



**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: MAVERICK NATURAL RESOURCES  
Name:  
ClientProj: BREITBURN OPERATING LP  
GTA ProjNo: 082619-8

Site Addr: EPA-UIC ANNUAL SAMPLES  
Sampled By: DB/JG - BBOP  
Date Rec: 8/26/2019  
Time Rec: 4:25 PM

| Sample No. | Sample ID                           | Date Sampled | Time Sampled | Sample Matrix |
|------------|-------------------------------------|--------------|--------------|---------------|
| 1          | STATE CHARLTON 3-6 228709.013.00    | 8/1/2019     | 8:30 AM      | UIC           |
| 2          | HERRINGTON D 1-29 228702.001.00     | 8/1/2019     | 10:30 AM     | UIC           |
| 3          | TERRA ENERGY LTD 1-35 227872.003.00 | 8/1/2019     | 8:00 AM      | UIC           |
| 4          | STATE VIENNA B4-4 21Z8080B44.00     | 7/31/2019    | 8:30 AM      | UIC           |
| 5          | STATE CHARLTON D4-33 21Z8063D433.00 | 7/31/2019    | 7:30 AM      | 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  
Grand Traverse Analytical  
830 Robinwood Court  
Traverse City, MI 49686  
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|             |                                  |                 |           |
|-------------|----------------------------------|-----------------|-----------|
| COMPANY:    | MAVERICK NATURAL RESOURCES       | GTA PROJECT NO: | 082619-8  |
| PROJECT NO: | BREITBURN OPERATING LP           | GTA SAMPLE NO:  | 1         |
| LOCATION:   | EPA-UIC ANNUAL SAMPLES           | DATE SAMPLED:   | 8/1/2019  |
|             |                                  | TIME SAMPLED:   | 8:30 AM   |
|             |                                  | DATE RECEIVED:  | 8/26/2019 |
|             | MI                               | TIME RECEIVED:  | 4:25 PM   |
| SAMPLED BY: | DB/JG - BBOP                     | SAMPLE MATRIX:  | UIC       |
| SAMPLE ID:  | STATE CHARLTON 3-6 228709.013.00 |                 |           |

**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    | 19                   | 1.0        | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| CALCIUM DISS EPA 6020A   | 230                  | 10         | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| IRON TOTAL EPA 6020A     | 12                   | 0.50       | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3020A               |
| MAGNESIUM DISS EPA 6020A | 280                  | 10         | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| POTASSIUM DISS EPA 6020A | 66                   | 0.50       | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| SODIUM DISS EPA 6020A    | 12,000               | 100        | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED



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COMPANY: MAVERICK NATURAL RESOURCES  
 PROJECT NO: BREITBURN OPERATING LP  
 LOCATION: EPA-UIC ANNUAL SAMPLES  
 MI  
 SAMPLED BY: DB/JG - BBOP  
 SAMPLE ID: STATE CHARLTON 3-6  
 228709.013.00

GTA PROJECT NO: 082619-8  
 GTA SAMPLE NO: 1  
 DATE RECEIVED: 8/26/2019  
 TIME RECEIVED: 4:25 PM  
 DATE SAMPLED: 8/1/2019  
 TIME SAMPLED: 8:30 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) | 1,000                | 10         | mg/L (PPM)   | TR             | 9/3/2019             |
| ALKALINITY SM 4500CO2D (CARBONATE)   | 15                   | 10         | mg/L (PPM)   | TR             | 9/3/2019             |
| CHLORIDE EPA 300.0                   | 29,000               | 2,000      | mg/L (PPM)   | LV             | 8/29/2019            |
| CONDUCTIVITY SM2510-B                | 64,000               | 1.0        | uS/cm@25C    | LV             | 8/29/2019            |
| pH EPA 150.1 - LAB                   | 8.2                  | 0.10       | s.u.         | TR             | 9/3/2019             |
| RESISTIVITY SM 2510A                 | 16                   | -          | ohms x cm    | LV             | 8/29/2019            |
| SPECIFIC GRAVITY SM 2710F            | 1.025                | -          | -            | LV             | 8/30/2019            |
| SULFATE EPA 300.0                    | ND                   | 50         | mg/L (PPM)   | LV             | 8/29/2019            |
| SULFIDE SM 4500S D                   | ND                   | 1.0        | mg/L (PPM)   | KC             | 8/27/2019            |
| TOTAL DISSOLVED SOLIDS EPA 160.1     | 35,000               | 5.0        | mg/L (PPM)   | TR             | 9/4/2019             |

