

Meeting No. 5

Policy Discussions

- **Variability in Services**
- **Introduction to Credit Options**

Phase II

Stormwater User Fee Feasibility Study

August 7, 2019



Agenda

Welcome and Introductions

Policy discussion:

- Methods to address variability in impervious area and stormwater related service across the Township (service zones)
- Introduction to credit policy options

Discussion/Conclusions

Methods to Address
Variability in Impervious Area
and Stormwater-Related
Service Across the Township
(Service Zones)



Feedback – July 17

- It is important that the cost model is capable of assigning costs by the infrastructure served.
 - Service areas in Ferguson have a historical expense that can be aligned to a rate methodology, and the rate can be established on this methodology.
- The routine 'overhead' costs should be shared across service areas.
- It was noted that property owners in the service area with lower LOS based on the stormwater infrastructure do utilize the Township stormwater system found in the higher-level service area.
 - It was noted that consideration should be given to an allocation of a minimal portion of the high-service area costs to all property owners.
 - A 10 percent share was suggested.
- It was suggested that the Township minimize complexity and evaluate effectiveness after a few years of operation to see if the concepts of increased equity hold.

Variability in IA - Approach to User Fee Development

Recognizing Service variability within Township driven by infrastructure:

- Complex systems of pipes, basins, inlets, swales, streams
- Base-level systems of open channels and ditches and cross-drainage pipe under roadways
- Interconnections to other systems (PennDOT roadways)
- Other MS4 permittees within Township

By Rate Structure

Two-Element Rate Structure

- Baseline Services: Serves all properties in Township
 - Base cost to address administration and other services
- Infrastructure management costs (operation, maintenance and capital costs):
 - by geographic areas;
 - type of infrastructure; or
 - other parameter

By Infrastructure Complexity

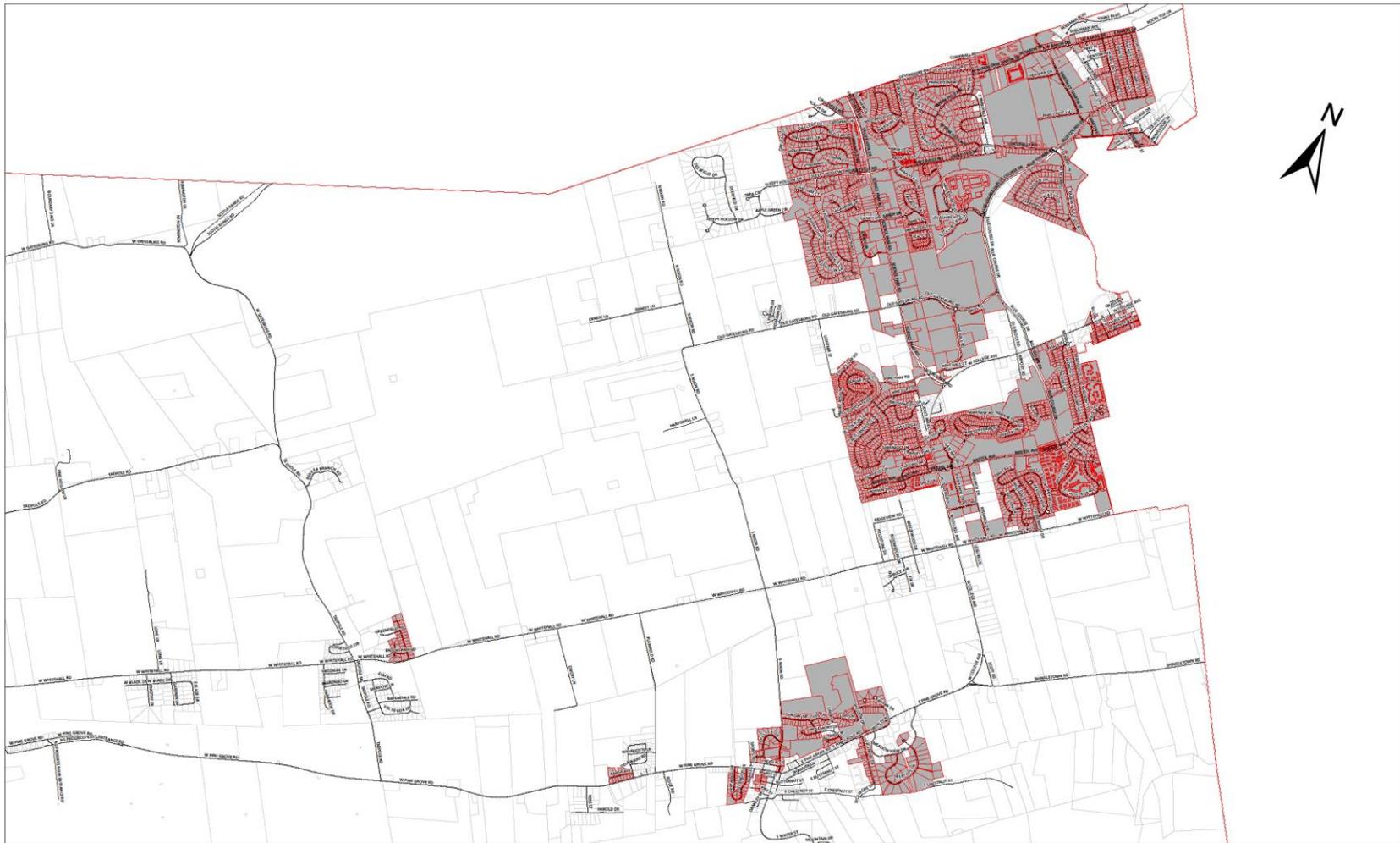
Service Area 1 – higher frequency and level of service

