

CHEMICAL USE REPORT - FOR 2018

| GALLONS | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| TOTAL INFLUENT FLOW | 2,359,297,000 | 1,844,606,000 | 2,014,148,000 | 2,101,955,000 | 1,887,988,000 | 2,020,671,000 | 2,094,199,000 | 2,127,692,000 |
| **FLOW, MAY - SEPTEMBER | 901,167,000 | 729,640,000 | 808,344,000 | 905,023,000 | 780,667,000 | 769,869,000 | 902,376,000 | 923,535,000 |
| TOTAL \$ COST OF PURCHASES | | | | | | | | |
| TREATMENT CHEMICAL | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> |
| FERRIC SULFATE - ACTIFLO | \$448,904.10 | \$388,000.50 | \$345,375.00 | \$289,797.00 | \$282,560.00 | \$306,169.00 | 271,749.00 | \$250,405.00 |
| POLYMER - ACTIFLO | 52,973.80 | 52,659.20 | ## 44,903.57 | 67,245.65 | 41,055.00 | 48,185.00 | 41,528.00 | 46,772.00 |
| POLYMER - DAF | 23,414.00 | 20,930.00 | 23,920.00 | 23,920.00 | 20,930.00 | 26,910.00 | 26,910.00 | 39,184.00 |
| SULFURIC ACID - BIOFILTER | 49,639.34 | 32,851.47 | 43,709.57 | 20,458.29 | 34,709.00 | 35,368.00 | 26,291.00 | 26,159.00 |
| SODIUM HYPOCHLORITE** | 12,078.67 | 13,995.34 | 18,563.48 | 14,315.34 | 14,695.00 | 14,530.00 | 19,726.00 | 21,049.00 |
| SODIUM BISULFATE** | 4,940.04 | 3,867.65 | 2,630.16 | 2,632.29 | 2,326.00 | 3,943.00 | 2,902.00 | 4,682.00 |
| TOTAL | \$591,949.95 | \$512,304.16 | \$479,101.78 | \$418,368.57 | \$396,275.00 | \$435,105.00 | \$389,106.00 | \$388,251.00 |
| \$ COST / MGD TREATED | | | | | | | | |
| TREATMENT CHEMICAL | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> |
| FERRIC SULFATE - ACTIFLO | \$190.27 | \$210.34 | \$171.47 | \$137.87 | \$149.66 | \$151.49 | \$129.76 | \$117.00 |
| POLYMER - ACTIFLO | 22.45 | 28.55 | 22.29 | 31.99 | 21.75 | 23.84 | 19.83 | 22.00 |
| POLYMER - DAF | 9.92 | 11.35 | 11.88 | 11.38 | 11.08 | 13.32 | 12.84 | 18.00 |
| SULFURIC ACID - BIOFILTER | 21.04 | 17.81 | 21.70 | 9.73 | 18.38 | 17.50 | 12.55 | 12.00 |
| SODIUM HYPOCHLORITE** | 13.40 | 19.18 | 22.96 | 15.82 | 18.82 | 18.87 | 21.86 | 22.80 |
| SODIUM BISULFATE** | 5.48 | 5.30 | 3.25 | 2.91 | 2.98 | 5.12 | 3.22 | 5.00 |
| TOTAL | \$262.56 | \$292.53 | \$253.55 | \$209.70 | \$222.67 | \$230.14 | \$200.06 | \$196.80 |
| TOTAL GALLONS PURCHASED | | | | | | | | |
| TREATMENT CHEMICAL | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> |
| FERRIC SULFATE - ACTIFLO | 231,938 | 201,651 | 181,300 | 149,457 | 142,252 | 171,981 | 179,228 | 214,017 |
| POLYMER - ACTIFLO | 5,030 | 5,000 | ## 5,225 | 6,375 | 4,677 | 5,502 | 4,731 | 5,225 |
| POLYMER - DAF | 2,114 | 1,925 | 2,200 | 2,200 | 1,930 | 2,476 | 2,476 | 3,575 |
| SULFURIC ACID - BIOFILTER | 14,238 | 10,780 | 14,031 | 6,914 | 11,587 | 13,067 | 10,062 | 10,062 |
| SODIUM HYPOCHLORITE** | 8,919 | 9,188 | 11,832 | 9,130 | 9,220 | 9,116 | 12,360 | 13,156 |
| SODIUM BISULFATE** | 2,914 | 2,204 | 1,542 | 1,533 | 1,399 | 2,396 | 1,754 | 2,838 |

CHEMICAL USE REPORT - FOR 2018 CONTINUED

GALLONS OF CHEMICAL / MGD TREATED

| TREATMENT CHEMICAL | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> |
|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FERRIC SULFATE - ACTIFLO | 98.31 | 109.32 | 90.01 | 71.10 | 75.35 | 85.10 | 85.61 | 100.6 |
| POLYMER - ACTIFLO | 2.13 | 2.71 | 2.59 | 3.03 | 2.48 | 2.72 | 2.26 | 2.5 |
| POLYMER - DAF | 0.90 | 1.04 | 1.09 | 1.05 | 1.02 | 1.23 | 1.18 | 1.7 |
| SULFURIC ACID - BIOFILTER | 6.03 | 5.84 | 6.97 | 3.29 | 6.14 | 6.47 | 4.80 | 4.7 |
| SODIUM HYPOCHLORITE** | 9.90 | 12.59 | 14.64 | 10.09 | 11.81 | 11.84 | 13.69 | 14.2 |
| SODIUM BISULFATE** | 3.23 | 3.02 | 1.91 | 1.69 | 1.79 | 1.19 | 1.94 | 3.0 |

** May through September chemical use only

Emptied bulk tank contents and switched to totes. Gallons estimated.

GAS, ELECTRIC AND WATER CONSUMPTION

| NATURAL GAS | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Therms | 87,515 | 80,140 | 101,195 | 104,315 | 81,752 | 70,013 | 76,013 | 89,690 |
| Cost \$ | \$82,357.54 | \$57,132.00 | \$60,247.96 | \$90,580.17 | \$51,661.64 | \$38,836.02 | \$44,583.71 | \$47,502.00 |

| POTABLE WATER | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Cubic Feet | 446,600 | 542,449 | 519,381 | 447,992 | 385,130 | 380,677 | 458,500 | 476,500 |
| Cost \$ | \$23,370 | \$27,306.64 | \$17,715.85 | \$21,010.64 | \$20,226.56 | \$20,436.52 | \$22,278.74 | \$22,655.00 |

| ELECTRICAL POWER | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| KWH | 7,253,463 | 7,151,221 | 6,755,637 | 7,589,498 | 7,356,888 | 7,446,624 | 7,468,201 | 7,682,476 |
| COST \$ | \$485,898.56 | \$518,223.94 | \$489,531.09 | \$527,632.56 | \$534,006.19 | \$499,300.03 | \$509,871.00 | \$508,330.00 |
| KWH / MGD Treated | 3,074.4 | 3,876.8 | 3,354.1 | 3,610.7 | 3,896.68 | 3,684.62 | 3,566.14 | 3,610 |