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|-------------|---------------------------------|-----------------|-----------|
| COMPANY:    | MAVERICK NATURAL RESOURCES      | GTA PROJECT NO: | 082619-8  |
| PROJECT NO: | BREITBURN OPERATING LP          | GTA SAMPLE NO:  | 2         |
| LOCATION:   | EPA-UIC ANNUAL SAMPLES          | DATE SAMPLED:   | 8/1/2019  |
|             |                                 | TIME SAMPLED:   | 10:30 AM  |
|             |                                 | DATE RECEIVED:  | 8/26/2019 |
|             |                                 | TIME RECEIVED:  | 4:25 PM   |
| SAMPLED BY: | MI<br>DB/JG - BBOP              | SAMPLE MATRIX:  | UIC       |
| SAMPLE ID:  | HERRINGTON D 1-29 228702.001.00 |                 |           |

**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    | 1.6                  | 0.050      | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| CALCIUM DISS EPA 6020A   | 66                   | 0.50       | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| IRON TOTAL EPA 6020A     | 5.4                  | 0.50       | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3020A               |
| MAGNESIUM DISS EPA 6020A | 87                   | 0.50       | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| POTASSIUM DISS EPA 6020A | 29                   | 0.50       | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| SODIUM DISS EPA 6020A    | 6,100                | 100        | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |

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COMPANY: MAVERICK NATURAL RESOURCES  
 PROJECT NO: BREITBURN OPERATING LP  
 LOCATION: EPA-UIC ANNUAL SAMPLES  
 MI  
 SAMPLED BY: DB/JG - BBOP  
 SAMPLE ID: HERRINGTON D 1-29  
 228702.001.00

GTA PROJECT NO: 082619-8  
 GTA SAMPLE NO: 2  
 DATE RECEIVED: 8/26/2019  
 TIME RECEIVED: 4:25 PM  
 DATE SAMPLED: 8/1/2019  
 TIME SAMPLED: 10:30 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) | 31                   | 10         | mg/L (PPM)   | TR             | 9/3/2019             |
| ALKALINITY SM 4500CO2D (CARBONATE)   | 1,300                | 10         | mg/L (PPM)   | TR             | 9/3/2019             |
| CHLORIDE EPA 300.0                   | 11,000               | 2,000      | mg/L (PPM)   | LV             | 8/29/2019            |
| CONDUCTIVITY SM2510-B                | 28,000               | 1.0        | uS/cm@25C    | LV             | 8/29/2019            |
| pH EPA 150.1 - LAB                   | 8.4                  | 0.10       | s.u.         | TR             | 9/3/2019             |
| RESISTIVITY SM 2510A                 | 35                   | -          | ohms x cm    | LV             | 8/29/2019            |
| SPECIFIC GRAVITY SM 2710F            | 1.009                | -          | -            | LV             | 8/30/2019            |
| SULFATE EPA 300.0                    | 82                   | 50         | mg/L (PPM)   | LV             | 8/29/2019            |
| SULFIDE SM 4500S D                   | ND                   | 1.0        | mg/L (PPM)   | KC             | 8/27/2019            |
| TOTAL DISSOLVED SOLIDS EPA 160.1     | 13,000               | 5.0        | mg/L (PPM)   | TR             | 9/4/2019             |

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|             |                                     |                 |           |
|-------------|-------------------------------------|-----------------|-----------|
| COMPANY:    | MAVERICK NATURAL RESOURCES          | GTA PROJECT NO: | 082619-8  |
|             |                                     | GTA SAMPLE NO:  | 3         |
| PROJECT NO: | BREITBURN OPERATING LP              | DATE SAMPLED:   | 8/1/2019  |
| LOCATION:   | EPA-UIC ANNUAL SAMPLES              | TIME SAMPLED:   | 8:00 AM   |
|             |                                     | DATE RECEIVED:  | 8/26/2019 |
|             | MI                                  | TIME RECEIVED:  | 4:25 PM   |
| SAMPLED BY: | DB/JG - BBOP                        | SAMPLE MATRIX:  | UIC       |
| SAMPLE ID:  | TERRA ENERGY LTD 1-35 227872.003.00 |                 |           |

**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    | 0.62                 | 0.050      | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| CALCIUM DISS EPA 6020A   | 64                   | 10         | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| IRON TOTAL EPA 6020A     | 5.5                  | 0.50       | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3020A               |
| MAGNESIUM DISS EPA 6020A | 220                  | 10         | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| POTASSIUM DISS EPA 6020A | 78                   | 10         | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| SODIUM DISS EPA 6020A    | 12,000               | 100        | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |

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COMPANY: MAVERICK NATURAL RESOURCES  
 PROJECT NO: BREITBURN OPERATING LP  
 LOCATION: EPA-UIC ANNUAL SAMPLES  
 MI  
 SAMPLED BY: DB/JG - BBOP  
 SAMPLE ID: **TERRA ENERGY LTD 1-35  
 227872.003.00**

GTA PROJECT NO: 082619-8  
 GTA SAMPLE NO: 3  
 DATE RECEIVED: 8/26/2019  
 TIME RECEIVED: 4:25 PM  
 DATE SAMPLED: 8/1/2019  
 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) | 1,400                | 10         | mg/L (PPM)   | TR             | 9/3/2019             |
| ALKALINITY SM 4500CO2D (CARBONATE)   | 26                   | 10         | mg/L (PPM)   | TR             | 9/3/2019             |
| CHLORIDE EPA 300.0                   | 19,000               | 2,000      | mg/L (PPM)   | LV             | 8/29/2019            |
| CONDUCTIVITY SM2510-B                | 48,000               | 1.0        | uS/cm@25C    | LV             | 8/29/2019            |
| pH EPA 150.1 - LAB                   | 8.3                  | 0.10       | s.u.         | TR             | 9/3/2019             |
| RESISTIVITY SM 2510A                 | 21                   | -          | ohms x cm    | LV             | 8/29/2019            |
| SPECIFIC GRAVITY SM 2710F            | 1.016                | -          | -            | LV             | 8/30/2019            |
| SULFATE EPA 300.0                    | 180                  | 50         | mg/L (PPM)   | LV             | 8/29/2019            |
| SULFIDE SM 4500S D                   | ND                   | 1.0        | mg/L (PPM)   | KC             | 8/27/2019            |
| TOTAL DISSOLVED SOLIDS EPA 160.1     | 24,000               | 5.0        | mg/L (PPM)   | TR             | 9/4/2019             |

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|-------------|---------------------------------|-----------------|-----------|
| COMPANY:    | MAVERICK NATURAL RESOURCES      | GTA PROJECT NO: | 082619-8  |
| PROJECT NO: | BREITBURN OPERATING LP          | GTA SAMPLE NO:  | 4         |
| LOCATION:   | EPA-UIC ANNUAL SAMPLES          | DATE SAMPLED:   | 7/31/2019 |
|             |                                 | TIME SAMPLED:   | 8:30 AM   |
|             |                                 | DATE RECEIVED:  | 8/26/2019 |
|             | MI                              | TIME RECEIVED:  | 4:25 PM   |
| SAMPLED BY: | DB/JG - BBOP                    | SAMPLE MATRIX:  | UIC       |
| SAMPLE ID:  | STATE VIENNA B4-4 21Z8089B44.00 |                 |           |

**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    | 6.2                  | 0.050      | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| CALCIUM DISS EPA 6020A   | 450                  | 10         | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| IRON TOTAL EPA 6020A     | 12                   | 0.50       | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3020A               |
| MAGNESIUM DISS EPA 6020A | 560                  | 10         | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| POTASSIUM DISS EPA 6020A | 110                  | 10         | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |
| SODIUM DISS EPA 6020A    | 21,000               | 100        | mg/L (PPM)   | MR/TR          | 9/10/2019             | EPA 3005A               |

