

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: MAVERICK NATURAL RESOURCES

Name:

ClientProj: BREITBURN OPERATING LP

GTA ProjNo: 071219-6

Site Addr: EPA-UIC ANNUAL SAMPLES

Sampled By: BBOP

Date Rec: 7/12/2019

Time Rec: 1:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	ST. BEAVER CREEK 15 228927.00	7/11/2019	7:30 AM	UIC
2	BEAVER CREEK WATER PLANT #1	7/11/2019	8:00 AM	UIC
3	BEAVER CREEK WATER PLANT #2	7/6/2019	11:00 AM	UIC
4	ST. FOSTER 1-28 - 2214803.00	7/9/2019	11:10 AM	UIC
5	BEAVER CREEK WATER PLANT #3	7/6/2019	9:30 AM	UIC
6	ST. GARFIELD 2-10 - 228904.00	7/11/2019	11:00 AM	UIC
7	ST. GARFIELD A4-9 - 2214847.016.00	7/11/2019	1:00 PM	UIC

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 L Chase

Kirk L. Chase/Chemist
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COMPANY: MAVERICK NATURAL RESOURCES

GTA PROJECT NO: 071219-6

PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES

GTA SAMPLE NO: 1

DATE SAMPLED: 7/11/2019

TIME SAMPLED: 7:30 AM

DATE RECEIVED: 7/12/2019

TIME RECEIVED: 1:30 PM

SAMPLED BY: MI
BBOP

SAMPLE MATRIX: UIC

SAMPLE ID: ST. BEAVER CREEK 15 228927.00

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	0.20	0.010	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
CALCIUM DISS EPA 6020A	56	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
IRON TOTAL EPA 6020A	7.0	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
MAGNESIUM DISS EPA 6020A	18	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
POTASSIUM DISS EPA 6020A	1.0	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
SODIUM DISS EPA 6020A	54	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

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DISS = DISSOLVED

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COMPANY: MAVERICK NATURAL RESOURCES
PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: BBOP
SAMPLE ID: ST. BEAVER CREEK 15 228927.00

GTA PROJECT NO: 071219-6
GTA SAMPLE NO: 1
DATE RECEIVED: 7/12/2019
TIME RECEIVED: 1:30 PM
DATE SAMPLED: 7/11/2019
TIME SAMPLED: 7:30 AM
SAMPLE MATRIX: UIC

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	260	10	mg/L (PPM)	TR	7/19/2019
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	7/19/2019
CHLORIDE EPA 300.0	310	10	mg/L (PPM)	LV	7/15/2019
CONDUCTIVITY SM2510-B	1,400	1.0	uS/cm@25C	LV	7/15/2019
pH EPA 150.1 - LAB	8.0	0.10	s.u.	TR	7/19/2019
RESISTIVITY SM 2510A	730	-	ohms x cm	LV	7/15/2019
SPECIFIC GRAVITY SM 2710F	1.003	-	-	LV	7/22/2019
SULFATE EPA 300.0	20	10	mg/L (PPM)	LV	7/15/2019
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	7/12/2019
TOTAL DISSOLVED SOLIDS EPA 160.1	1,300	5.0	mg/L (PPM)	TR	7/18/2019

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COMPANY: MAVERICK NATURAL RESOURCES

GTA PROJECT NO: 071219-6

PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES

GTA SAMPLE NO: 2

DATE SAMPLED: 7/11/2019

TIME SAMPLED: 8:00 AM

DATE RECEIVED: 7/12/2019

TIME RECEIVED: 1:30 PM

SAMPLED BY: MI
BBOP

SAMPLE MATRIX: UIC

SAMPLE ID: BEAVER CREEK WATER PLANT #1

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	0.028	0.010	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
CALCIUM DISS EPA 6020A	25	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
IRON TOTAL EPA 6020A	7.6	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
MAGNESIUM DISS EPA 6020A	6.8	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
POTASSIUM DISS EPA 6020A	0.50	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
SODIUM DISS EPA 6020A	4.6	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A

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COMPANY: MAVERICK NATURAL RESOURCES
PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: BBOP
SAMPLE ID: BEAVER CREEK WATER PLANT #1

GTA PROJECT NO: 071219-6
GTA SAMPLE NO: 2
DATE RECEIVED: 7/12/2019
TIME RECEIVED: 1:30 PM
DATE SAMPLED: 7/11/2019
TIME SAMPLED: 8:00 AM
SAMPLE MATRIX: UIC

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	88	10	mg/L (PPM)	TR	7/19/2019
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	7/19/2019
CHLORIDE EPA 300.0	20	10	mg/L (PPM)	LV	7/15/2019
CONDUCTIVITY SM2510-B	220	1.0	uS/cm@25C	LV	7/15/2019
pH EPA 150.1 - LAB	7.9	0.10	s.u.	TR	7/19/2019
RESISTIVITY SM 2510A	4,500	-	ohms x cm	LV	7/15/2019
SPECIFIC GRAVITY SM 2710F	1.004	-	-	LV	7/22/2019
SULFATE EPA 300.0	ND	10	mg/L (PPM)	LV	7/15/2019
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	7/12/2019
TOTAL DISSOLVED SOLIDS EPA 160.1	200	5.0	mg/L (PPM)	TR	7/18/2019

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GTA PROJECT NO: 071219-6

PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES

GTA SAMPLE NO: 3

DATE SAMPLED: 7/6/2019
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 7/12/2019
TIME RECEIVED: 1:30 PM
SAMPLE MATRIX: UICSAMPLED BY: MI
BBOP

SAMPLE ID: BEAVER CREEK WATER PLANT #2

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	0.22	0.010	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
CALCIUM DISS EPA 6020A	17,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
IRON TOTAL EPA 6020A	4.1	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,000	20	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
POTASSIUM DISS EPA 6020A	4,400	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
SODIUM DISS EPA 6020A	21,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A

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COMPANY: MAVERICK NATURAL RESOURCES
PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: BBOP
SAMPLE ID: BEAVER CREEK WATER PLANT #2

GTA PROJECT NO: 071219-6
GTA SAMPLE NO: 3
DATE RECEIVED: 7/12/2019
TIME RECEIVED: 1:30 PM
DATE SAMPLED: 7/6/2019
TIME SAMPLED: 11:00 AM
SAMPLE MATRIX: UIC

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	180	10	mg/L (PPM)	TR	7/19/2019
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	7/19/2019
CHLORIDE EPA 300.0	130,000	2,000	mg/L (PPM)	LV	7/15/2019
CONDUCTIVITY SM2510-B	300,000	5.0	uS/cm@25C	LV	7/15/2019
pH EPA 150.1 - LAB	6.2	0.10	s.u.	TR	7/19/2019
RESISTIVITY SM 2510A	3.4	-	ohms x cm	LV	7/15/2019
SPECIFIC GRAVITY SM 2710F	1.132	-	-	LV	7/22/2019
SULFATE EPA 300.0	560	50	mg/L (PPM)	LV	7/15/2019
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	7/12/2019
TOTAL DISSOLVED SOLIDS EPA 160.1	190,000	5.0	mg/L (PPM)	TR	7/18/2019

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COMPANY: MAVERICK NATURAL RESOURCES

PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLESSAMPLED BY: MI
BBOP

SAMPLE ID: ST. FOSTER 1-28 - 2214803.00

GTA PROJECT NO: 071219-6

GTA SAMPLE NO: 4

DATE SAMPLED: 7/9/2019
TIME SAMPLED: 11:10 AM
DATE RECEIVED: 7/12/2019
TIME RECEIVED: 1:30 PM
SAMPLE MATRIX: UIC**METALS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	61	1.0	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
CALCIUM DISS EPA 6020A	68,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
IRON TOTAL EPA 6020A	360	10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
MAGNESIUM DISS EPA 6020A	7,500	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
POTASSIUM DISS EPA 6020A	13,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
SODIUM DISS EPA 6020A	32,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A

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COMPANY: MAVERICK NATURAL RESOURCES
PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: BBOP
SAMPLE ID: ST. FOSTER 1-28 - 2214803.00

GTA PROJECT NO: 071219-6
GTA SAMPLE NO: 4
DATE RECEIVED: 7/12/2019
TIME RECEIVED: 1:30 PM
DATE SAMPLED: 7/9/2019
TIME SAMPLED: 11:10 AM
SAMPLE MATRIX: UIC

