Grand Traverse Analytical, LLC

INDEPENDENT TESTING LAB
830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686
PH: 231-929-0905 FAX: 231-929-0894
www.gtanalytical.com

Company:	BREITBURN OPERATING	Site Addr:	DYAR 1-1
Name:			
ClientProj:	00-038		
		Sampled By:	MATT SCOTT/BBOP
GTA ProjNo:	080819-14	Date Rec:	8/8/2019
		Time Rec:	4:10 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	OW-2	8/8/2019	12:30 PM	WATER
2	OW-7	8/8/2019	12:30 PM	WATER
3	OW-8	8/8/2019	12:30 PM	WATER
4	OW-10	8/8/2019	12:30 PM	WATER
5	OW-11	8/8/2019	12:30 PM	WATER
6	OW-12	8/8/2019	12:30 PM	WATER
7	OW-14	8/8/2019	12:30 PM	WATER
8	OW-15	8/8/2019	12:30 PM	WATER
9	OW-16	8/8/2019	12:30 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
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COMPANY:	BREITBURN OPERATING	GTA PROJECT NO:	080819-14
		GTA SAMPLE NO:	1
PROJECT NO:	00-038		
LOCATION:	DYAR 1-1	DATE SAMPLED:	8/8/2019
		TIME SAMPLED:	12:30 PM
		DATE RECEIVED:	8/8/2019
		TIME RECEIVED:	4:10 PM
	MI		
SAMPLED BY:	MATT SCOTT/BBOP		

SAMPLE ANALYSIS

No: Analysis	Concentration	LOD	Units	Analyst	Date Completed	Sample Matrix
SAMPLE ID: **OW-2**						
CHLORIDE EPA 300.0	45	10	mg/L (PPM)	LV	8/13/2019	WATER
CONDUCTIVITY SM2510-B	880	1.0	uS/cm@25C	LV	8/13/2019	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	GTA PROJECT NO:	080819-14
		GTA SAMPLE NO:	2
PROJECT NO:	00-038		
LOCATION:	DYAR 1-1	DATE SAMPLED:	8/8/2019
		TIME SAMPLED:	12:30 PM
		DATE RECEIVED:	8/8/2019
		TIME RECEIVED:	4:10 PM
	MI		
SAMPLED BY:	MATT SCOTT/BBOP		

SAMPLE ANALYSIS

No: Analysis	Concentration	LOD	Units	Analyst	Date Completed	Sample Matrix
SAMPLE ID: **OW-7**						
CHLORIDE EPA 300.0	97	10	mg/L (PPM)	LV	8/13/2019	WATER
CONDUCTIVITY SM2510-B	960	1.0	uS/cm@25C	LV	8/13/2019	WATER

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COMPANY:	BREITBURN OPERATING	GTA PROJECT NO:	080819-14
		GTA SAMPLE NO:	3
PROJECT NO:	00-038		
LOCATION:	DYAR 1-1	DATE SAMPLED:	8/8/2019
		TIME SAMPLED:	12:30 PM
		DATE RECEIVED:	8/8/2019
		TIME RECEIVED:	4:10 PM
	MI		
SAMPLED BY:	MATT SCOTT/BBOP		

SAMPLE ANALYSIS

No: Analysis	Concentration	LOD	Units	Analyst	Date Completed	Sample Matrix
SAMPLE ID: **OW-8**						
CHLORIDE EPA 300.0	26	10	mg/L (PPM)	LV	8/13/2019	WATER
CONDUCTIVITY SM2510-B	850	1.0	uS/cm@25C	LV	8/13/2019	WATER

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COMPANY:	BREITBURN OPERATING	GTA PROJECT NO:	080819-14
		GTA SAMPLE NO:	4
PROJECT NO:	00-038		
LOCATION:	DYAR 1-1	DATE SAMPLED:	8/8/2019
		TIME SAMPLED:	12:30 PM
		DATE RECEIVED:	8/8/2019
		TIME RECEIVED:	4:10 PM
	MI		
SAMPLED BY:	MATT SCOTT/BBOP		

SAMPLE ANALYSIS

No: Analysis	Concentration	LOD	Units	Analyst	Date Completed	Sample Matrix
SAMPLE ID: **OW-10**						
CHLORIDE EPA 300.0	35	10	mg/L (PPM)	LV	8/13/2019	WATER
CONDUCTIVITY SM2510-B	870	1.0	uS/cm@25C	LV	8/13/2019	WATER

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COMPANY:	BREITBURN OPERATING	GTA PROJECT NO:	080819-14
		GTA SAMPLE NO:	5
PROJECT NO:	00-038		
LOCATION:	DYAR 1-1	DATE SAMPLED:	8/8/2019
		TIME SAMPLED:	12:30 PM
		DATE RECEIVED:	8/8/2019
		TIME RECEIVED:	4:10 PM
	MI		
SAMPLED BY:	MATT SCOTT/BBOP		

SAMPLE ANALYSIS

No: Analysis	Concentration	LOD	Units	Analyst	Date Completed	Sample Matrix
SAMPLE ID: **OW-11**						
CHLORIDE EPA 300.0	230	10	mg/L (PPM)	LV	8/13/2019	WATER
CONDUCTIVITY SM2510-B	1,500	1.0	uS/cm@25C	LV	8/13/2019	WATER

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COMPANY:	BREITBURN OPERATING	GTA PROJECT NO:	080819-14
		GTA SAMPLE NO:	6
PROJECT NO:	00-038		
LOCATION:	DYAR 1-1	DATE SAMPLED:	8/8/2019
		TIME SAMPLED:	12:30 PM
		DATE RECEIVED:	8/8/2019
		TIME RECEIVED:	4:10 PM
	MI		
SAMPLED BY:	MATT SCOTT/BBOP		

SAMPLE ANALYSIS

No: Analysis	Concentration	LOD	Units	Analyst	Date Completed	Sample Matrix
SAMPLE ID: **OW-12**						
CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	8/13/2019	WATER
CONDUCTIVITY SM2510-B	580	1.0	uS/cm@25C	LV	8/13/2019	WATER

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COMPANY:	BREITBURN OPERATING	GTA PROJECT NO:	080819-14
		GTA SAMPLE NO:	7
PROJECT NO:	00-038		
LOCATION:	DYAR 1-1	DATE SAMPLED:	8/8/2019
		TIME SAMPLED:	12:30 PM
		DATE RECEIVED:	8/8/2019
		TIME RECEIVED:	4:10 PM
	MI		
SAMPLED BY:	MATT SCOTT/BBOP		

SAMPLE ANALYSIS

No: Analysis	Concentration	LOD	Units	Analyst	Date Completed	Sample Matrix
SAMPLE ID: **OW-14**						
CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	8/13/2019	WATER
CONDUCTIVITY SM2510-B	510	1.0	uS/cm@25C	LV	8/13/2019	WATER

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COMPANY:	BREITBURN OPERATING	GTA PROJECT NO:	080819-14
		GTA SAMPLE NO:	8
PROJECT NO:	00-038		
LOCATION:	DYAR 1-1	DATE SAMPLED:	8/8/2019
		TIME SAMPLED:	12:30 PM
		DATE RECEIVED:	8/8/2019
		TIME RECEIVED:	4:10 PM
	MI		
SAMPLED BY:	MATT SCOTT/BBOP		

SAMPLE ANALYSIS

No: Analysis	Concentration	LOD	Units	Analyst	Date Completed	Sample Matrix
SAMPLE ID: **OW-15**						
CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	8/13/2019	WATER
CONDUCTIVITY SM2510-B	620	1.0	uS/cm@25C	LV	8/13/2019	WATER

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COMPANY:	BREITBURN OPERATING	GTA PROJECT NO:	080819-14
		GTA SAMPLE NO:	9
PROJECT NO:	00-038		
LOCATION:	DYAR 1-1	DATE SAMPLED:	8/8/2019
		TIME SAMPLED:	12:30 PM
		DATE RECEIVED:	8/8/2019
		TIME RECEIVED:	4:10 PM
	MI		
SAMPLED BY:	MATT SCOTT/BBOP		

SAMPLE ANALYSIS

No: Analysis	Concentration	LOD	Units	Analyst	Date Completed	Sample Matrix
SAMPLE ID: **OW-16**						
CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	8/13/2019	WATER
CONDUCTIVITY SM2510-B	460	1.0	uS/cm@25C	LV	8/13/2019	WATER

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CHAIN OF CUSTODY

PROJECT NUMBER	SITE NAME/ADDRESS	COMPANY/NAME
00-038	Dyar 1-1	Breitburn
SAMPLED BY	**COMPANY**	**GTA PROJECT #**
[illegible] C. [illegible]	OMPC	080819-14

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	OW-2	8/8/19	12:30	water	Chlorides + Conductivity
2	OW-7	↓	↓	↓	↓
3	OW-8	↓	↓	↓	↓
4	OW-10	↓	↓	↓	↓
5	OW-11	↓	↓	↓	↓
6	OW-12	↓	↓	↓	↓
~~7~~	~~OW-12~~	↓	↓	↓	↓
7	OW-14	↓	↓	↓	↓
8	OW-15	↓	↓	↓	↓
9	OW-16	↓	↓	↓	↓

BILL TO: Breitburn

REPORT TO: OMPC

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[illegible] C. [illegible]	8/8/19 4:10 pm	[illegible]	8/8/19 4:10

REQUESTED TAT ☑ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS