



Welcome to Hannibal's Stormwater Utility

Our Stormwater Mission

Our core stormwater management goals are to

- ❖ Sustainably manage the City's stormwater infrastructure now and into the future
- ❖ Mitigate flooding
- ❖ Reduce pollution in our creeks and rivers
- ❖ Protect natural resources in our watershed
- ❖ Enhance our community's safety and health



We have taken on stormwater management responsibility

With your support our additional role is to....

- ❖ Maintain and operate a complex drainage system
- ❖ Rehabilitate and improve our drainage system
- ❖ Comply with all State and Federal stormwater regulatory requirements
- ❖ Collaborate with community partners



To Sustain a Beautiful and Safe Hannibal

It takes....

- ❖ Community awareness and support
- ❖ Cost effective, sustainable and dedicated funding
- ❖ Fair and equitable approach to recovering costs
- ❖ Comprehensive stormwater management program



Water is Life, Let's Protect our Waters



Why adopt a Stormwater User Charge?

Stormwater Management Needs

The HBPW has now taken on the responsibility for stormwater management in the City. The stormwater system requires maintenance, repair, enhancements and replacement to meet existing and future needs, including flood mitigation and water quality protection. We need dedicated resources to meet the City's stormwater management needs.



The HBPW is also subject to the requirements of the Federal Clean Water Act and is required to maintain and manage stormwater discharges in accordance with permit requirements.

Equity and Fairness

HBPW has now taken on the role of stormwater management without any associated funding. Hence, we now have to establish a fair, sustainable, and dedicated funding mechanism. The stormwater user charge provides a fair funding mechanism.

Key Benefits

- ❖ Provides a dedicated funding source for stormwater management.
- ❖ Provides the ability to use impervious area as the basis for assessing the stormwater charge
- ❖ Fair approach as properties will pay in proportion to the amount of impervious area that exists on a property
- ❖ Offers fee reduction opportunities to properties that implement stormwater management practices which go above and beyond local ordinance requirements.



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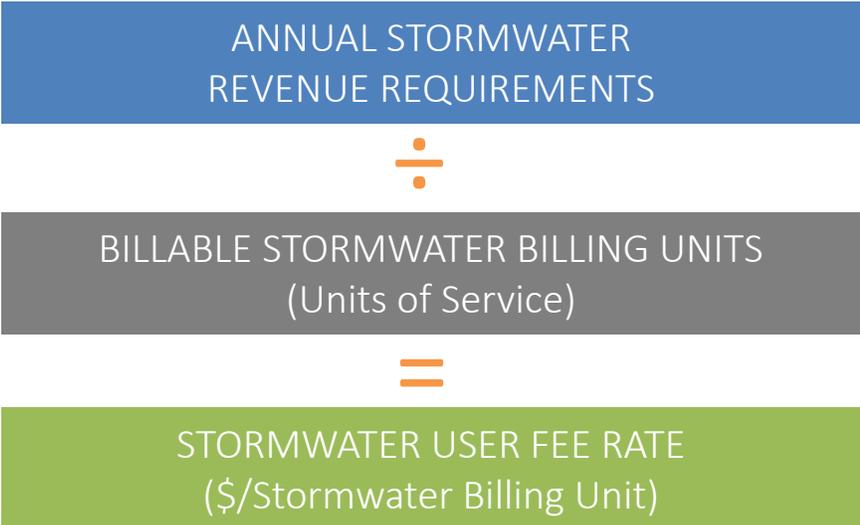
We have developed a sound financial plan based on a thorough review of system needs and regulatory requirements

Line No.	Description	Fiscal Year Ending June 30,						
		2019	2020	2021	2022	2023	2024	2025
			\$	\$	\$	\$	\$	\$
Revenues								
1	Total Revenue from SW User Charge	0	0	3,175,300	3,464,000	3,464,000	3,464,000	3,464,000
2	Loan from Electric Utility	400,000	1,200,000	0	0	0	0	0
3	Interest Income	700	0	400	1,300	1,600	1,700	1,800
4	Total Revenues	400,700	1,200,000	3,175,700	3,465,300	3,465,600	3,465,700	3,465,800
Revenue Requirements								
5	Operation & Maintenance Expenses	897,000	1,180,800	1,350,900	1,604,600	1,309,500	1,325,600	1,365,600
6	Uncollected Revenues	0	0	214,956	234,500	225,743	216,986	199,471
7	Total Debt Service	40,000	120,000	296,100	294,100	892,100	178,100	178,100
8	Cash Financing of Capital Projects	0	0	1,066,400	1,231,000	1,001,200	1,750,000	1,689,200
9	Total Revenue Requirements	937,000	1,300,800	2,928,356	3,364,200	3,428,543	3,470,686	3,432,371
10	Net Balance	(536,300)	(100,800)	247,344	101,100	37,057	(4,986)	33,429
11	Beginning Fund Balance (a)	600,000	63,700	(37,100)	210,244	311,344	348,401	343,415
12	End of Year Balance	63,700	(37,100)	210,244	311,344	348,401	343,415	376,844

