

City of Park Ridge



October 12, 2015

Stormwater Utility Presentation #1



Purpose of Tonight's Presentation

- Explanation of a Stormwater Utility (SWU)
- Provide preliminary results and fee estimates
- Summarize feedback from Open House



<u>Study Process – Public Involvement</u>

- 1. Open House #1 (8/31/15)
 - Explain SWU concept, need, and preliminary fees by zoning class
 - Answer resident questions
- 2. City Council Update Presentation (10/12/15)
 - Incorporate feedback from Open House
 - Formalize preliminary results and anticipated fees
 - Opportunity for resident input to Council
- 3. City Council Final Presentation
 - Present final study report
 - Council to decide whether to establish Stormwater Utility



What is a Stormwater Utility?

- A Stormwater Utility (SWU) is a fee charged to all parcels in the City based on their contribution of stormwater runoff into the sewer system
 - More runoff = Greater chance of flooding
- What is an "impervious area"?
 - Those surfaces that prevent stormwater from infiltrating into the soil



Sidewalk/Driveways/Patios



Building Roofs



Parking Lots



Stormwater Utility Feasibility Study

How is a Stormwater Utility Equitable?

- An SWU is a fair and **equitable method** of funding stormwater projects
- The fee charged to each parcel is based on the runoff it generates, as defined by its impervious area
- More impervious area = bigger contribution to the sewer system = higher stormwater fee
- All properties, including tax exempt properties, are assessed a fee



Why is a Stormwater Utility Being Considered?

- Many expensive infrastructure projects need to be built to address flooding problems throughout the City
- City needs to establish a dedicated funding source to pay for stormwater projects



Why is a Dedicated Funding Source Necessary?

- Paying for projects through the City's General Fund means competing with other priorities such as police, fire, public works, capital improvements, etc.
- Increasing the Sewer and Water fees is not equitable since it is not based on impervious coverage
- Increasing property taxes is not equitable because many tax-exempt properties would not be included



What would a Stormwater Utility Pay For?

- SWU's **can** be used to fund anything related to the stormwater system
 - Stormwater Infrastructure projects
 - Repair/replacement of sewer mains
 - Costs to maintain the existing system, including City personnel
 - Street sweeping
 - Administrative costs for permits, studies, etc.
- At this time, planning has assumed the SWU funds would be used for design and construction of **new infrastructure** projects
 - Limits the funds necessary to be collected



- A conceptual outline of a Stormwater Master Plan has been developed
 - Projects from Citywide Sewer Study still under discussion (\$21 million)
 - Northwest Park, Mayfield Estates
 - Green Infrastructure projects (\$3 million)
 - Examples could include adding green elements to "traditional" street projects such as developing a green alley program
 - Stormwater Storage projects (\$12 million)
 - Examples could include relief sewer and underground storage projects, or detention basins where open space is available
 - Evaluation and Design Engineering of Projects over life of SWU (\$4 million)
- Costs are estimated for the Stormwater Plan
 - Total estimated cost (in 2015 dollars) is **\$40 million**



- Multiple funding scenarios are evaluated (by Speer Financial)
 - Timing/scheduling of projects is developed
 - Municipal Bonds are used to fund projects
 - SWU fees used to pay back bonds
 - Multiple bonding scenarios are considered
- Total program cost is determined
 - Including cost of projects and debt service



 Next, the impervious area of an <u>average residential</u> property in each zoning class (R-1, R-2, etc) is determined



Typical Residential Lot

Pervious Area

Impervious Area

- R-3 Zoning has smallest average impervious area, and is defined as an *Equivalent Residential Unit (ERU)*
 - 1 ERU = approximately 2,800 square feet



