

## **2020 Utility Bill Summary**

		2019		2020		Percent Increase
		Annual Charges	Monthly Charges	Annual Charges	Monthly Charges	
Sanitary Sewer Charge for Average						
Demand Charge (5/8)	1	\$ 171.10	\$ 14.26	\$ 173.20	\$ 14.43	5.6%
Volume (GAL)	49,368	\$ 171.33	\$ 14.28	\$ 188.30	\$ 15.69	
Total Sanitary Sewer Bill:		\$ 342.43	\$ 28.54	\$ 361.50	\$ 30.12	
Landfill Remediation Fee for Average						
Equivalent Meter	1	\$ 7.80	\$ 0.65	\$ 8.40	\$ 0.70	7.7%
Stormwater Charge for Average						
Customer Charge	1	\$ 18.00	\$ 1.50	\$ 19.80	\$ 1.65	14.8%
Imperious Area (sq ft)	2234	\$ 69.92	\$ 5.83	\$ 81.54	\$ 6.80	
Pervious Area (sq ft)	7010	\$ 16.82	\$ 1.40	\$ 18.92	\$ 1.58	
Total Stormwater Bill:		\$ 104.74	\$ 8.73	\$ 120.26	\$ 10.03	
Total Bill:		\$ 454.97	\$ 37.92	\$ 490.16	\$ 40.85	7.7%

## 2020 Utility Rates - Statistical Analysis

		2015	2016	2017	2018	2019	2020 Budget	% Chg
SEWER UTILITY	Total Customers	65,591	65,732	67,158	67,503	67,879	68,200	0.5%
	Total Equivalent Meters	84,935	84,905	87,294	88,010	88,715	89,000	0.3%
	Total Billed Volume (MG)	8,103	7,972	7,639	7,615	7,354	7,301	-0.7%
	Restaurant Billed Volume (MG)	0	0	0	233	566	566	0.0%
	Q&Q Billed Volume (MG)	331	369	358	335	283	278	-1.7%
	"Regular" Billed Volume (MG)	7,358	7,362	7,281	7,047	6,505	6,457	-0.7%
	Oscar Mayer Volume (MG)	414	241	0	0	0	0	
	Volume - MMSD (MG)	9,288	9,785	9,977	10,860	10,981	10,614	-3.3%
	CBOD - MMSD (LBS)	16,841,176	18,942,748	18,939,890	21,051,175	20,934,886	21,008,400	0.4%
	SS - MMSD (LBS)	19,133,401	19,898,155	18,483,340	20,033,245	19,918,282	20,313,000	2.0%
	TKN - MMSD (LBS)	3,654,726	3,734,650	3,926,531	4,038,751	3,869,185	3,916,200	1.2%
	TP - MMSD (LBS)	491,949	488,870	469,209	474,375	448,674	452,010	0.7%
	Average Annual Residential Volume (GAL)	53,856	52,360	50,864	50,864	49,368	49,368	0.0%
	Average Monthly Residential Volume (GAL)	4,488	4,363	4,239	4,239	4,114	4,114	0.0%
	MMSD Treatment Charges:							
	Fixed Demand	\$ 4,203,900	\$ 4,638,441	\$ 5,474,470	\$ 5,670,155	\$ 5,703,100	\$ 6,024,973	5.6%
	Volume	\$ 15,073,972	\$ 17,664,378	\$ 16,460,474	\$ 18,920,923	\$ 19,296,584	\$ 21,488,179	11.4%
	Total MMSD Charges	\$ 19,277,871	\$ 22,302,820	\$ 21,934,944	\$ 24,591,078	\$ 24,999,683	\$ 27,513,152	10.1%
	Debt Service	\$ 3,736,609	\$ 3,768,943	\$ 4,929,993	\$ 5,286,823	\$ 6,177,893	\$ 5,182,583	-16.1%
	Average Customer Bill (Annual)	\$ 283.51	\$ 294.34	\$ 313.21	\$ 323.06	\$ 342.43	\$ 361.50	5.6%
	Average Customer Bill (Monthly)	\$ 23.63	\$ 24.53	\$ 26.10	\$ 26.92	\$ 28.54	\$ 30.13	5.6%
	Total Customer Revenue	\$ 32,340,410	\$ 33,717,687	\$ 35,192,116	\$ 37,239,538	\$ 39,654,076	\$ 44,394,880	12.0%
STORMWATER	Customers	61,163	61,803	61,899	62,528	63,018	63,018	0.0%
	Impervious Area (sf)	432,310,341	438,406,449	440,896,692	443,892,034	447,495,599	447,495,599	0.0%
	Credits	(19,257,754)	(19,533,525)	(18,273,086)	(19,267,901)	(19,184,418)	(19,184,418)	0.0%
	Pervious Area (sf)	1,362,595,772	1,391,071,926	1,398,053,364	1,401,836,417	1,393,099,553	1,393,099,553	0.0%
	Credits	(246,876,109)	(266,267,253)	(268,072,646)	(272,076,947)	(263,979,692)	(263,979,692)	0.0%
	Debt Service	\$ 5,847,085	\$ 6,016,552	\$ 6,043,868	\$ 6,443,489	\$ 7,006,819	\$ 7,771,297	10.9%
	Average Customer Bill (Annual)	\$ 88.34	\$ 91.30	\$ 93.02	\$ 95.16	\$ 104.74	\$ 120.26	14.8%
	Total Customer Revenue	\$ 13,910,434	\$ 14,736,716	\$ 15,158,349	\$ 15,618,968	\$ 16,767,594	\$ 19,929,738	18.9%
LANDFILL	Total Equivalent Meters	101,843	102,950	104,439	105,578	106,550	106,550	0.0%
	Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Average Customer Bill (Annual)	\$ 4.80	\$ 4.80	\$ 4.80	\$ 7.80	\$ 7.80	\$ 8.40	7.7%
	Total Customer Revenue	\$ 486,114	\$ 488,403	\$ 497,776	\$ 713,325	\$ 825,541	\$ 894,400	8.3%

**Madison Storm Utility Rates History**

		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Base Charge (Semi-annual)		\$ 4.90	\$ 5.45	\$ 5.70	\$ 6.00	\$ 7.20	\$ 7.80	\$ 6.60	\$ 6.90	\$ 7.20	\$ 9.00	\$ 9.90
Impervious (Square Foot) (Semi-annual)		\$ 0.010870	\$ 0.012095	\$ 0.0126075	\$ 0.0129905	\$ 0.0132010	\$ 0.0133000	\$ 0.0142800	\$ 0.0143400	\$ 0.0147000	\$ 0.0156500	\$ 0.0182500
Pervious (Square Foot) (Semi-annual)		\$ 0.000765	\$ 0.000850	\$ 0.0008875	\$ 0.0009145	\$ 0.0009295	\$ 0.0009500	\$ 0.0010200	\$ 0.0010800	\$ 0.0011000	\$ 0.0012000	\$ 0.0013500
Stormwater Charge for Average Residential User												
Customer Charge	1	\$ 4.90	\$ 5.45	\$ 5.70	\$ 6.00	\$ 7.20	\$ 7.80	\$ 6.60	\$ 6.90	\$ 7.20	\$ 9.00	\$ 9.90
Impervious Area	2234	\$ 24.28	\$ 27.02	\$ 28.17	\$ 29.02	\$ 29.49	\$ 29.71	\$ 31.90	\$ 32.04	\$ 32.84	\$ 34.96	\$ 40.77
Pervious Area	7010	\$ 5.36	\$ 5.96	\$ 6.22	\$ 6.41	\$ 6.52	\$ 6.66	\$ 7.15	\$ 7.57	\$ 7.71	\$ 8.41	\$ 9.46
		\$ 34.54	\$ 38.43	\$ 40.09	\$ 41.43	\$ 43.21	\$ 44.17	\$ 45.65	\$ 46.51	\$ 47.75	\$ 52.37	\$ 60.13
Percent Increase		10.0%	11.3%	4.3%	3.3%	4.3%	2.2%	3.4%	1.9%	2.7%	9.7%	14.8%

**MADISON STORMWATER UTILITY  
2020 RATE SCHEDULE**

**Customer Base Charge = \$ 1.65** for each lot or parcel of land each one month

**Pervious Area Charge= \$ 0.23** per 1,000 square feet of pervious area each one month

**Impervious Area Charge= \$ 3.04** per 1,000 square feet of impervious area each one month

## 1.0 **Purpose.**

Section 37.05(4)(d) of the Madison General Ordinances provides as follows:

Adjustments to the Measured Impervious and Pervious Areas: Individual property owners may submit, to the Administrative Authority, site and building surveys or documentation of mitigation or treatment measures which more accurately determine or reflect the total area, impervious area and/or pervious area. The Administrative Authority may reduce the measured impervious area and/or pervious area after taking into consideration the volume or peaking of stormwater or surface water discharge that is caused by the area of impervious surfaces, topography, and other surface characteristics, and the extent and reliability of mitigation or treatment measures that demonstrably and materially reduce the costs to the Stormwater Utility. It shall be the burden of the property owner to demonstrate by a preponderance of the evidence that a fee adjustment is warranted. Any such adjustments shall be made in accordance with the Rate Adjustment Policy established by the Administrative Authority and approved by the Common Council.

The purpose of this report is to establish a Rate Adjustment Policy for the Storm Water Utility.

## 2.0 **Regulatory Guidance.**

It is expected that rate adjustment policies for stormwater utilities will become uniform throughout Wisconsin as decisions are made by the courts and the regulatory agencies. The rules and procedures of a storm water utility are not approved by the Public Service Commission of the State of Wisconsin (PSC). However, customers can complain to the PSC regarding storm water service charges and rules of operation.

On August 9, 1999, Plainwell, a tissue manufacturer filed a complaint with the PSC regarding the storm water service charges and practices of the City of Eau Claire, which had established a storm water utility in 1996 and began billing customers in January of 1998.

Plainwell occupies approximately 50 acres of land along the banks of the Chippewa River. About 81% of its area drains directly to the river and Plainwell has a storm water discharge permit issued by the Environmental Protection Agency and the Wisconsin Department of Natural Resources.

On February 22, 2001, the Public Service Commission of the State of Wisconsin (PSC) issued its final order regarding the complaint filed by Plainwell Tissue Corporation Concerning the Storm Water Service Charges and Practices of the City of Eau Claire (PSC Docket No. 9500-SS-100.) That order found the Eau Claire storm water service charges to be unreasonable and unjustly discriminatory and ordered that the methodology developed by the PSC staff to be implemented.

## 3.0 **Rate Adjustment Policy.**

3.1 Following the approval of the annual budget for the Storm Water Utility by the Common Council, the City Engineer shall allocate the operating and capital costs to the following categories:

Customer Charge. This category shall be for those costs relating to the calculation, processing, and collection of the bills to customers to recover the cost of the service, including interest and depreciation.

Water Quality Improvements. This category shall represent the cost of services related to water quality, including street cleaning, regulatory permitting, and the development and construction of facilities and practices to remove pollutants from storm water or from the receiving lakes and streams, including interest and depreciation.

Shoreline Protection. This category shall include those costs, including interest and depreciation, to

protect the shorelines of lakes and streams from erosion.

Storm Water Conveyance System. This category shall include those costs to maintain, repair and construct the public stormwater system, including interest and depreciation, excepting those costs attributed to the previous categories.

- 3.2 Customers shall, upon request, be entitled to a reduction to their impervious area and pervious area which is determined to drain directly to Lakes Mendota, Wingra or Monona, the Yahara River, Wingra (Murphy), Nine Springs Creek or Starkweather Creek. The amount of this reduction shall be recalculated annually as part of the rate structure described in 3.1 and maintained on file with the City Engineer.
- 3.3 Customers shall, upon request, be entitled to a reduction to their impervious and pervious area which eliminates storm water runoff to the public stormwater system both throughout the one year and the 10 year design storm event. The amount of this reduction shall be recalculated annually as part of the rate structure described in 3.1 and maintained on file with the City Engineer.
- 3.4 Customers may provide more specific data with regard to the measurement and calculation of impervious or pervious area.
- 3.5 Ag Credit—

Customers who own parcels of land in excess of 5 acres of area and zoned in a classification that allows for agricultural use that request and are determined to be eligible for a rate adjustment for Agricultural purposes, shall receive full credit from the time the credit is granted, for a period of 10 years. In order to receive this credit, the Ag parcels must comply with State Standards for basic erosion control, prevention and control of gulley erosion, and employ practices such as 'no till' and grassed waterways. Existing customers already receiving the credit, as of the date of the adaption of this revised policy, will continue to do so until they have received it for a total of ten years , after which time the credit can be renewed for up to 10 more years by meeting the State Standards described above.

For the purposes of this section, a "full credit" is a reduction in the billable area to five acres, including all impervious areas and the homestead if one exists.

Credits due to agricultural use will be field verified bi-annually and must be certified to be in compliance with State Standards, by the Dane County Land Conservation Department. Parcels found to no longer be actively farmed, used for agricultural purposes, or no longer meeting the minimum State Standards as described above, will lose the credit in the next billing cycle, after being notified by letter. The City may backbill to recover any credits that were wrongfully applied. The land owner shall also receive written notice of expiration at least 6 months prior to any 10 year term expiration. Any fees to receive the Dane County certification are the responsibility of the customer.

- 3.6 Customers who own parcels of land that are zoned as wetlands or designated as wetland by a regulatory authority, shall, upon request, be entitled to a reduction of one-half of the area within the defined wetland. This adjustment shall be calculated prior to the adjustment provided by Paragraph 3.2.

The runoff from wetlands varies from site to site. A wetland can be considered a pond, in which all runoff would be expected to flow from the site. In the alternative, a wetland may be found to not discharge any water during a storm event. This adjustment is an average and does not preclude a property owner determining the runoff from a particular wetland with a more rigorous analysis in accordance with Paragraph 3.4 or 3.7.

- 3.7 Customers who own parcels of land used for Conservation purposes or parcels that have special or

unique runoff circumstances may provide independent run-off calculations, to determine a percentage reduction in pervious area. The amount of the reduction will be based upon the runoff generated, compared to a normal pervious surface with a runoff coefficient of 68. The percentage reduction is subject to the approval of the City Engineer.

Rate adjustments due to independent run-off calculations shall remain in effect until conditions change to alter the runoff characteristics. Customers shall promptly report any changes to the City Engineer. At the time of application, the customer or his/her agent shall provide all necessary information to the City Engineer to document eligibility. This information could include runoff calculations, monitoring results, documentation of a double ring infiltrometer test, or other evidence, stamped by a registered professional engineer.

#### 4.0 **Administration.**

The customer shall be responsible for the preparation of a rate adjustment application. The applications shall be prepared by or under the direction of a professional engineer registered in the State of Wisconsin who shall certify that the application meets the adjustment criteria. Applications shall be submitted to the City Engineer and determination shall be applied administratively. If the customer does not accept the City Engineer's determination, the customer may request to schedule for a rate adjustment hearing before the City of Madison Board of Public Works.