



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: 20-099
GTA ProjNo: 070220-14

Site Addr: B-16

Sampled By: COOPER/OMPC
Date Rec: 7/2/2020
Time Rec: 3:58 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1 @ 23-25'	7/2/2020	9:25 AM	SOIL
2	MW-1 @ 26.5'	7/2/2020	9:45 AM	SOIL

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: 20-099
LOCATION: B-16

MI
SAMPLE MATRIX: SOIL
SAMPLE ID: MW-1 @ 23-25'

GTA PROJECT NO: 070220-14
GTA SAMPLE NO: 1
DATE SAMPLED: 7/2/2020
TIME SAMPLED: 9:25 AM
DATE RECEIVED: 7/2/2020
TIME RECEIVED: 3:58 PM

SAMPLED BY: COOPER/OMPC

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	40,000	520	ug/Kg (PPB)	MR	7/2/2020	7/6/2020	EPA 5035A
Toluene	110,000	520					
Ethylbenzene	30,000	520					
Xylene(Total)	88,000	1,600					

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: 20-099
 LOCATION: B-16
 MI
 SAMPLE MATRIX: SOIL
 SAMPLE ID: MW-1 @ 26.5'

GTA PROJECT NO: 070220-14
 GTA SAMPLE NO: 2
 DATE SAMPLED: 7/2/2020
 TIME SAMPLED: 9:45 AM
 DATE RECEIVED: 7/2/2020
 TIME RECEIVED: 3:58 PM

SAMPLED BY: COOPER/OMPC

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	4,200	50	ug/Kg (PPB)	MR	7/2/2020	7/6/2020	EPA 5035A
Toluene	280	50					
Ethylbenzene	50	50					
Xylene(Total)	190	150					

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-099
 LOCATION: B-16

GTA PROJECT NO: 070220-14
 GTA SAMPLE NO: 1

DATE SAMPLED: 7/2/2020
 TIME SAMPLED: 9:25 AM
 DATE RECEIVED: 7/2/2020
 TIME RECEIVED: 3:58 PM

MI
 SAMPLED BY: COOPER/OMPC

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-1 @ 23-25' CHLORIDE EPA 300.0	3,400	100	mg/Kg (PPM)	LV	7/6/2020	SOIL

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-099
 LOCATION: B-16
 MI
 SAMPLED BY: COOPER/OMPC

GTA PROJECT NO: 070220-14
 GTA SAMPLE NO: 2
 DATE SAMPLED: 7/2/2020
 TIME SAMPLED: 9:45 AM
 DATE RECEIVED: 7/2/2020
 TIME RECEIVED: 3:58 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-1 @ 26.5' CHLORIDE EPA 300.0	17,000	1,100	mg/Kg (PPM)	LV	7/6/2020	SOIL

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



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:
PROJECT NO: 20-099

LOCATION: B-16

MI

GTA PROJECT NO: 070220-
SAMPLED BY: COOPER/OMPC

DATE SAMPLED: 7/2/2020
TIME SAMPLED: 9:25 AM

SAMPLE MATRIX: SOIL

DATE RECEIVED: 7/2/2020
TIME RECEIVED: 3:58 PM

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
	SAMPLE ID: MW-1 @ 23-25' % MOISTURE EPA 3550C	3.6	0.050	% OF SAMPLE	AS	7/2/2020
	SAMPLE ID: MW-1 @ 26.5' % MOISTURE EPA 3550C	17	0.050	% OF SAMPLE	AS	7/2/2020

