

WESTERN TOWNSHIPS UTILITIES AUTHORITY

THE SYSTEM

The Western Townships Utilities Authority (WTUA) service area includes the Charter Townships of Canton, Northville and Plymouth. The service area is approximately seventy (70) square miles in size with an estimated population of 138,325 per the Southeast Michigan Council of Governments (SEMCOG) for July 2009.

The three communities are in the northwest corner of Wayne County, Michigan. The rectangular shaped service area is roughly bounded by I-275 on the east, Eight Mile Road to the north, The Wayne County/Washtenaw County border on the west and US-12 on the south. The WTUA service area does not include the City of Plymouth or the City of Northville.

The WTUA system is comprised of a number of gravity interceptors, lift stations, pump stations, force mains and equalization basins. The equalization basins are used for shaving peak flows, especially during wet weather events. General flows are intercepted from the local township sanitary sewer systems using a combination of newly constructed (i.e. 1990's) and older (i.e. 1930's and 1960's) sanitary sewer interceptors. The entire local service area has separated sanitary sewers. About 12,500 homes have footing drains connected to the local sanitary sewers. The flows travel in a southerly direction to the Middle Rouge lift station where pumps lift the wastewater about 55 feet so it may continue to flow by gravity to the Lower Rouge pump station or to the DWSD WWTP via Wayne County. At the Lower Rouge pump station, flows are pumped using large centrifugal pumps, westerly along US-12 to the Ypsilanti Community Utilities Authority (YCUA) wastewater treatment plant via twin force main pipes. Flow from Lower Rouge can also be directed to the DWSD WWTP via Wayne County.

WTUA also owns the final treated effluent pump station at the YCUA wastewater treatment plant, which transports the tertiary level treated flows via large force main pipe back to the Lower Rouge River in Canton Township at a point north of US-12.

WTUA is in the process of expanding the Lower Rouge pump station facility with an anticipated completion of July 2010. The expansion will add an additional 5.5 million gallons of storage capacity as well as increase the pumping capacity of the pump station. With this expansion, the collection and transportation system capacity is sufficient to handle all the projected future flows generated within the WTUA member townships.

WTUA contracts, either on behalf of or through its member townships, for wastewater treatment services at both the YCUA wastewater treatment plant and the Wayne County – Rouge Valley Sewage Disposal System that sends flows on to the Detroit Water and Sewerage Department (DWSD) wastewater Treatment Plant. WTUA has participated in the cost of the expansion of the YCUA wastewater treatment plant. The expanded plant became totally operational in 2007. The expansion of the YCUA wastewater treatment plant provides adequate future treatment capacity needed by the member townships.

TOTAL CONSUMPTION

Calendar Year Ended December 31	Total Adjusted Water Volume (thousand gallons)	Total Wastewater Volume (thousand gallons)
2009	5,222,590	5,725,810
2008	5,832,617	5,934,666
2007	6,011,688	5,695,188
2006	5,365,195	5,855,047
2005	5,896,964	5,438,869
2004	5,594,640	5,508,496
2003	5,541,869	5,464,465
2002	5,732,968	5,560,351
2001	5,222,105	6,037,609
2000	5,208,696	5,988,324

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SEWAGE FLOWS

WTUA has a network of wastewater flow meters around its service area. The metering program began in 1994 and is a major component of our annual operations and maintenance program.

Calendar Year	Daily Flow (MGD)	
	Average	Maximum
2009	15.70	38.63
2008	16.23	47.37
2007	15.58	31.82
2006	16.05	35.05
2005	14.92	35.86
2004	15.06	30.41
2003	14.94	36.87
2002	14.36	26.44
2001	16.14	37.13
2000	15.62	35.42

TOP TWENTY MAJOR USERS OF THE WTUA SYSTEM

While about 80% of the flow generated within the WTUA service area is residential wastewater, the following business and institutions comprise our top twenty list of users, based on volume of water used.

No.	Township	Business/Institution Name	Annual Usage*
1	Plymouth	Absopure	112,529
2	Northville	Scott Regional Center	21,951
3	Northville	Veolia Environmental (actual wastewater discharged)	20,650
4	Plymouth	Automotive Components Holding	12,999
5	Canton	American Yazaki	12,700
6	Canton	Lifetime Fitness	12,200
7	Plymouth	Tower Automotive	9,310
8	Northville	Northville Schools	7,646
9	Canton	Salem High School	7,400
10	Northville	Hawthorn Center	7,138
11	Plymouth	Johnson Controls, Inc.	7,006
12	Canton	Waltonwood at Cherry Hill	6,800
13	Canton	A.D. Transport	6,600
14	Canton	IKEA	6,300
15	Canton	Canton High School	6,300
16	Canton	Metaltec Manufacturing	6,000
17	Plymouth	Compuware Sports Arena	5,310
18	Canton	Plymouth High School	5,300
19	Plymouth	Hilton Garden Inn	5,139
20	Plymouth	Plymouth Industrial	5,122

*All usage units are expressed in thousands of gallons.

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HISTORICAL REVENUES & EXPENDITURES

Below is a table that depicts the operating revenues and expenditures for WTUA since 2000.

Fiscal Year September 30	Operating Revenues	Operating Expenses	Surplus
2010*	\$ 13,757,347	\$ 13,757,347	\$ -
2009	12,632,428	12,632,428	-
2008	11,804,040	11,804,040	-
2007	11,811,545	11,811,545	-
2006	10,115,627	10,115,627	-
2005	10,172,593	10,168,593	4,000
2004	10,846,880	10,838,380	8,500
2003	9,836,837	9,827,337	9,500
2002	9,863,688	9,852,188	11,500
2001	8,907,363	8,907,363	-
2000	7,653,217	7,648,717	4,500

*Current year budget.

WTUA NET ASSETS

The table below shows the net assets over the past ten years.

Fiscal Year Ended September 30	Net Assets
2009	\$ 69,138,230
2008	53,311,884
2007	41,514,024
2006	37,582,401
2005	30,953,324
2004	29,999,425
2003	28,564,414
2002	8,970,156
2001	4,869,091
2000	890,934

CURRENT RATE

WTUA is reimbursed for its costs incurred by the member Townships. Costs are billed to the Townships on a monthly basis. The imputed rate of operations for the last two fiscal years was \$2.18 and \$2.01 per thousand gallons of wastewater processed, respectively. The imputed rate of all billings to the Townships for operations, current capital contributions and debt payments was \$ 6.54 per thousand gallons of wastewater processed for the past fiscal year. The increase from the prior year rate of \$ 5.73 per thousand gallons of wastewater processed is due mainly to an increase in capital contributions for the Lower Rouge basin expansion.