- The ERU is determined for each Zoning Classification
 - **R-1** residential = **1.4** ERU (1.4x the average impervious area)
 - **R-2** residential = **1.1** ERU (1.1x the average impervious area)
 - **R-3** residential = **1** ERU (1x the average impervious area)
 - **R-4** residential = **3** ERU (3x the average impervious area)
 - **R-5** residential = **8** ERU (8x the average impervious area)
 - Non-residential = **4** ERU (4x the average impervious area)
- Before a SWU fee would be implemented, the actual impervious area for every parcel would be determined so that fees are not based on the average



- Every parcel in the City is given an ERU value
- The total ERU for the City is added up
 - Park Ridge has approximately 18,000 ERU
- In simple terms, the total cost of the stormwater program is divided by the number of ERUs to establish the cost per ERU

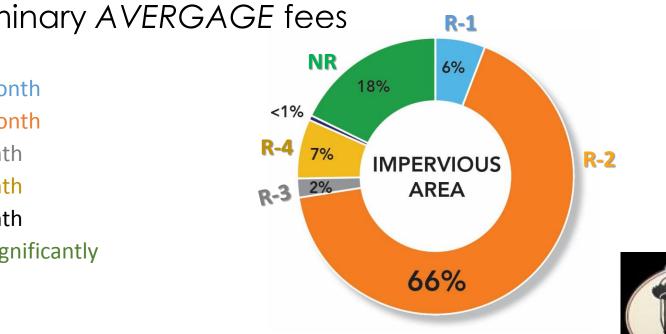
1 ERU Cost = Total Program Cost / Total ERUs / # of Years

The fee for each parcel will be based on its individual impervious area



What will it cost?

- The SWU Feasibility study is in the preliminary stage
 - Preliminary fees are based on *average* impervious area, not actual
 - Any changes to the list of projects or assumed costs for the program would affect the calculated fees
- The preliminary rate for 1 ERU is \$11 per month





____ Stormwater Utility Feasibility Study

- Therefore, the preliminary AVERGAGE fees by zoning type are:
 - R-1 = 1.4 ERU = \$15 per month
 - R-2 = 1.1 ERU = \$12 per month
 - R-3 = 1 ERU = \$11 per month
 - R-4 = 3 ERU = \$33 per month
 - R-5 = 8 ERU = \$88 per month
 - Non-residential will vary significantly

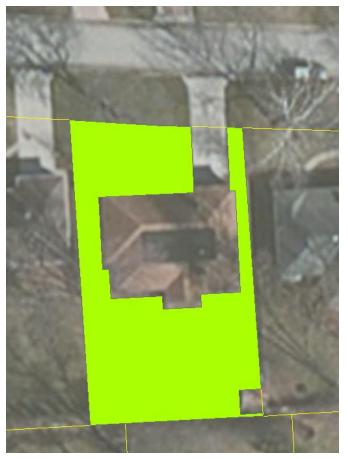
Other SWU Examples:

| Community | Impervious Area (ft ²) of 1 ERU | Monthly Fee |
|-----------------------|------------------------------------------------|-------------|
| Park Ridge (proposed) | 2,800 | \$11 |
| Rolling Meadows | 3,604 | \$3.90 |
| Highland Park | 2,765 | \$7.00 |
| Downers Grove | 3,300 | \$9.72 |
| Winnetka | 3,400 | \$21.80 |



Stormwater Utility Feasibility Study

• Example #1 – R-1 Residential (1900 Block of Fenton)



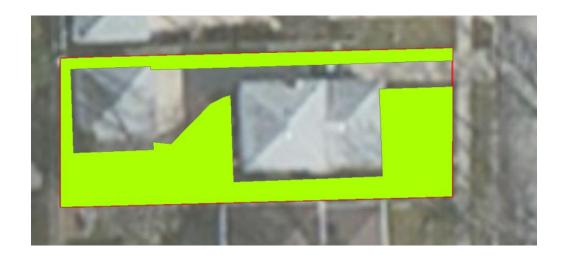
- Total Parcel Area = 11,800 ft²
- Pervious Area = 7,886 ft²
- Impervious Area = 3,914 ft²