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|             |                                 |                 |           |
|-------------|---------------------------------|-----------------|-----------|
| COMPANY:    | MAVERICK NATURAL RESOURCES      | GTA PROJECT NO: | 082619-8  |
| PROJECT NO: | BREITBURN OPERATING LP          | GTA SAMPLE NO:  | 4         |
| LOCATION:   | EPA-UIC ANNUAL SAMPLES          | DATE RECEIVED:  | 8/26/2019 |
|             | MI                              | TIME RECEIVED:  | 4:25 PM   |
| SAMPLED BY: | DB/JG - BBOP                    | DATE SAMPLED:   | 7/31/2019 |
|             |                                 | TIME SAMPLED:   | 8:30 AM   |
| SAMPLE ID:  | STATE VIENNA B4-4 21Z8089B44.00 | 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) | 760                  | 10         | mg/L (PPM)   | TR             | 9/3/2019             |
| ALKALINITY SM 4500CO2D (CARBONATE)   | ND                   | 10         | mg/L (PPM)   | TR             | 9/3/2019             |
| CHLORIDE EPA 300.0                   | 48,000               | 2,000      | mg/L (PPM)   | LV             | 8/29/2019            |
| CONDUCTIVITY SM2510-B                | 97,000               | 1.0        | uS/cm@25C    | LV             | 8/29/2019            |
| pH EPA 150.1 - LAB                   | 7.9                  | 0.10       | s.u.         | TR             | 9/3/2019             |
| RESISTIVITY SM 2510A                 | 10                   | -          | ohms x cm    | LV             | 8/29/2019            |
| SPECIFIC GRAVITY SM 2710F            | 1.039                | -          | -            | LV             | 8/30/2019            |
| SULFATE EPA 300.0                    | 420                  | 50         | mg/L (PPM)   | LV             | 8/29/2019            |
| SULFIDE SM 4500S D                   | ND                   | 1.0        | mg/L (PPM)   | KC             | 8/27/2019            |
| TOTAL DISSOLVED SOLIDS EPA 160.1     | 55,000               | 5.0        | mg/L (PPM)   | TR             | 9/4/2019             |

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COMPANY: MAVERICK NATURAL RESOURCES  
 PROJECT NO: BREITBURN OPERATING LP  
 LOCATION: EPA-UIC ANNUAL SAMPLES  
 MI  
 SAMPLED BY: DB/JG - BBOP  
 SAMPLE ID: STATE CHARLTON D4-33  
 21Z8063D433.00

GTA PROJECT NO: 082619-8  
 GTA SAMPLE NO: 5  
 DATE RECEIVED: 8/26/2019  
 TIME RECEIVED: 4:25 PM  
 DATE SAMPLED: 7/31/2019  
 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) | 1,000                | 10         | mg/L (PPM)   | TR             | 9/3/2019             |
| ALKALINITY SM 4500CO2D (CARBONATE)   | 25                   | 10         | mg/L (PPM)   | TR             | 9/3/2019             |
| CHLORIDE EPA 300.0                   | 18,000               | 2,000      | mg/L (PPM)   | LV             | 8/29/2019            |
| CONDUCTIVITY SM2510-B                | 45,000               | 1.0        | uS/cm@25C    | LV             | 8/29/2019            |
| pH EPA 150.1 - LAB                   | 8.4                  | 0.10       | s.u.         | TR             | 9/3/2019             |
| RESISTIVITY SM 2510A                 | 22                   | -          | ohms x cm    | LV             | 8/29/2019            |
| SPECIFIC GRAVITY SM 2710F            | 1.013                | -          | -            | LV             | 8/30/2019            |
| SULFATE EPA 300.0                    | 65                   | 50         | mg/L (PPM)   | LV             | 8/29/2019            |
| SULFIDE SM 4500S D                   | ND                   | 1.0        | mg/L (PPM)   | KC             | 8/27/2019            |
| TOTAL DISSOLVED SOLIDS EPA 160.1     | 22,000               | 5.0        | mg/L (PPM)   | TR             | 9/4/2019             |

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