



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: 20-280
GTA ProjNo: 081720-14

Site Addr: K-5 FLOWLINE

Sampled By: OMPC

Date Rec: 8/17/2020

Time Rec: 4:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	HA-1 @ 10'	8/16/2020		SOIL
2	HA-2 @ 11'	8/16/2020		SOIL
3	HA-5 @ 5'	8/16/2020		SOIL
4	HA-7 @ 6'	8/16/2020		SOIL
5	HA-7 @ 10'	8/16/2020		SOIL
6	HA-7 @ 19'	8/16/2020		SOIL
7	HA-8 @ 15'	8/16/2020		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

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

GTA PROJECT NO: 081720-14
GTA SAMPLE NO: 1
DATE SAMPLED: 8/16/2020
TIME SAMPLED:
DATE RECEIVED: 8/17/2020
TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
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: HA-1 @ 10' CHLORIDE EPA 300.0	1,300	100	mg/Kg (PPM)	LV	8/18/2020	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: K-5 FLOWLINE

GTA PROJECT NO: 081720-14
 GTA SAMPLE NO: 2
 DATE SAMPLED: 8/16/2020
 TIME SAMPLED:
 DATE RECEIVED: 8/17/2020
 TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
 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: HA-2 @ 11' CHLORIDE EPA 300.0	1,600	100	mg/Kg (PPM)	LV	8/18/2020	SOIL

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

GTA PROJECT NO: 081720-14
 GTA SAMPLE NO: 3
 DATE SAMPLED: 8/16/2020
 TIME SAMPLED:
 DATE RECEIVED: 8/17/2020
 TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
 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: HA-5 @ 5' CHLORIDE EPA 300.0	170	110	mg/Kg (PPM)	LV	8/18/2020	SOIL

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

GTA PROJECT NO: 081720-14
 GTA SAMPLE NO: 4
 DATE SAMPLED: 8/16/2020
 TIME SAMPLED:
 DATE RECEIVED: 8/17/2020
 TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
 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: HA-7 @ 6' CHLORIDE EPA 300.0	460	100	mg/Kg (PPM)	LV	8/18/2020	SOIL

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

GTA PROJECT NO: 081720-14
 GTA SAMPLE NO: 5
 DATE SAMPLED: 8/16/2020
 TIME SAMPLED:
 DATE RECEIVED: 8/17/2020
 TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
 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: HA-7 @ 10' CHLORIDE EPA 300.0	1,800	110	mg/Kg (PPM)	LV	8/18/2020	SOIL

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

GTA PROJECT NO: 081720-14
 GTA SAMPLE NO: 6
 DATE SAMPLED: 8/16/2020
 TIME SAMPLED:
 DATE RECEIVED: 8/17/2020
 TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
 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: HA-7 @ 19' CHLORIDE EPA 300.0	7,000	520	mg/Kg (PPM)	LV	8/18/2020	SOIL

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

GTA PROJECT NO: 081720-14
 GTA SAMPLE NO: 7
 DATE SAMPLED: 8/16/2020
 TIME SAMPLED:
 DATE RECEIVED: 8/17/2020
 TIME RECEIVED: 4:30 PM

SAMPLED BY: MI
 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: HA-8 @ 15' CHLORIDE EPA 300.0	1,100	100	mg/Kg (PPM)	LV	8/18/2020	SOIL

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COMPANY: BREITBURN OPERATING

NAME:
PROJECT NO: 20-280

LOCATION: K-5 FLOWLINE

MI

GTA PROJECT NO: 081720-
SAMPLED BY: OMPC

DATE SAMPLED: 8/16/2020
TIME SAMPLED:

SAMPLE MATRIX: SOIL

DATE RECEIVED: 8/17/2020
TIME RECEIVED: 4:30 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: HA-1 @ 10' % MOISTURE EPA 3550C	3.7	0.050	% OF SAMPLE	AS	8/17/2020
	SAMPLE ID: HA-2 @ 11' % MOISTURE EPA 3550C	5.2	0.050	% OF SAMPLE	AS	8/17/2020
	SAMPLE ID: HA-5 @ 5' % MOISTURE EPA 3550C	6.1	0.050	% OF SAMPLE	AS	8/17/2020
	SAMPLE ID: HA-7 @ 6' % MOISTURE EPA 3550C	6.6	0.050	% OF SAMPLE	AS	8/17/2020
	SAMPLE ID: HA-7 @ 10' % MOISTURE EPA 3550C	6.9	0.050	% OF SAMPLE	AS	8/17/2020
	SAMPLE ID: HA-7 @ 19' % MOISTURE EPA 3550C	6.9	0.050	% OF SAMPLE	AS	8/17/2020
	SAMPLE ID: HA-8 @ 15' % MOISTURE EPA 3550C	2.8	0.050	% OF SAMPLE	AS	8/17/2020

