

## CHEMICAL USE REPORT - FOR 2017

GALLONS	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
TOTAL INFLUENT FLOW	2,391,172,000	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
**FLOW, MAY - SEPTEMBER	1,156,045,000	901,167,000	729,640,000	808,344,000	905,023,000	780,667,000	769,869,000	902,376,000

### TOTAL \$ COST OF PURCHASES

TREATMENT CHEMICAL	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
FERRIC SULFATE - ACTIFLO	\$429,425.29	\$448,904.10	\$388,000.50	\$345,375.00	\$289,797.00	\$282,560.00	\$306,169.00	271,749.00
POLYMER - ACTIFLO	56,026.00	52,973.80	52,659.20	## 44,903.57	67,245.65	41,055.00	48,185.00	41,528.00
POLYMER - DAF	32,432.27	23,414.00	20,930.00	23,920.00	23,920.00	20,930.00	26,910.00	26,910.00
SULFURIC ACID - BIOFILTER	30,023.28	49,639.34	32,851.47	43,709.57	20,458.29	34,709.00	35,368.00	26,291.00
SODIUM HYPOCHLORITE**	13,559.72	12,078.67	13,995.34	18,563.48	14,315.34	14,695.00	14,530.00	19,726.00
SODIUM BISULFATE**	<u>7,436.89</u>	<u>4,940.04</u>	<u>3,867.65</u>	<u>2,630.16</u>	<u>2,632.29</u>	<u>2,326.00</u>	<u>3,943.00</u>	<u>2,902.00</u>
TOTAL	\$568,903.45	\$591,949.95	\$512,304.16	\$479,101.78	\$418,368.57	\$396,275.00	\$435,105.00	\$389,106.00

### \$ COST / MGD TREATED

TREATMENT CHEMICAL	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
FERRIC SULFATE - ACTIFLO	\$179.59	\$190.27	\$210.34	\$171.47	\$137.87	\$149.66	\$151.49	\$129.76
POLYMER - ACTIFLO	23.43	22.45	28.55	22.29	31.99	21.75	23.84	19.83
POLYMER - DAF	13.56	9.92	11.35	11.88	11.38	11.08	13.32	12.84
SULFURIC ACID - BIOFILTER	12.56	21.04	17.81	21.70	9.73	18.38	17.50	12.55
SODIUM HYPOCHLORITE**	11.73	13.40	19.18	22.96	15.82	18.82	18.87	21.86
SODIUM BISULFATE**	<u>6.43</u>	<u>5.48</u>	<u>5.30</u>	<u>3.25</u>	<u>2.91</u>	<u>2.98</u>	<u>5.12</u>	<u>3.22</u>
TOTAL	\$247.30	\$262.56	\$292.53	\$253.55	\$209.70	\$222.67	\$230.14	\$200.06

### TOTAL GALLONS PURCHASED

TREATMENT CHEMICAL	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
FERRIC SULFATE - ACTIFLO	205,953	231,938	201,651	181,300	149,457	142,252	171,981	179,228
POLYMER - ACTIFLO	5,906	5,030	5,000	## 5,225	6,375	4,677	5,502	4,731
POLYMER - DAF	2,368	2,114	1,925	2,200	2,200	1,930	2,476	2,476
SULFURIC ACID - BIOFILTER	11,518	14,238	10,780	14,031	6,914	11,587	13,067	10,062
SODIUM HYPOCHLORITE**	10,146	8,919	9,188	11,832	9,130	9,220	9,116	12,360
SODIUM BISULFATE**	4,639	2,914	2,204	1,542	1,533	1,399	2,396	1,754

## CHEMICAL USE REPORT - FOR 2017 CONTINUED

**GALLONS OF CHEMICAL / MGD TREATED**

TREATMENT CHEMICAL	2010	2011	2012	2013	2014	2015	2016	2017
FERRIC SULFATE - ACTIFLO	86.13	98.31	109.32	90.01	71.10	75.35	85.10	85.61
POLYMER - ACTIFLO	2.47	2.13	2.71	2.59	3.03	2.48	2.72	2.26
POLYMER - DAF	0.99	0.90	1.04	1.09	1.05	1.02	1.23	1.18
SULFURIC ACID - BIOFILTER	4.82	6.03	5.84	6.97	3.29	6.14	6.47	4.80
SODIUM HYPOCHLORITE**	8.78	9.90	12.59	14.64	10.09	11.81	11.84	13.69
SODIUM BISULFATE**	4.01	3.23	3.02	1.91	1.69	1.79	1.19	1.94

\*\* May through September chemical use only

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

**GAS, ELECTRIC AND WATER CONSUMPTION**

NATURAL GAS	2011	2012	2013	2014	2015	2016	2017
Therms	87,515	80,140	101,195	104,315	81,752	70,013	76,013
Cost \$	\$82,357.54	\$57,132.00	\$60,247.96	\$90,580.17	\$51,661.64	\$38,836.02	\$44,583.71

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

ELECTRICAL POWER	2010	2011	2012	2013	2014	2015	2016	2017
KWH	7,229,374	7,253,463	7,151,221	6,755,637	7,589,498	7,356,888	7,446,624	7,468,201
COST \$	\$478,170.12	\$485,898.56	\$518,223.94	\$489,531.09	\$527,632.56	\$534,006.19	\$499,300.03	\$509,871.00
KWH / MGD Treated	3,023.4	3,074.4	3,876.8	3,354.1	3,610.7	3,896.68	3,684.62	3,566.14