

**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: 228907.073
GTA ProjNo: 012819-1

Site Addr: STATE BEAVER CREEK M#3

Sampled By: HOLLIS THOMAS/DARCY
Date Rec: 1/28/2019
Time Rec: 8:21 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-2	1/24/2019	12:00 PM	WATER
2	MW-4D	1/24/2019	12:20 PM	WATER
3	MW-5	1/24/2019	12:40 PM	WATER
4	MW-9	1/24/2019	1:00 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 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

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 012819-1
GTA SAMPLE NO: 1

DATE SAMPLED: 1/24/2019
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 1/28/2019
TIME RECEIVED: 8:21 AM

MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-2

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	3.3	1.0	ug/L (PPB)	MR		1/30/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	56	1.0					
Xylene(Total)	180	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-4D

GTA PROJECT NO: 012819-1
GTA SAMPLE NO: 2

DATE SAMPLED: 1/24/2019
TIME SAMPLED: 12:20 PM
DATE RECEIVED: 1/28/2019
TIME RECEIVED: 8:21 AM

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		1/29/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 012819-1
GTA SAMPLE NO: 3

DATE SAMPLED: 1/24/2019
TIME SAMPLED: 12:40 PM
DATE RECEIVED: 1/28/2019
TIME RECEIVED: 8:21 AM

MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5

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		1/29/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-9

GTA PROJECT NO: 012819-1
GTA SAMPLE NO: 4

DATE SAMPLED: 1/24/2019
TIME SAMPLED: 1:00 PM
DATE RECEIVED: 1/28/2019
TIME RECEIVED: 8:21 AM

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		1/30/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	48	1.0					
Xylene(Total)	3.7	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 012819-1
GTA SAMPLE NO: 1

DATE SAMPLED: 1/24/2019
TIME SAMPLED: 12:00 PM

DATE RECEIVED: 1/28/2019
TIME RECEIVED: 8:21 AM

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	2.5	mg/L (PPM)	LV	1/29/2019	WATER
	CONDUCTIVITY SM2510-B	940	1.0	uS/cm@25C	LV	1/29/2019	WATER

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

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 012819-1
GTA SAMPLE NO: 2

DATE SAMPLED: 1/24/2019
TIME SAMPLED: 12:20 PM

DATE RECEIVED: 1/28/2019
TIME RECEIVED: 8:21 AM

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-4D						
	CHLORIDE EPA 300.0	350	5.0	mg/L (PPM)	LV	1/29/2019	WATER
	CONDUCTIVITY SM2510-B	1,300	1.0	uS/cm@25C	LV	1/29/2019	WATER

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

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 012819-1
GTA SAMPLE NO: 3

DATE SAMPLED: 1/24/2019
TIME SAMPLED: 12:40 PM

DATE RECEIVED: 1/28/2019
TIME RECEIVED: 8:21 AM

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-5						
	CHLORIDE EPA 300.0	ND	2.5	mg/L (PPM)	LV	1/29/2019	WATER
	CONDUCTIVITY SM2510-B	580	1.0	uS/cm@25C	LV	1/29/2019	WATER

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

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: BREITBURN OPERATING
PROJECT NO: 228907.073
LOCATION: STATE BEAVER CREEK M#3

GTA PROJECT NO: 012819-1
GTA SAMPLE NO: 4

DATE SAMPLED: 1/24/2019
TIME SAMPLED: 1:00 PM

DATE RECEIVED: 1/28/2019
TIME RECEIVED: 8:21 AM

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	ND	2.5	mg/L (PPM)	LV	1/29/2019	WATER
	CONDUCTIVITY SM2510-B	540	1.0	uS/cm@25C	LV	1/29/2019	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER 228107.073	SITE NAME/ADDRESS STATE BEAVER CREEK M#3	COMPANY/NAME Bridgman for LP
SAMPLED BY Jellis	COMPANY Darry	GTA PROJECT # 012819-1

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	rw-2	1/24/19	12pm	GW	Cl ⁻ , SC & BTEX
2	rw-4d	↓	12:20	↓	↓ ↓ ↓
3	rw-5	↓	12:40	↓	↓ ↓ ↓
4	rw-9	↓	1pm	↓	↓ ↓ ↓

BILL TO:

BB

REPORT TO:

Darry

RELEASED BY Jellis W. [Signature]	DATE/TIME 1/28/19 9:21am	RECEIVED BY Tina M. [Signature]	DATE/TIME 1-28-19 8:21am

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