

Operations Update

Plant Operations – Plant operations and treatment were good for the month of April. No TSS credits were used from the Water Quality Trading Plan.

Bio-Solids Hauling – Had a very good virtual meeting with United Liquid Waste, Seven Oaks (Jon Lamers), and Tilth Agronomy (Bill). Thanks to Seven Oaks for working with the District to plant crops that will be coming off mid to late June, which will lead into early corn coming off in July. United Liquid Waste was very agreeable to this due to they're not as busy with other municipalities during this time. Plus in the fall of the year bio-solids hauling is very dependent on weather.

United Liquid Waste came in the week of May 4th to haul some bio-solids. There was another farmer who had 60-100 acres that they could inject on. This will be 1.0 to 1.5 million gallons that will be land applied this spring giving the plant ample room in storage to get through to late June.

SCADA Dialer (Win911) – The Win911 dialer system has been updated to the new TopView Alarm Notification Software. So far so good!

Chemical Use Report – Additions were made to the chemical use report for natural gas, potable water, and electricity. Also note the phosphorus removal data included at the bottom.

Maintenance Update

Final Effluent Reuse Pump – The new reuse pump has been ordered.

Biostyr Blower – The Biostyr blower has been ordered. A short time after the last commission meeting the District did receive a check from Selective Insurance for \$36,551.20. After the blower is installed, we will send in receipts so Selective can release the recoverable depreciation.

Post ATAD Blower – Blower has been received.

Main Gate Operator – EZ Glide is back into full operation and have recently installed the gate operator.

HOV Agricultural Land (Grass Buffers) – No update.

Kevin Skogman
Director of Operations & Maintenance

CHEMICAL USE REPORT - FOR 2019 CONTINUED

GALLONS OF CHEMICAL / MGD TREATED								
TREATMENT CHEMICAL	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
FERRIC SULFATE - ACTIFLO	109.32	90.01	71.10	75.35	85.10	85.61	85.2	87.1
POLYMER - ACTIFLO	2.71	2.59	3.03	2.48	2.72	2.26	2.5	1.77
POLYMER - DAF	1.04	1.09	1.05	1.02	1.23	1.18	1.7	1.10
SULFURIC ACID - BIOFILTER	5.84	6.97	3.29	6.14	6.47	4.80	4.7	5.36
SODIUM HYPOCHLORITE**	12.59	14.64	10.09	11.81	11.84	13.69	14.2	16.38
SODIUM BISULFATE**	3.02	1.91	1.69	1.79	1.19	1.94	3.0	3.03

** May through September chemical use only

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

GAS, ELECTRIC AND WATER CONSUMPTION

NATURAL GAS	2012	2013	2014	2015	2016	2017	2018	2019
Therms	80,140	101,195	104,315	81,752	70,013	76,013	89,690	82,885
Cost \$	\$57,132.00	\$60,247.96	\$90,580.17	\$51,661.64	\$38,836.02	\$44,583.71	\$47,502.00	\$ 42,814.71
\$ Cost / MGD Treated	-	-	-	-	-	-	\$22.33	\$ 17.00
Therms / MGD Treated	-	-	-	-	-	-	42	33.24

POTABLE WATER	2012	2013	2014	2015	2016	2017	2018	2019
Cubic Feet	542,449	519,381	447,992	385,130	380,677	458,500	476,500	491,400
Cost \$	\$27,306.64	\$17,715.85	\$21,010.64	\$20,226.56	\$20,436.52	\$22,278.74	\$ 22,655.00	\$ 24,437.90
\$ Cost / MGD Treated	-	-	-	-	-	-	\$ 10.65	\$ 9.80
Cubic Feet / MGD Treated	-	-	-	-	-	-	224	197

ELECTRICAL POWER	2012	2013	2014	2015	2016	2017	2018	2019
KWH	7,151,221	6,755,637	7,589,498	7,356,888	7,446,624	7,468,201	7,682,476	8,051,500
COST \$	\$518,223.94	\$489,531.09	\$527,632.56	\$534,006.19	\$499,300.03	\$509,871.00	\$508,330.00	\$ 504,393.43
KWH / MGD Treated	3,876.8	3,354.1	3,610.7	3,896.68	3,684.62	3,566.14	3,610	3,229.38
\$ Cost / MGD Treated	-	-	-	-	-	-	\$ 238.91	\$ 202.31

2019 PHOSPHORUS

Pounds Total Phosphorus (Influent) In	75,998	LBS
Pounds Total Phosphorus (Effluent) Out to Fox River	3,648	LBS
Pounds Total Phosphorus Removed	72,350	LBS
Percent Phosphorus Removed	95%	