

**City of Port Washington
Wastewater Utility
2014 Annual Report**

Operations Performance Summary

The Wastewater Utility recorded a total annual influent plant flow of 500,719,000 gallons (-1.2%)* in 2014. The average daily plant flow was 1.37 million gallons versus 1.39 million in 2013. There was no bypassing of flow during 2014. Total rainfall in 2014 was 30.7 inches (-22.1 %).

The plant Influent Biochemical Oxygen Demand (BOD) loading was 883,882 pounds (- 4.5 %) for a daily average of 2,422 pounds, or 212 mg/l. The WWTP has typically processed over 1 million pounds each year. The treatment plant reduced the BOD in the effluent to 47,714 pounds(-13.7 %) for the year and a daily average of 131 lbs, or 11 mg/l.

The plant Influent Suspended Solids (TSS) loading was 778,214 pounds (+ 6.7 %), for a daily average of 2132 pounds, or 186 mg/l. The treatment plant reduced the yearly effluent TSS to 30,807 pounds(+0.7 %), with a daily average of 84 pounds or 7 mg/l.

The plant influent phosphorus loading for the year was 18,251(+3.3 %) pounds for a daily average of 50 pounds or 4.4 mg/l. The treatment plant reduced the yearly effluent phosphorus to 2708 pounds(+11.0 %), with a daily average of 7.4 pounds or 0.65 mg/l. Phosphorus removal was achieved with 51,704 pounds (+ 22.9 %) of iron from a ferrous chloride solution.

The City of Port Washington Wastewater Utility Wisconsin Pollutant Discharge Elimination System (WPDES) permit, calls for effluent limits of the above mentioned evaluating criteria to be:

<u>Permit Limits</u>	<u>2014 discharges</u>	<u>% Removal</u>
BOD - 30 mg/l	47,714 lbs.	94.6 %
TSS - 30 mg/l	30,807 lbs.	96.0 %
Phosphorus - 1.0 mg/l	2,708 lbs.	85.2 %

In 2014 the plant produced a total of 1,256,800 gallons (- 30.5 %) of anaerobic sludge. All of this material was land applied and injected. Approximately 25% of sludge produced is land applied in the spring, the remainder is applied in the fall.

The Sewage Utility Rate did not increase in 2014 and no rate increases are planned for 2015.

Capital purchases for 2014 included; New WAS flow meters (\$8720), New WWTP reporting software (\$14,280), New Sludge Room Grinder (\$13,402) Plant Water Heater and Circulator pump (\$3279), New Concrete Steps off NW corner of Aeration Tanks (\$6570).

Major Plant and Collection System Repairs; South Clarifier rebuild (\$102,163), Lift Station 6 HVAC repairs (\$3796), Lift Station 4 Auto Valve replacement (\$3465), East Sludge Bioler valve replacement (\$1007), Replace Lift Station 2 Grinder (\$ 19,391).

**CITY OF
PORT WASHINGTON**

**DEPARTMENT OF
PUBLIC WORKS**

WASTEWATER UTILITY

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Revenue and Expense Summary

2014 Waste Hauler revenue for septage, holding tank, grease trap, landfill leachate, and other assorted wastewaters totaled \$300,588(+8.7%).

Additional information on revenues and expenses vs. the 2014 WWTP budget plan can be found in the final Revenue and Expense Report summary.

The Compliance Maintenance Annual Report (CMAR) which shows in greater detail the operational performance of the Wastewater Utility for 2014 will be forwarded to the DNR Plymouth Service Center, upon approval from the Board of Public Works and the City Council. The CMAR is available on May 31 with a June 30th submittal deadline.

SANITARY SEWER MAINTENANCE SUMMARY

Basic Sanitary Sewer Street Dept. Utility Repairs

- Main and Wisconsin – Fixed sinkhole in road next to sanitary manhole. Replaced top three feet of manhole and replaced casting.
- Legion Hall – replaced 3 feet of sanitary sewer lateral.

* (%) Indicates % increase or decrease from 2013