1 ERU = 2,800 ft² Example ERU = 3,914 / 2,800 = 1.4 ERU

Preliminary SWU Fee = 1.4 x \$11 = \$15.40/month



• Example #1 – R-2 Residential (300 Block N. Delphia)



- Total Parcel Area = 6,620 ft²
- Pervious Area = 3,250 ft²
- Impervious Area = 3,370 ft²

1 ERU = 2,800 ft² Example ERU = 3,370 / 2,800 = 1.2 ERU

Preliminary SWU Fee = 1.2 x \$11 = \$13.20/month



• Example #2 – Non-residential – Church Property



1 ERU = 2,800 ft² Example ERU = 12,877 / 2,800 = 4.6 ERU

Preliminary SWU Fee = 4.6 x \$11 = \$50.60/month

Total Parcel Area = $28,000 \text{ ft}^2$

Impervious Area = 12,877 ft²

Pervious Area = $15,123 \text{ ft}^2$



• Example #2 – Non-residential – School Property



- Total Parcel Area = $438,555 \text{ ft}^2$
- Pervious Area = 326,106 ft²
- Impervious Area = 112,449 ft²

1 ERU = 2,800 ft² Example ERU = 112,449 / 2,800 = 40.2 ERU Preliminary SWU Fee = 40.2 x \$11 = \$442/month



Stormwater Utility Feasibility Study

• Example #2 – Non-residential – Commercial Property



- Total Parcel Area = $206,820 \text{ ft}^2$
- Pervious Area = 34,598 ft²
- Impervious Area = 172,222 ft²

1 ERU = 2,800 ft² Example ERU = 172,222 / 2,800 = 61.5 ERU Preliminary SWU Fee = 61.5 x \$11 = \$676/month



• Example #2 – Non-residential – Commercial Property



- Total Parcel Area = 29,069 ft²
- Pervious Area = 7,361 ft²
- Impervious Area = 21,708 ft²

1 ERU = 2,800 ft² Example ERU = 21,708 / 2,800 = 7.8 ERU Preliminary SWU Fee = 7.8 x \$11 = \$86/month



Stormwater Utility Feasibility Study

Credits and Incentives

- Most SWU programs include provisions for credits and incentives
 - *Incentive* = one time rebate
 - **Credit** = permanent (or semi-permanent) reduction of SWU fee



Credits and Incentives - Examples

Incentives

- Typically used to encourage residents and businesses to construct small projects, such as:
 - Rain Barrels
 - Rain Gardens
 - Permeable Pavement
- Typically set up as one-time rebate to avoid issues of long-term maintenance and inspection requirements
- Common Incentive Amounts (per property):



Rain Barrels - \$25



Rain Gardens - \$200-300



Permeable Paving - \$200-300 Stormwater Utility Feasibility Study



Credits and Incentives - Examples

Credits

- Used to encourage large property owners to construct stormwater projects, such as:
 - Stormwater Detention Basins/Vaults
 - Infiltration Basins





Detention Basin

- Detention Vault
- Typically set up as recurring fee reduction for a fixed period of time.
 - Property owner would need to regularly reapply for credit and prove that the stormwater project is still functioning
 - Minimizes burden on City for inspections
- Some SWU programs will credit a portion of construction cost; some only the monthly SWU fee.
- Details of credit program to be developed for final presentation and report.





Park Ridge SWU Summary

- The SWU fee would apply to all properties and be based on the amount of impervious area
- A preliminary Stormwater Master Plan has been outlined and estimated to cost approximately \$40 million
- An "Equivalent Residential Unit" (ERU) is equal to 2,800 ft2 impervious area
- Each property will be assigned an ERU value
- Fees will be approximately \$11 per ERU
- A credit/incentive program will be developed to offset fees



Next Steps

- Develop full database of impervious areas per parcel
- Prepare specific recommendations for credit program
- Review City Ordinances and develop new language as needed to implement SWU
- Establish preferred billing mechanism
- Prepare final report and presentation



Questions?



Stormwater Utility Feasibility Study