



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: 00-038
GTA ProjNo: 051920-10

Site Addr: DYAR

Sampled By: MATTHEW SCOTT/OMPC
Date Rec: 5/19/2020
Time Rec: 9:15 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	OW-2	5/18/2020		WATER
2	OW-7	5/18/2020		WATER
3	OW-8	5/18/2020		WATER
4	OW-9	5/18/2020		WATER
5	OW-10	5/18/2020		WATER
6	OW-11	5/18/2020		WATER
7	OW-12	5/18/2020		WATER
8	OW-14	5/18/2020		WATER
9	OW-15	5/18/2020		WATER
10	OW-16	5/18/2020		WATER
11	OW-18	5/18/2020		WATER
12	OW-19	5/18/2020		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
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

COMPANY: BREITBURN OPERATING
 PROJECT NO: 00-038
 LOCATION: DYAR

GTA PROJECT NO: 051920-10
 GTA SAMPLE NO: 1
 DATE SAMPLED: 5/18/2020
 TIME SAMPLED:
 DATE RECEIVED: 5/19/2020
 TIME RECEIVED: 9:15 AM

SAMPLED BY: MI
 MATTHEW SCOTT/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: OW-2						
	CHLORIDE EPA 300.0	21	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	850	1.0	uS/cm@25C	LV	5/19/2020	WATER

ND = NOT DETECTED, RESULT < LOD
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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 2
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

SAMPLED BY: MI
MATTHEW SCOTT/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: OW-7						
	CHLORIDE EPA 300.0	51	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	720	1.0	uS/cm@25C	LV	5/19/2020	WATER

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PROJECT NO: 00-038
LOCATION: DYAR

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 3
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

MI
SAMPLED BY: MATTHEW SCOTT/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: OW-8						
	CHLORIDE EPA 300.0	50	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	890	1.0	uS/cm@25C	LV	5/19/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 4
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

SAMPLED BY: MI
MATTHEW SCOTT/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: OW-9						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	300	1.0	uS/cm@25C	LV	5/19/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 5
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

MI
SAMPLED BY: MATTHEW SCOTT/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: OW-10						
	CHLORIDE EPA 300.0	35	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	860	1.0	uS/cm@25C	LV	5/19/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 6
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

MI
SAMPLED BY: MATTHEW SCOTT/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: OW-11						
	CHLORIDE EPA 300.0	210	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	1,400	1.0	uS/cm@25C	LV	5/19/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 7
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

SAMPLED BY: MI
MATTHEW SCOTT/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: OW-12						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	540	1.0	uS/cm@25C	LV	5/19/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR
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SAMPLED BY: MATTHEW SCOTT/OMPC

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 8
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

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: OW-14						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	450	1.0	uS/cm@25C	LV	5/19/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 9
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

SAMPLED BY: MI
MATTHEW SCOTT/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: OW-15						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	600	1.0	uS/cm@25C	LV	5/19/2020	WATER

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PROJECT NO: 00-038
LOCATION: DYAR

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 10
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

SAMPLED BY: MI
MATTHEW SCOTT/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: OW-16						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	460	1.0	uS/cm@25C	LV	5/19/2020	WATER

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PROJECT NO: 00-038
LOCATION: DYAR

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 11
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

MI
SAMPLED BY: MATTHEW SCOTT/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: OW-18						
	CHLORIDE EPA 300.0	210	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	1,400	1.0	uS/cm@25C	LV	5/19/2020	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR

GTA PROJECT NO: 051920-10
GTA SAMPLE NO: 12
DATE SAMPLED: 5/18/2020
TIME SAMPLED:
DATE RECEIVED: 5/19/2020
TIME RECEIVED: 9:15 AM

MI
SAMPLED BY: MATTHEW SCOTT/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: OW-19						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/19/2020	WATER
	CONDUCTIVITY SM2510-B	230	1.0	uS/cm@25C	LV	5/19/2020	WATER

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CHAIN OF CUSTODY

PROJECT NUMBER <i>00-038</i>	SITE NAME/ADDRESS <i>DYAR</i>	COMPANY/NAME <i>Breitburn</i>
SAMPLED BY <i>Matthew Scott</i>	COMPANY <i>OMPC</i>	GTA PROJECT # <i>051920-10</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	<i>OW-2</i>	<i>5-18-20</i>		<i>water</i>	<i>Chlorides and Conductivity</i>
2	<i>OW-7</i>				
3	<i>OW-8</i>				
4	<i>OW-9</i>				
5	<i>OW-10</i>				
6	<i>OW-11</i>				
7	<i>OW-12</i>				
8	<i>OW-14</i>				
9	<i>OW-15</i>				
10	<i>OW-16</i>				
11	<i>OW-18</i>				
12	<i>OW-19</i>				

BILL TO: *Breitburn* REC *COLD* REPORT TO: *OMPC*

RELEASED BY <i>Matthew Scott</i>	DATE/TIME <i>5-19-20 9:10am</i>	RECEIVED BY <i>[Signature]</i>	DATE/TIME <i>5-19-20 9:15A</i>
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS