



VILLAGE OF WILLIAMS BAY

250 Williams Street | PO Box 580 | Williams Bay | WI | 53191 | vi.williamsbay.wi.gov

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NOTICE

WATER & SEWER (W&S) COMMITTEE MEETING

WEDNESDAY, JULY 12, 2023 AT 6:30 PM

Town Hall Informational Meeting

Village Hall Council Room

250 Williams Street

Williams Bay, WI 53191

AGENDA

The following agenda items may be considered for Discussion, Consideration, or Action

- I. Call to Order**
- II. Status Report on Water & Sewer System and Projects**
- III. Discussion**
- IV. Adjourn**

Rob Umans

Water & Sewer Chair

Requests from persons with disabilities, who need assistance to participate in this meeting or hearing, should be made to the Village Clerk's office in advance so the appropriate accommodations can be made.

Posted: 07/03/2023 5:00 PM

Williams Bay - Water Rate increase effective April 1st 2022

From Rob Umans

03/08/2022

Residential 5/8 " and 3/4" Water Usage rates

# Residents	Ave daily use in gallons	Annual use in gallons	Water Use rate per 1,000 gallons	Annual Bill	Increase per 1k gal	New Rate per 1000 gallons	New annual bill	Annual increase	Increase per month
1	70	25550	\$3.52	\$89.94	\$0.25	\$3.77	\$96.32	\$6.39	\$0.53
2	70	51100	\$3.52	\$179.87	\$0.25	\$3.77	\$192.65	\$12.78	\$1.06
3	70	76650	\$3.52	\$269.81	\$0.25	\$3.77	\$288.97	\$19.16	\$1.60
4	70	102200	\$3.22	\$329.08	\$0.43	\$3.65	\$373.03	\$43.95	\$3.66
5	70	127750	\$3.22	\$411.36	\$0.43	\$3.65	\$466.29	\$54.93	\$4.58
6	70	153300	\$3.22	\$493.63	\$0.43	\$3.65	\$559.55	\$65.92	\$5.49

Note: 1985 rate

04/01/2022 rate

Residential 5/8 " and 3/4" Water Base rates

	Current Per Quarter	New rate Per Quarter	Difference Per Quarter						Increase per month
Flat rate	\$29.00	\$30.00	\$1.00						\$0.33

Note: 1985 rate 04/01/2022 rate

Residential 5/8 " and 3/4" Water Public Fire Protection rates

	Current Per Quarter	New rate Per Quarter	Difference Per Quarter						Increase per month
Flat rate	\$18.75	\$26.76	\$8.01						\$2.67

Note: 1985 rate 04/01/2022 rate

# Residents	Water Totals	70 Gallons/day/person	Annual Bill 1985	Average Per Qtr		Annual Bill 2022	Average Per Qtr	Ave Incr Per Qtr
1			\$280.94	\$70.23		\$323.36	\$80.84	\$10.61
2			\$370.87	\$92.72		\$419.69	\$104.92	\$12.20
3			\$460.81	\$115.20		\$516.01	\$129.00	\$13.80
4			\$520.08	\$130.02		\$600.07	\$150.02	\$20.00
5			\$602.36	\$150.59		\$693.33	\$173.33	\$22.74
6			\$684.63	\$171.16		\$786.59	\$196.65	\$25.49

Estimates of Upcoming Sanitary Sewer Utility Project Cost Phase 1,Village of Williams Bay, Wisconsin

06/13/23

Planned Year	Item	Need For Project	Org Est Cost	Adj Est Cost	Actual Cost
2022	Sewer Televising -- LS 4 and LS 5 Gravity Systems	Identify Clear Water Entry Locations - See the 01-10-22 Engineer's Report	\$15,000		
2023	Mainline Repairs Associated with Televising	Placeholder for Sanitary Sewer Leaks	\$200,000		
2023	STH 67 Sanitary Sewer Improvements North/South	Sanitary Sewer associated with WDOT Construction	\$600,000		\$218,101
2026	STH 67 Sanitary Sewer Improvements East/West	Sanitary Sewer associated with WDOT Construction	\$0	\$615,000	
2023	Harris Road LS and Force Main Planning and Design	Need for development and for existing servie area	\$200,000		\$32,632
2024	Harris Road LS and Force Main Construction	Need for development and for existing servie area	\$1,800,000		
2025	Sanitary Sewer Replacements -- Future Street Projects	Prevent the need to dig new street for sanitary sewer and lateral repairs	\$800,000		
		Sub Totals =	\$3,615,000	\$615,000	
		Grand Totals =	\$3,615,000	\$4,230,000	\$250,733

Borrowing 2022	Total	\$2,800,000	Final
Borrowing 2025	Total		

Estimates of Upcoming Water Utility Cost Phase 1, Village of Williams Bay, Wisconsin

