



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: 20-356
GTA ProjNo: 042221-2

Site Addr: SBC D-4 FLOWLINE RELEASE
Sampled By: STEVEN HEMSTREET/OMPC
Date Rec: 4/22/2021
Time Rec: 10:00 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	4/21/2021	12:00 PM	WATER
2	MW-2	4/21/2021	2:00 PM	WATER
3	MW-3	4/21/2021	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 Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
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COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-356
 LOCATION: SBC D-4 FLOWLINE RELEASE
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-1

GTA PROJECT NO: 042221-2
 GTA SAMPLE NO: 1
 DATE SAMPLED: 4/21/2021
 TIME SAMPLED: 12:00 PM
 DATE RECEIVED: 4/22/2021
 TIME RECEIVED: 10:00 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		4/23/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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
 PROJECT NO: 20-356
 LOCATION: SBC D-4 FLOWLINE RELEASE
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-2

GTA PROJECT NO: 042221-2
 GTA SAMPLE NO: 2
 DATE SAMPLED: 4/21/2021
 TIME SAMPLED: 2:00 PM
 DATE RECEIVED: 4/22/2021
 TIME RECEIVED: 10:00 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		4/23/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-356
LOCATION: SBC D-4 FLOWLINE RELEASE

GTA PROJECT NO: 042221-2
GTA SAMPLE NO: 3

DATE SAMPLED: 4/21/2021
TIME SAMPLED: 4:00 PM
DATE RECEIVED: 4/22/2021
TIME RECEIVED: 10:00 AM

MI

SAMPLE MATRIX: WATER
SAMPLE ID: MW-3

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		4/23/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: BREITBURN OPERATING
PROJECT NO: 20-356
LOCATION: SBC D-4 FLOWLINE RELEASE

GTA PROJECT NO: 042221-2
GTA SAMPLE NO: 1

DATE SAMPLED: 4/21/2021
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 4/22/2021
TIME RECEIVED: 10:00 AM

MI
SAMPLED BY: STEVEN HEMSTREET/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		4,100	500	mg/L (PPM)	TR	4/24/2021	WATER

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

COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-356
 LOCATION: SBC D-4 FLOWLINE RELEASE

GTA PROJECT NO: 042221-2
 GTA SAMPLE NO: 2
 DATE SAMPLED: 4/21/2021
 TIME SAMPLED: 2:00 PM
 DATE RECEIVED: 4/22/2021
 TIME RECEIVED: 10:00 AM

MI
 SAMPLED BY: STEVEN HEMSTREET/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	170	10	mg/L (PPM)	TR	4/24/2021	WATER

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 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: BREITBURN OPERATING
 PROJECT NO: 20-356
 LOCATION: SBC D-4 FLOWLINE RELEASE

GTA PROJECT NO: 042221-2
 GTA SAMPLE NO: 3

DATE SAMPLED: 4/21/2021
 TIME SAMPLED: 4:00 PM
 DATE RECEIVED: 4/22/2021
 TIME RECEIVED: 10:00 AM

MI
 SAMPLED BY: STEVEN HEMSTREET/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-3	CHLORIDE EPA 300.0	200	10	mg/L (PPM)	TR	4/24/2021	WATER

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

