



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: 051519-14

Site Addr: DYAR 1-1

Sampled By: STEVEN HEMSTREET/OMPC
Date Rec: 5/15/2019
Time Rec: 3:10 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	OW-2	5/15/2019	12:00 PM	WATER
2	OW-7	5/15/2019	12:00 PM	WATER
3	OW-8	5/15/2019	12:00 PM	WATER
4	OW-9	5/15/2019	12:00 PM	WATER
5	OW-10	5/15/2019	12:00 PM	WATER
6	OW-11	5/15/2019	12:00 PM	WATER
7	OW-12	5/15/2019	12:00 PM	WATER
8	OW-14	5/15/2019	12:00 PM	WATER
9	OW-16	5/15/2019	12:00 PM	WATER
10	OW-18	5/15/2019	12:00 PM	WATER
11	OW-19	5/15/2019	12:00 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
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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 051519-14
GTA SAMPLE NO: 1
DATE SAMPLED: 5/15/2019
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 5/15/2019
TIME RECEIVED: 3:10 PM

MI
SAMPLED BY: STEVEN HEMSTREET/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	48	10	mg/L (PPM)	LV	5/18/2019	WATER
	CONDUCTIVITY SM2510-B	880	1.0	uS/cm@25C	LV	5/17/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C
DISS = DISSOLVED

COMPANY: BREITBURN OPERATING
 PROJECT NO: 00-038
 LOCATION: DYAR 1-1

GTA PROJECT NO: 051519-14
 GTA SAMPLE NO: 2
 DATE SAMPLED: 5/15/2019
 TIME SAMPLED: 12:00 PM
 DATE RECEIVED: 5/15/2019
 TIME RECEIVED: 3:10 PM

MI
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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	86	10	mg/L (PPM)	LV	5/18/2019	WATER
	CONDUCTIVITY SM2510-B	850	1.0	uS/cm@25C	LV	5/17/2019	WATER

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PROJECT NO: 00-038
LOCATION: DYAR 1-1
MI
SAMPLED BY: STEVEN HEMSTREET/OMPC

GTA PROJECT NO: 051519-14
GTA SAMPLE NO: 3
DATE SAMPLED: 5/15/2019
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 5/15/2019
TIME RECEIVED: 3:10 PM

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	32	10	mg/L (PPM)	LV	5/18/2019	WATER
	CONDUCTIVITY SM2510-B	840	1.0	uS/cm@25C	LV	5/17/2019	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 051519-14
GTA SAMPLE NO: 4
DATE SAMPLED: 5/15/2019
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 5/15/2019
TIME RECEIVED: 3:10 PM

MI
SAMPLED BY: STEVEN HEMSTREET/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	5/18/2019	WATER
	CONDUCTIVITY SM2510-B	420	1.0	uS/cm@25C	LV	5/17/2019	WATER

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COMPANY: BREITBURN OPERATING
 PROJECT NO: 00-038
 LOCATION: DYAR 1-1

GTA PROJECT NO: 051519-14
 GTA SAMPLE NO: 5
 DATE SAMPLED: 5/15/2019
 TIME SAMPLED: 12:00 PM
 DATE RECEIVED: 5/15/2019
 TIME RECEIVED: 3:10 PM

MI
 SAMPLED BY: STEVEN HEMSTREET/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	39	10	mg/L (PPM)	LV	5/18/2019	WATER
	CONDUCTIVITY SM2510-B	860	1.0	uS/cm@25C	LV	5/17/2019	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 051519-14
GTA SAMPLE NO: 6
DATE SAMPLED: 5/15/2019
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 5/15/2019
TIME RECEIVED: 3:10 PM

MI
SAMPLED BY: STEVEN HEMSTREET/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	240	10	mg/L (PPM)	LV	5/18/2019	WATER
	CONDUCTIVITY SM2510-B	1,500	1.0	uS/cm@25C	LV	5/17/2019	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1
MI
SAMPLED BY: STEVEN HEMSTREET/OMPC

GTA PROJECT NO: 051519-14
GTA SAMPLE NO: 7
DATE SAMPLED: 5/15/2019
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 5/15/2019
TIME RECEIVED: 3:10 PM

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	5/18/2019	WATER
	CONDUCTIVITY SM2510-B	530	1.0	uS/cm@25C	LV	5/17/2019	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 051519-14
GTA SAMPLE NO: 8
DATE SAMPLED: 5/15/2019
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 5/15/2019
TIME RECEIVED: 3:10 PM

MI
SAMPLED BY: STEVEN HEMSTREET/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-14						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/21/2019	WATER
	CONDUCTIVITY SM2510-B	460	1.0	uS/cm@25C	LV	5/20/2019	WATER

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COMPANY: BREITBURN OPERATING
 PROJECT NO: 00-038
 LOCATION: DYAR 1-1

GTA PROJECT NO: 051519-14
 GTA SAMPLE NO: 9
 DATE SAMPLED: 5/15/2019
 TIME SAMPLED: 12:00 PM
 DATE RECEIVED: 5/15/2019
 TIME RECEIVED: 3:10 PM

MI
 SAMPLED BY: STEVEN HEMSTREET/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	5/21/2019	WATER
	CONDUCTIVITY SM2510-B	460	1.0	uS/cm@25C	LV	5/20/2019	WATER

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COMPANY: BREITBURN OPERATING
PROJECT NO: 00-038
LOCATION: DYAR 1-1

GTA PROJECT NO: 051519-14
GTA SAMPLE NO: 10
DATE SAMPLED: 5/15/2019
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 5/15/2019
TIME RECEIVED: 3:10 PM

MI
SAMPLED BY: STEVEN HEMSTREET/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	95	10	mg/L (PPM)	LV	5/21/2019	WATER
	CONDUCTIVITY SM2510-B	760	1.0	uS/cm@25C	LV	5/20/2019	WATER

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COMPANY: BREITBURN OPERATING
 PROJECT NO: 00-038
 LOCATION: DYAR 1-1

GTA PROJECT NO: 051519-14
 GTA SAMPLE NO: 11
 DATE SAMPLED: 5/15/2019
 TIME SAMPLED: 12:00 PM
 DATE RECEIVED: 5/15/2019
 TIME RECEIVED: 3:10 PM

MI
 SAMPLED BY: STEVEN HEMSTREET/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	94	10	mg/L (PPM)	LV	5/21/2019	WATER
	CONDUCTIVITY SM2510-B	620	1.0	uS/cm@25C	LV	5/20/2019	WATER

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CHAIN OF CUSTODY

PROJECT NUMBER 00-038	SITE NAME/ADDRESS Dyar 1-1	COMPANY/NAME Breitburn
SAMPLED BY Steven Hemstreet	COMPANY Otwell Mawby	GTA PROJECT # 051519-14

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	OW-2	5-15-19	12:00pm	H ₂ O	Chlorides & Conductivity
2	OW-7				
3	OW-8				
4	OW-9				
5	OW-10				
6	OW-11				
7	OW-12				
8	OW-14				
9	OW-16				
10	OW-18				
11	OW-19				

BILL TO:

Breitburn

REPORT TO:

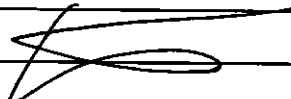
Otwell Mawby

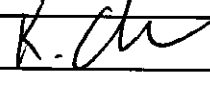
RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

 5-15-19 3:10pm

 5/15/19 3:10p

REQUESTED TAT



STANDARD

1 BUSINESS DAY

2 BUSINESS DAYS

3 BUSINESS DAYS