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	ND	10	mg/L (PPM)	TR	7/19/2019
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	7/19/2019
CHLORIDE EPA 300.0	250,000	2,000	mg/L (PPM)	LV	7/15/2019
CONDUCTIVITY SM2510-B	460,000	5.0	uS/cm@25C	LV	7/15/2019
pH EPA 150.1 - LAB	3.5	0.10	s.u.	TR	7/19/2019
RESISTIVITY SM 2510A	2.2	-	ohms x cm	LV	7/15/2019
SPECIFIC GRAVITY SM 2710F	1.202	-	-	LV	7/22/2019
SULFATE EPA 300.0	72	50	mg/L (PPM)	LV	7/15/2019
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	7/12/2019
TOTAL DISSOLVED SOLIDS EPA 160.1	370,000	5.0	mg/L (PPM)	TR	7/18/2019

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COMPANY: MAVERICK NATURAL RESOURCES

PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLESSAMPLED BY: MI
BBOP

SAMPLE ID: BEAVER CREEK WATER PLANT #3

GTA PROJECT NO: 071219-6

GTA SAMPLE NO: 5

DATE SAMPLED: 7/6/2019
TIME SAMPLED: 9:30 AM
DATE RECEIVED: 7/12/2019
TIME RECEIVED: 1:30 PM
SAMPLE MATRIX: UIC**METALS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	0.27	0.010	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
CALCIUM DISS EPA 6020A	41,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
IRON TOTAL EPA 6020A	5.2	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
MAGNESIUM DISS EPA 6020A	8,900	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
POTASSIUM DISS EPA 6020A	5,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
SODIUM DISS EPA 6020A	23,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A

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COMPANY: MAVERICK NATURAL RESOURCES
PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: BBOP
SAMPLE ID: BEAVER CREEK WATER PLANT #3

GTA PROJECT NO: 071219-6
GTA SAMPLE NO: 5
DATE RECEIVED: 7/12/2019
TIME RECEIVED: 1:30 PM
DATE SAMPLED: 7/6/2019
TIME SAMPLED: 9:30 AM
SAMPLE MATRIX: UIC

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	170	10	mg/L (PPM)	TR	7/19/2019
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	7/19/2019
CHLORIDE EPA 300.0	130,000	2,000	mg/L (PPM)	LV	7/15/2019
CONDUCTIVITY SM2510-B	280,000	5.0	uS/cm@25C	LV	7/15/2019
pH EPA 150.1 - LAB	6.2	0.10	s.u.	TR	7/19/2019
RESISTIVITY SM 2510A	3.5	-	ohms x cm	LV	7/15/2019
SPECIFIC GRAVITY SM 2710F	1.137	-	-	LV	7/22/2019
SULFATE EPA 300.0	560	50	mg/L (PPM)	LV	7/15/2019
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	7/12/2019
TOTAL DISSOLVED SOLIDS EPA 160.1	180,000	5.0	mg/L (PPM)	TR	7/18/2019

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COMPANY: MAVERICK NATURAL RESOURCES

GTA PROJECT NO: 071219-6

PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES

GTA SAMPLE NO: 6

DATE SAMPLED: 7/11/2019

TIME SAMPLED: 11:00 AM

DATE RECEIVED: 7/12/2019

TIME RECEIVED: 1:30 PM

SAMPLED BY: MI
BBOP

SAMPLE MATRIX: UIC

SAMPLE ID: ST. GARFIELD 2-10 - 228904.00

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	0.45	0.010	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
CALCIUM DISS EPA 6020A	57,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
IRON TOTAL EPA 6020A	1.7	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
MAGNESIUM DISS EPA 6020A	13,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
POTASSIUM DISS EPA 6020A	6,600	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
SODIUM DISS EPA 6020A	20,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A

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COMPANY: MAVERICK NATURAL RESOURCES
PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: BBOP
SAMPLE ID: ST. GARFIELD 2-10 - 228904.00

GTA PROJECT NO: 071219-6
GTA SAMPLE NO: 6
DATE RECEIVED: 7/12/2019
TIME RECEIVED: 1:30 PM
DATE SAMPLED: 7/11/2019
TIME SAMPLED: 11:00 AM
SAMPLE MATRIX: UIC

