempRec: ☐ On Ice? ☐ ☐ Y ☐ N ☐	REPORT TO: <i>Dan Burton</i>
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RELEASED BY <i>[Signature]</i>	DATE/TIME <i>5-13-22 1555</i>	RECEIVED BY <i>[Signature]</i>	DATE/TIME <i>5/13/22 1555</i>
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REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS