

**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: 228907.160
GTA ProjNo: 050119-6

Site Addr: JOSEPH #1

Sampled By: HOLLIS THOMAS/DARCY
Date Rec: 5/1/2019
Time Rec: 2:40 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1D	4/28/2019	5:00 PM	WATER
2	MW-2	4/28/2019	5:20 PM	WATER
3	MW-3D	4/28/2019	5:30 PM	WATER
4	MW-4	4/28/2019	4:30 PM	WATER
5	MW-8	4/28/2019	4:20 PM	WATER
6	MW-9	4/28/2019	4:10 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: 228907.160

LOCATION: JOSEPH #1

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-1D

GTA PROJECT NO: 050119-6

GTA SAMPLE NO: 1

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 5:00 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

SAMPLED BY: HOLLIS THOMAS/DARCY

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	2,300	5.0	ug/L (PPB)	MR		5/2/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	440	5.0					
Xylene(Total)	850	11					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907.160

LOCATION: JOSEPH #1

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-2

GTA PROJECT NO: 050119-6

GTA SAMPLE NO: 2

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 5:20 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

SAMPLED BY: HOLLIS THOMAS/DARCY

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		5/2/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907.160

LOCATION: JOSEPH #1

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-3D

GTA PROJECT NO: 050119-6

GTA SAMPLE NO: 3

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 5:30 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

SAMPLED BY: HOLLIS THOMAS/DARCY

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	3.4	1.0	ug/L (PPB)	MR		5/2/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	4.5	1.0					
Xylene(Total)	10	3.0					

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907.160

LOCATION: JOSEPH #1

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-4

GTA PROJECT NO: 050119-6

GTA SAMPLE NO: 4

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 4:30 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

SAMPLED BY: HOLLIS THOMAS/DARCY

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	2.6	1.0	ug/L (PPB)	MR		5/2/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	3.7	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907.160

LOCATION: JOSEPH #1

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-8

GTA PROJECT NO: 050119-6

GTA SAMPLE NO: 5

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 4:20 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

SAMPLED BY: HOLLIS THOMAS/DARCY

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	1.7	1.0	ug/L (PPB)	MR		5/2/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: BREITBURN OPERATING

GTA PROJECT NO: 050119-6

PROJECT NO: 228907.160

GTA SAMPLE NO: 1

LOCATION: JOSEPH #1

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 5:00 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

MI

SAMPLED BY: HOLLIS THOMAS/DARCY

SAMPLE RESULTS

<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-1D						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/2/2019	WATER
	CONDUCTIVITY SM2510-B	800	1.0	uS/cm@25C	LV	5/2/2019	WATER

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DISS = DISSOLVED

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907.160

LOCATION: JOSEPH #1

GTA PROJECT NO: 050119-6

GTA SAMPLE NO: 2

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 5:20 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

MI

SAMPLED BY: HOLLIS THOMAS/DARCY

SAMPLE RESULTS

<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-2						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/2/2019	WATER
	CONDUCTIVITY SM2510-B	860	1.0	uS/cm@25C	LV	5/2/2019	WATER

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PROJECT NO: 228907.160

LOCATION: JOSEPH #1

GTA PROJECT NO: 050119-6

GTA SAMPLE NO: 3

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 5:30 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

MI

SAMPLED BY: HOLLIS THOMAS/DARCY

SAMPLE RESULTS

<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-3D						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	5/2/2019	WATER
	CONDUCTIVITY SM2510-B	250	1.0	uS/cm@25C	LV	5/2/2019	WATER

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COMPANY: BREITBURN OPERATING

PROJECT NO: 228907.160

LOCATION: JOSEPH #1

GTA PROJECT NO: 050119-6

GTA SAMPLE NO: 4

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 4:30 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

MI

SAMPLED BY: HOLLIS THOMAS/DARCY

SAMPLE RESULTS

<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	5/2/2019	WATER
	CONDUCTIVITY SM2510-B	880	1.0	uS/cm@25C	LV	5/2/2019	WATER

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COMPANY: BREITBURN OPERATING

GTA PROJECT NO: 050119-6

PROJECT NO: 228907.160

GTA SAMPLE NO: 5

LOCATION: JOSEPH #1

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 4:20 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

MI

SAMPLED BY: HOLLIS THOMAS/DARCY

SAMPLE RESULTS

<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	34	10	mg/L (PPM)	LV	5/2/2019	WATER
	CONDUCTIVITY SM2510-B	770	1.0	uS/cm@25C	LV	5/2/2019	WATER

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COMPANY: BREITBURN OPERATING

GTA PROJECT NO: 050119-6

PROJECT NO: 228907.160

GTA SAMPLE NO: 6

LOCATION: JOSEPH #1

DATE SAMPLED: 4/28/2019

TIME SAMPLED: 4:10 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 2:40 PM

MI

SAMPLED BY: HOLLIS THOMAS/DARCY

SAMPLE RESULTS

<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	52	10	mg/L (PPM)	LV	5/2/2019	WATER
	CONDUCTIVITY SM2510-B	930	1.0	uS/cm@25C	LV	5/2/2019	WATER

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CHAIN OF CUSTODY

PROJECT NUMBER 228907.160	SITE NAME/ADDRESS JOSEPH #1	COMPANY/NAME Braithorn for LP
SAMPLED BY gulls	COMPANY Darry	GTA PROJECT # 050119-6

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-1D	4/28/19	5 pm	GW	BTEX CI SC
2	MW-2	↓	5:20 pm	↓	↓ ↓ ↓
3	MW-3B	↓	5:30 pm	↓	↓ ↓ ↓
4	MW-4	↓	4:30	↓	↓ ↓ ↓
5	MW-8	↓	4:20	↓	↓ ↓ ↓
6	MW-9	↓	4:10	↓	NO BTEX ↓ ↓

BILL TO:

BB

REPORT TO:

Darry

RELEASED BY

DATE/TIME

gulls w. Ch **5/1/19 2:40p**

RECEIVED BY

DATE/TIME

K ch **5/1/19 2:40p**
Re - 20C

REQUESTED TAT ☒ **STANDARD** ☐ **1 BUSINESS DAY** ☐ **2 BUSINESS DAYS** ☐ **3 BUSINESS DAYS**