



**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

[www.gtanalytical.com](http://www.gtanalytical.com)

Company: BREITBURN OPERATING  
Name:  
ClientProj: 20-280  
GTA ProjNo: 082120-6

Site Addr: BREITBURN K-5

Sampled By: D. COOPER/OMPC  
Date Rec: 8/21/2020  
Time Rec: 12:15 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	VSR-11 @ 12'	8/20/2020		SOIL
2	VSR-12 @ 10'	8/20/2020		SOIL
3	VSR-13 @ 12'	8/20/2020		SOIL
4	VSR-14 @ 12'	8/20/2020		SOIL
5	VSR-15 @ 12'	8/20/2020		SOIL
6	VSR-16 @ 14'	8/20/2020		SOIL
7	VSR-17 @ 19'	8/19/2020		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  
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830 Robinwood Court  
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COMPANY: BREITBURN OPERATING  
 PROJECT NO: 20-280  
 LOCATION: BREITBURN K-5

GTA PROJECT NO: 082120-6  
 GTA SAMPLE NO: 1  
 DATE SAMPLED: 8/20/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 8/21/2020  
 TIME RECEIVED: 12:15 PM

MI  
 SAMPLED BY: D. 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: VSR-11 @ 12' CHLORIDE EPA 300.0	2,300	100	mg/Kg (PPM)	LV	8/25/2020	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 20-280  
 LOCATION: BREITBURN K-5  
 MI  
 SAMPLED BY: D. COOPER/OMPC

GTA PROJECT NO: 082120-6  
 GTA SAMPLE NO: 2  
 DATE SAMPLED: 8/20/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 8/21/2020  
 TIME RECEIVED: 12:15 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: VSR-12 @ 10' CHLORIDE EPA 300.0	440	100	mg/Kg (PPM)	LV	8/25/2020	SOIL

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

COMPANY: BREITBURN OPERATING  
PROJECT NO: 20-280  
LOCATION: BREITBURN K-5  
MI  
SAMPLED BY: D. COOPER/OMPC

GTA PROJECT NO: 082120-6  
GTA SAMPLE NO: 3  
DATE SAMPLED: 8/20/2020  
TIME SAMPLED:  
DATE RECEIVED: 8/21/2020  
TIME RECEIVED: 12:15 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: VSR-13 @ 12' CHLORIDE EPA 300.0	210	100	mg/Kg (PPM)	LV	8/25/2020	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 20-280  
 LOCATION: BREITBURN K-5

GTA PROJECT NO: 082120-6  
 GTA SAMPLE NO: 4  
 DATE SAMPLED: 8/20/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 8/21/2020  
 TIME RECEIVED: 12:15 PM

MI  
 SAMPLED BY: D. 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: VSR-14 @ 12' CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	LV	8/25/2020	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 20-280  
 LOCATION: BREITBURN K-5

GTA PROJECT NO: 082120-6  
 GTA SAMPLE NO: 5  
 DATE SAMPLED: 8/20/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 8/21/2020  
 TIME RECEIVED: 12:15 PM

SAMPLED BY: MI  
 D. 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: VSR-15 @ 12' CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	LV	8/25/2020	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 20-280  
 LOCATION: BREITBURN K-5

GTA PROJECT NO: 082120-6  
 GTA SAMPLE NO: 6  
 DATE SAMPLED: 8/20/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 8/21/2020  
 TIME RECEIVED: 12:15 PM

MI  
 SAMPLED BY: D. 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: VSR-16 @ 14' CHLORIDE EPA 300.0	710	100	mg/Kg (PPM)	LV	8/25/2020	SOIL

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

COMPANY: BREITBURN OPERATING  
 PROJECT NO: 20-280  
 LOCATION: BREITBURN K-5

GTA PROJECT NO: 082120-6  
 GTA SAMPLE NO: 7  
 DATE SAMPLED: 8/19/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 8/21/2020  
 TIME RECEIVED: 12:15 PM

MI  
 SAMPLED BY: D. 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: VSR-17 @ 19' CHLORIDE EPA 300.0	2,400	100	mg/Kg (PPM)	LV	8/25/2020	SOIL

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



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COMPANY: BREITBURN OPERATING

NAME:  
PROJECT NO: 20-280

LOCATION: BREITBURN K-5

MI

GTA PROJECT NO: 082120-6  
SAMPLED BY: D. COOPER/OMPC

DATE SAMPLED: 8/20/2020  
TIME SAMPLED:

SAMPLE MATRIX: SOIL

DATE RECEIVED: 8/21/2020  
TIME RECEIVED: 12:15 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: VSR-11 @ 12' % MOISTURE EPA 3550C	3.7	0.050	% OF SAMPLE	AS	8/21/2020
SAMPLE ID: VSR-12 @ 10' % MOISTURE EPA 3550C	4.2	0.050	% OF SAMPLE	AS	8/21/2020
SAMPLE ID: VSR-13 @ 12' % MOISTURE EPA 3550C	4.7	0.050	% OF SAMPLE	AS	8/21/2020
SAMPLE ID: VSR-14 @ 12' % MOISTURE EPA 3550C	5.1	0.050	% OF SAMPLE	AS	8/21/2020
SAMPLE ID: VSR-15 @ 12' % MOISTURE EPA 3550C	5.2	0.050	% OF SAMPLE	AS	8/21/2020
SAMPLE ID: VSR-16 @ 14' % MOISTURE EPA 3550C	3.8	0.050	% OF SAMPLE	AS	8/21/2020
SAMPLE ID: VSR-17 @ 19' % MOISTURE EPA 3550C	3.7	0.050	% OF SAMPLE	AS	8/21/2020

