

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 158,786 per the Southeast Michigan Council of Governments (SEMCOG) data as of July 2019.

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. 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.

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 contracts, either on behalf of or through its member townships, for wastewater treatment services at the YCUA wastewater treatment plant.

TOTAL CONSUMPTION

Calendar Year Ended December 31	Total Adjusted Water Volume (thousand gallons)	Total Wastewater Volume (thousand gallons)
2019	4,678,966	5,253,449
2018	4,699,858	5,179,868
2017	5,253,815	5,325,623
2016	5,327,966	5,748,684
2015	4,712,000	5,546,613
2014	4,513,720	5,580,509
2013	4,750,707	5,391,372
2012	5,552,564	5,037,299
2011	5,357,506	6,150,809
2010	5,212,910	5,346,946

WESTERN TOWNSHIPS UTILITIES AUTHORITY

SEWAGE FLOWS

WTUA maintains a network of flow meters around its service area to monitor wastewater flows. The table below provides the average daily flow and maximum daily flow for the last ten years.

Calendar Year	Daily Flow (MGD)	
	Average	Maximum
2019	15.68	34.36
2018	16.51	34.97
2017	16.54	37.27
2016	15.70	37.33
2015	15.19	35.71
2014	15.29	31.57
2013	14.76	36.74
2012	13.76	28.51
2011	16.85	50.86
2010	14.64	47.39

TOP TWENTY MAJOR USERS OF THE WTUA SYSTEM

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

No.	Township	Business/Institution Name	Annual Usage*
1	Plymouth	Absopure Water Company	121,482
2	Northville	Highland Lakes	38,923
3	Plymouth	Tower Automotive	26,231
4	Northville	Park Place Apartments	24,822
5	Northville	Advanced Disposal (actual wastewater discharged)	18,656
6	Canton	Glen Ridge MFG Homes	16,609
7	Northville	Kings Mill	15,469
8	Northville	Terrace at Northville Ridge	12,451
9	Northville	Springwater Park	11,834
10	Canton	Lifetime Fitness	10,437
11	Canton	Metaltec Steel	10,425
12	Canton	Yazaki North America, Inc.	10,215
13	Northville	Northville Forrest	9,876
14	Canton	Westpoint Manor	9,358
15	Canton	Royal Holiday Park	9,202
16	Plymouth	Robert Bosch Corp.	8,859
17	Plymouth	Saint John's Complex	88,118
18	Plymouth	Aunt Millie's Bakeries	8,560
19	Northville	Northville Woods Apartments	8,445
20	Canton	Waltonwood at Cherry Hill	8,190

*All usage units are expressed in thousands of gallons.

WESTERN TOWNSHIPS UTILITIES AUTHORITY

HISTORICAL REVENUES & EXPENDITURES

Below is a table that depicts the operating revenues and expenditures for WTUA since 2011. Due to GASB 68, WTUA recorded a liability for YCUA's UAAL for Pension at our fiscal year-end in 2015. WTUA negotiated a fixed amount of YCUA's pension UAAL that WTUA is responsible for; an amount that is being paid in 180 monthly payments, according to the 4th amendment to the WTUA-YCUA contract. The excess revenues are/were used to pay down this liability, hence, why there is a surplus shown of revenues less expenditures.

Fiscal Year September 30	Operating Revenues	Operating Expenses	Surplus
2020*	\$ 11,371,106	\$ 11,138,988	\$ 232,118
2019	8,729,603	8,497,485	232,118
2018	8,938,688	8,706,880	231,808
2017	15,368,278	15,116,821	251,457
2016	14,901,203	14,436,970	464,233
2015	14,379,036	14,379,036	-
2014	12,824,009	12,824,009	-
2013	12,121,008	12,121,008	-
2012	12,222,616	12,222,616	-
2011	11,914,384	11,914,384	-

*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
2019	\$ 121,845,650
2018	112,936,078
2017	106,521,178
2016	100,908,445
2015	95,910,446
2014	89,719,125
2013	83,889,705
2012	79,677,402
2011	76,145,605
2010	73,050,648

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 \$1.65 and \$1.77 per thousand gallons of wastewater processed, respectively. The imputed rate of all billings to the Townships for operations, current capital contributions and debt payments for the last two fiscal years was \$4.25 and \$4.04 per thousand gallons of wastewater processed, respectively.