06/13/23

Start yr	Item	Need for project	Org Est Cost	Adj Est Cost	Actual Cost
2022	Optimize Corrosion Control Investigation and Pilot Study	See the June 30,2021 letter from the WDNR regarding Department Modifications of Optimal Corrosion Control Treatment determination answer due 12-31-2022	\$120,000		
2022	Southwick Creek Realignment-Design and Permitting	Needed to expand at the water plant and remove the water plant from the floodway	\$50,000		\$0
2022	Loch Vista water main/hydrants	Requested by private subdivision	\$1,100,000		
2023	Southwick Creek Realignment-Construction	Needed to expand at the water plant and remove the water plant from the floodway	\$500,000	\$0	\$529
		No WDNR participation. Must be done in winter			
2022	Well 2 pump replacement	Well 2 pump is from 1980's and needs to be deeper	\$250,000		
2023	Well 3 pump upgrades	Pump needs servicing/upgrades. Last service 2004	\$0	\$300,000	
2023	Waterplant out of floodzone study	SEWERPC to perform study.	\$0	\$55,000	
2022	Chlorination Improvement Design and Permitting	Phase 2 of Chlorination Control Investigation	\$300,000		\$49,986
2023	Chlorination Improvement -Construction	Water plant Modifications to include chlorine for control of ammonia,granular media replacement, and booster pumps for the high zone	\$2,500,000		
2023	Reactor Cleaning and Painting and Permitting	This needs to be done every 20 years. If not done,the Village will not provide soft water,or reduce radium	\$200,000		\$5,010
2023	STH 67 Water Main Improvements North/South	Water main associated with WDOT Construction	\$1,000,000		\$430,116
2026	STH 67 Water Main Improvements East/west	Water main associated with WDOT Construction	\$0	\$4,100,000	
2025	Future Street Improvements - Water Main Relay	Placeholder - Pending approval of street capital improvement plan	\$800,000		
2025	Theatre Road Water tower	Pay off balloon loan balance 12/15/2025	\$0	\$324,345	
2027	Water Tower Replacements - Design and Permitting	Prevent high cost of repainting Potawatomi,Collie, and North/West towers	\$250,000		
2029	New 500,000 Gallon Water Tower	Replace future storage loss and provide equilization and fire protection	\$2,500,000		
2030	Water Plant Expansion	Meet future demand	\$2,500,000		
2031	Water Tower Removal	Prevent the need to repaint	\$250,000		
		Sub Total	\$12,320,000	\$4,279,345	\$485,641
		Grand Total	\$12,320,000	\$16,599,345	\$485,641

Borrowing 2022 \$5,600,000
Borrowing 2025

Final

Village of Williams Bay Comprehensive Plan 2023 – Chapter 8 Utilities and Community Facilities – pages 68 and 69

- **Water Utilities System Overview** > The Village of Williams Bay water system consists of 3 wells, a water treatment facility plant with dual clearwell storage tanks, 4 elevated storage tanks, and over 30 miles of water mains divided into 2 pressure zones. This system provides approximately 0.33 million gallons per day (MGD) of water on an average day to nearly 3,000 residents: this increases to nearly 0.65 MGD during the summer. The water treatment plant is located along Elkhorn Road approximately 800 feet north of Geneva Street: the plant was originally constructed in 1930. Additions and modifications were made in the facility in 1951, 1984 and 1986. The treatment plant utilizes lime and alum for treatment of the raw water. The Village’s water distribution system contains more than 30 miles of water mains. The oldest mains of 76,313 ft dates to 1920-1940, 36,937 ft to 1941-1960.
- **Water Utilities Planned Upgrades and Improvements Phase 1 and Phase 2**
- **Phase 1 2023 – 2030**
 - >Optimize Corrosion Control /Chlorination Improvements
 - >Well 2 pump replacement
 - >Well 3 inspections and upgrades
 - >Reactor cleaning painting and permitting.
 - >Lower and Upper Loch Vista water main replacement
 - >STH 67 Water main replacement
 - >Water tower replacement. Add a new 0.50 MG tank and remove the Collie Street, Potawatomi Road, and Olive Street smaller tanks due to significant maintenance requirements.
 - >Water plant improvements: Add ammonia treatment and replace the service pumps.
 - >Water plant improvements: Increase the capacity with a second lime reactor, additional filtration, and clearwell storage.
 - >Future street improvements. Water main relay. Pending approval of street capital improvement plan.
 - >The projected cost for Phase 1 is approximately \$ 11.5 million dollars. The Village secured financing for \$5.8 million dollars as per late 2022.
 - > The upgrades and expansion will increase pumping capacity by 400 gallons per minute and serve an additional 2,100 people.
- **Phase 2 2031- 2040+**
 - > Replace 30 miles of watermains and approximately 297 fire hydrants.
- **Sewer Utilities System Overview** >The Village Sewer collection system includes approximately 27 miles of sewer pipe, 3 miles of force main, approximately 640 manholes and 8 lift stations. All wastewater from the Village flows to Walworth County Metropolitan Sewerage District (WalCoMet) for treatment. The Village lift stations are monitored via a central computer at the Village’s water treatment plant. Lift stations No 1, No 2, No 3 and No 5 still use the original structure and are greater than 50 years old. Lift station No 4 was completely upgraded in the late 1980’s, Lift station No 6was constructed in the 1990’s Lift station No 7 was constructed in 2005 and No 8 in 2006 as part of Bailey Estates. The older lift stations need electrical upgrades. Lift station No 3 (Harris Road) has capacity issues when heavier than normal precipitation events, or spring snow melts occur.
- **Sewer Utilities Planned Upgrades and Improvements Phase 1 and Phase 2**
- **Phase 1 2023-2025**
 - >STH 67 Sanitary Sewer Improvements associated with WDOT Construction
 - >Harris Road lift station No 3 Planning/design and construction.
 - > Sanitary Sewer replacement and Sewer line lining associated with upgrades and sewer line leaks. Includes future streets installations.
 - >The projected cost for Phase 1 is approximately \$ 3.6 million dollars. The Village secured financing for \$2.8 million dollars as per late 2022.
- **Phase 2 2026-2030**
 - >Remodel Lift stations No 1,2,4,5,6,7 and 8. Upgrade capacity as development warrants.

