



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: 20-032
GTA ProjNo: 011221-1

Site Addr: KALKASKA 1-27

Sampled By: SEAN CLARK/OMPC
Date Rec: 1/12/2021
Time Rec: 9:45 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1D	1/11/2021	5:49 PM	WATER
2	MW-1	1/11/2021	4:55 PM	WATER
3	MW-2	1/11/2021	4:22 PM	WATER
4	MW-3	1/11/2021	4:00 PM	WATER
5	MW-4	1/11/2021	6:30 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 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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-032
 LOCATION: KALKASKA 1-27

GTA PROJECT NO: 011221-1
 GTA SAMPLE NO: 1
 DATE SAMPLED: 1/11/2021
 TIME SAMPLED: 5:49 PM
 DATE RECEIVED: 1/12/2021
 TIME RECEIVED: 9:45 AM

MI
 SAMPLED BY: SEAN CLARK/OMPC

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</u>
SAMPLE ID: MW-1D	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	1/12/2021	WATER

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-032
 LOCATION: KALKASKA 1-27

GTA PROJECT NO: 011221-1
 GTA SAMPLE NO: 2
 DATE SAMPLED: 1/11/2021
 TIME SAMPLED: 4:55 PM
 DATE RECEIVED: 1/12/2021
 TIME RECEIVED: 9:45 AM

MI
 SAMPLED BY: SEAN CLARK/OMPC

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</u>
SAMPLE ID: MW-1	CHLORIDE EPA 300.0	1,100	50	mg/L (PPM)	LV	1/12/2021	WATER

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-032
 LOCATION: KALKASKA 1-27

GTA PROJECT NO: 011221-1
 GTA SAMPLE NO: 3
 DATE SAMPLED: 1/11/2021
 TIME SAMPLED: 4:22 PM
 DATE RECEIVED: 1/12/2021
 TIME RECEIVED: 9:45 AM

MI
 SAMPLED BY: SEAN CLARK/OMPC

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</u>
SAMPLE ID: MW-2	CHLORIDE EPA 300.0	440	10	mg/L (PPM)	LV	1/12/2021	WATER

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

COMPANY: BREITBURN OPERATING
PROJECT NO: 20-032
LOCATION: KALKASKA 1-27
MI
SAMPLED BY: SEAN CLARK/OMPC

GTA PROJECT NO: 011221-1
GTA SAMPLE NO: 4
DATE SAMPLED: 1/11/2021
TIME SAMPLED: 4:00 PM
DATE RECEIVED: 1/12/2021
TIME RECEIVED: 9:45 AM

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</u>
SAMPLE ID: MW-3	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	1/14/2021	WATER

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-032
 LOCATION: KALKASKA 1-27

GTA PROJECT NO: 011221-1
 GTA SAMPLE NO: 5
 DATE SAMPLED: 1/11/2021
 TIME SAMPLED: 6:30 PM
 DATE RECEIVED: 1/12/2021
 TIME RECEIVED: 9:45 AM

MI
 SAMPLED BY: SEAN CLARK/OMPC

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</u>
SAMPLE ID: MW-4	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	1/14/2021	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER <i>20-032</i>	SITE NAME/ADDRESS <i>Kalkaska 1-27</i>	COMPANY/NAME <i>Breitburn</i>
SAMPLED BY <i>Sean Clark</i>	COMPANY <i>Otwell Mowby</i>	GTA PROJECT # <i>011221-1</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	<i>MW-1D</i>	<i>1/11/21</i>	<i>5:49pm</i>	<i>GW</i>	<i>Chlorides</i>
	<i>MW-1</i>	<i>1/11/21</i>	<i>4:55pm</i>	<i>GW</i>	<i>Chlorides</i>
	<i>MW-2</i>	<i>1/11/21</i>	<i>4:22pm</i>	<i>GW</i>	<i>Chlorides</i>
	<i>MW-3</i>	<i>1/11/21</i>	<i>4:00pm</i>	<i>GW</i>	<i>Chlorides</i>
	<i>MW-4</i>	<i>1/11/21</i>	<i>6:30pm</i>	<i>GW</i>	<i>Chlorides</i>

BILL TO: <i>Breitburn</i>	REPORT TO: <i>Otwell Mowby</i>
-------------------------------------	--

RELEASED BY <i>[Signature]</i>	DATE/TIME <i>1/12/21 @ 8:10am</i>	RECEIVED BY <i>[Signature]</i>	DATE/TIME <i>1/12/21 9:45am</i>
--	---	--	---

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