(a) Beginning Fund Balance for FY19 reflects estimated funds from electric utility loan as of July 1, 2018.

How did we determine the Stormwater User Charge?

The Stormwater User Charge is calculated by taking the total revenue requirements divided by total billable stormwater billing units



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What is Impervious Area?

Impervious area refers to hardscaped or compacted surface that restricts stormwater from being absorbed into the ground at the same rate natural surfaces such as grass and wooded areas do, causing an increase in stormwater runoff.

Examples of impervious surface include buildings, sheds, patios, decks, porches, driveways, loading docks, parking lots, sidewalks, compacted clay and gravel, and other similar non-porous areas. The more impervious area a property has, the more stormwater will runoff into the stormwater drainage system.

What is a SWU?

The monthly Stormwater User Charge will be based on Stormwater Units (SWU). One SWU is equivalent to 500 sq. ft. of impervious area. SWUs will be calculated for each property within the City of Hannibal.

How are SWUs determined for my parcel?

For **residential** customers, a parcel's total impervious area is computed based (i) actual footprint of the building, plus (ii) calculated allowance for estimated impervious area due to driveways, patios, etc.

For **non-residential** customers, a parcel's total impervious area is computed based on (i) actual footprint of the building(s), plus (ii) a runoff coefficient of 50% applied to the remaining parcel area.

For **parcels with no building footprint**, the impervious area is computed based on a runoff coefficient of 15% applied to the total parcel lot size.

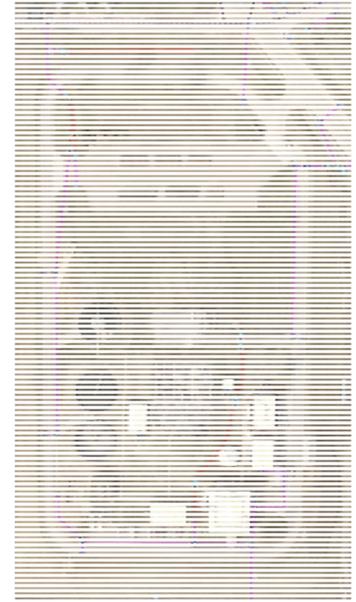


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Proposed Stormwater User Charge

The stormwater user charge is scheduled to appear on utility bills from HBPW **beginning in July of 2020**. Each parcel's monthly charge will depend upon the estimated amount of impervious area measured in square feet. The proposed rates are described below.



Rate Structure

For every parcel, the charge will be individually calculated based on parcel specific impervious area (IA)

Stormwater Rate = \$1.39 per 500 square feet of Impervious Area

Single Family Residential		
1	Lot Size	0.46 acres
2	Lot Size	20,000 sq. ft.
3	Building Footprint	1,500 sq. ft.
4	Allocated Driveway IA	685 sq. ft.
5	Total Billable IA (line3 + 4)	2,185 sq. ft.
6	Estimated SW Units (line 5 / 500 sq. ft.)	4.4
7	Preliminary FY2021 SWU Charge	\$ 1.39
8	Preliminary FY2021 Monthly Fee (line 6 x 7)	\$ 6.07
Non-Residential		
1	Lot Size	5 acres
2	Lot Size	217,800 sq. ft.
3	Building Footprint	20,000 sq. ft.
4	Calculated Associated IA	98,900 sq. ft.
5	Total Billable IA (line 3 + 4)	118,900 sq. ft.
6	Estimated SW Units (line 5 / 500 sq. ft.)	237.8
7	Preliminary FY2021 SWU Charge	\$ 1.39
8	Preliminary FY2021 Monthly Fee (line 6 x 7)	\$ 330.54



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Once fully implemented, the utility will raise \$2.9-3.4 million each year to improve the City's stormwater system, including the failing infrastructure shown below.



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