



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: 2251551.003
GTA ProjNo: 102819-9

Site Addr: ST. GARFIELD #1-9

Sampled By: HOLLIS THOMAS/DARCY
Date Rec: 10/28/2019
Time Rec: 10:15 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	10/26/2019	4:15 PM	WATER
2	MW-3	10/26/2019	4:00 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: 2251551.003

LOCATION: ST. GARFIELD #1-9

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-1

GTA PROJECT NO: 102819-9

GTA SAMPLE NO: 1

DATE SAMPLED: 10/26/2019

TIME SAMPLED: 4:15 PM

DATE RECEIVED: 10/28/2019

TIME RECEIVED: 10:15 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		10/29/2019	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

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COMPANY: BREITBURN OPERATING

GTA PROJECT NO: 102819-9

PROJECT NO: 2251551.003

GTA SAMPLE NO: 2

LOCATION: ST. GARFIELD #1-9

DATE SAMPLED: 10/26/2019

TIME SAMPLED: 4:00 PM

DATE RECEIVED: 10/28/2019

TIME RECEIVED: 10:15 AM

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-3

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		10/29/2019	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.

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COMPANY: BREITBURN OPERATING

GTA PROJECT NO: 102819-9

PROJECT NO: 2251551.003

GTA SAMPLE NO: 1

LOCATION: ST. GARFIELD #1-9

DATE SAMPLED: 10/26/2019

TIME SAMPLED: 4:15 PM

DATE RECEIVED: 10/28/2019

TIME RECEIVED: 10:15 AM

MI

SAMPLED BY: HOLLIS THOMAS/DARCY

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: MW-1						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	11/6/2019	WATER
	CONDUCTIVITY SM2510-B	260	1.0	uS/cm@25C	LV	11/6/2019	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: 102819-9

PROJECT NO: 2251551.003

GTA SAMPLE NO: 2

LOCATION: ST. GARFIELD #1-9

DATE SAMPLED: 10/26/2019

TIME SAMPLED: 4:00 PM

DATE RECEIVED: 10/28/2019

TIME RECEIVED: 10:15 AM

MI

SAMPLED BY: HOLLIS THOMAS/DARCY

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: MW-3						
	CHLORIDE EPA 300.0	46	10	mg/L (PPM)	LV	11/6/2019	WATER
	CONDUCTIVITY SM2510-B	250	1.0	uS/cm@25C	LV	11/6/2019	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 2251551.003	SITE NAME/ADDRESS STATE GARFIELD #1-9	COMPANY/NAME BreitBurn Sp LLC
SAMPLED BY [Signature]	COMPANY Drey	GTA PROJECT # 102819-9

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	MW-1	10/26/14	4:15pm	GW	CI, SC & BTEX
	MW-3	10/26/15	4pm	GW	CI, SC & BTEX

BILL TO:

BB

REPORT TO:

Drey

RELEASED BY [Signature]	DATE/TIME 10/28/14 10:15am	RECEIVED BY [Signature]	DATE/TIME 10/28/14 10:15a

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