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	210	10	mg/L (PPM)	TR	7/19/2019
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	7/19/2019
CHLORIDE EPA 300.0	160,000	2,000	mg/L (PPM)	LV	7/15/2019
CONDUCTIVITY SM2510-B	230,000	5.0	uS/cm@25C	LV	7/15/2019
pH EPA 150.1 - LAB	5.9	0.10	s.u.	TR	7/19/2019
RESISTIVITY SM 2510A	4.3	-	ohms x cm	LV	7/15/2019
SPECIFIC GRAVITY SM 2710F	1.156	-	-	LV	7/22/2019
SULFATE EPA 300.0	120	50	mg/L (PPM)	LV	7/15/2019
SULFIDE SM 4500S D	19	1.0	mg/L (PPM)	KC	7/12/2019
TOTAL DISSOLVED SOLIDS EPA 160.1	220,000	5.0	mg/L (PPM)	TR	7/18/2019

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COMPANY: MAVERICK NATURAL RESOURCES

GTA PROJECT NO: 071219-6

PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES

GTA SAMPLE NO: 7

DATE SAMPLED: 7/11/2019

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 7/12/2019

TIME RECEIVED: 1:30 PM

SAMPLED BY: MI
BBOP

SAMPLE MATRIX: UIC

SAMPLE ID: ST. GARFIELD A4-9 - 2214847.016.00

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	0.42	0.010	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
CALCIUM DISS EPA 6020A	70,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
IRON TOTAL EPA 6020A	1.3	0.10	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
MAGNESIUM DISS EPA 6020A	18,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
POTASSIUM DISS EPA 6020A	17,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A
SODIUM DISS EPA 6020A	28,000	100	mg/L (PPM)	MR/TR	7/24/2019	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: MAVERICK NATURAL RESOURCES
PROJECT NO: BREITBURN OPERATING LP
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: BBOP
SAMPLE ID: ST. GARFIELD A4-9 - 2214847.016.00

GTA PROJECT NO: 071219-6
GTA SAMPLE NO: 7
DATE RECEIVED: 7/12/2019
TIME RECEIVED: 1:30 PM
DATE SAMPLED: 7/11/2019
TIME SAMPLED: 1:00 PM
SAMPLE MATRIX: UIC

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	200	10	mg/L (PPM)	TR	7/19/2019
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	7/19/2019
CHLORIDE EPA 300.0	150,000	2,000	mg/L (PPM)	LV	7/15/2019
CONDUCTIVITY SM2510-B	230,000	5.0	uS/cm@25C	LV	7/15/2019
pH EPA 150.1 - LAB	6.0	0.10	s.u.	TR	7/19/2019
RESISTIVITY SM 2510A	4.3	-	ohms x cm	LV	7/15/2019
SPECIFIC GRAVITY SM 2710F	1.150	-	-	LV	7/22/2019
SULFATE EPA 300.0	140	50	mg/L (PPM)	LV	7/15/2019
SULFIDE SM 4500S D	18	1.0	mg/L (PPM)	KC	7/12/2019
TOTAL DISSOLVED SOLIDS EPA 160.1	220,000	5.0	mg/L (PPM)	TR	7/18/2019

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

DISS = DISSOLVED

CHAIN OF CUSTODY

PROJECT NUMBER <i>Breithurn Operating LP</i>	SITE NAME/ADDRESS <i>See Below</i>	COMPANY/NAME <i>Maverick Natural Resources</i>
SAMPLED BY <i>See Below</i>	COMPANY <i>See Below</i>	GTA PROJECT # <i>UIC 071219-6</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	St. Beaver Creek 15	7-11-19	7:30am	UIC	228927.00
2	Beaver Creek Water Plant 1	7-11-19	8am	UIC	15881 Water Plant 1
3	Beaver Creek Water Plant 2	7-6-19	11am	UIC	Water Plant 2
4	St. Foster 1-28	7-9-19	11:10am	UIC	2214803.00
5	Beaver Creek Water Plant 3	7-6-19	9:30am	UIC	Water Plant 3
6	St. Garfield 2-10	7-11-19	11am	UIC	228904.00
7	St. Garfield 1A49	7-11-19	1pm	UIC	2214847.016.00

BILL TO: *Breithurn Operating LP*
1165 Elkview Dr.
Gaylord, MI 49735

REPORT TO:
Lori Hansen at:
lori.hansen@maverickresources.com

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>Lori Hansen</i>		<i>[Signature]</i>	7/12/19
<i>[Signature]</i>	7/12/19 1:30	<i>[Signature]</i>	7/12/19 1:30p

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