- Any lot that fronts on a Township street segment that has 50% or more of that street segment with a parallel storm pipe; or
- Any lot that fronts on a Township street segment that has 50% or more of a street segment with curb on one or both sides.

Service Area 2 – lower frequency and level of service

- Any lot that fronts on a Township street segment that is not in the Service Area 1; or
- Any lot that fronts on a street owned by another MS4 permittee, or a private street; or
- Any lot that is covered by a separate MS4 Permit with DEP.

Each service area has about 24,000,000 square feet of impervious area.



Cost Alignment in Service Areas

ALL:

- **Program management, system planning, overhead, and Township MS4 compliance** (including capital required to comply with the Township's Pollution Reduction Plan)

Service Area 1: High Level

- **Operations and maintenance for underground and above ground drainage infrastructure and capital improvements**
 - pipe lining,
 - new equipment purchases,
 - system inventory update
 - drainage system assessment
 - This service area also has costs assigned for a new foreman and three-person crew added over the five-year period.

Service Area 2: Low Level

- **Operations and maintenance of roadway ditch and cross-pipe maintenance.**
- **No capital projects** were included in the first five-year program plan.

Discussion

- **Is it appropriate to set a base cost per account? (e.g., Adm, Overhead, Public Ed)**
- **What approach will make sense to the public?**
 - Variable rates – density of development + impervious area
 - Service Areas based on type of infrastructure
 - Service Areas based on density of population
 - Service Areas based on geographic boundary

Discussion Questions

- **Should the MS4 program and MS4 capital costs be assigned to all properties?**
- **Should program administration costs be assigned to all properties?**
- **Property owners in Service Area 2 benefit from the investment in and maintenance of the drainage system in Service Area 1. Should some portion of the costs of operation and maintenance for the Service Area 1 system be assigned to the Service Area 2 cost allocation?**
- **Should capital projects for new treatment facilities/quantity controls be a shared cost for Service Area 1 or should these costs be assigned/recovered only to those properties directly served? This could be done through the assessment process, rather than through the rate structure.**

Cost Center	Fixed Cost – All Pay	Planning and MS4 – All Pay	Service Area 1	Service Area 2	Roadway Projects w/drainage by TIF
Administration					
Township Overhead					
MS4 Permit – Ops					
MS4 Permit – CIP					
Planning Studies					
Regulatory Enforcement					
Inspection – Ditches/Cross Pipes					
Inspection – Pipes, Inlets, Basins, GI, Channels					
Pipe Relining					
System Maintenance					
CIP					

Credit Policy Introduction



Discussion Questions On Credit Policy Development

- **What is a credit?**
 - A credit is a reduction in total utility fee charged a specific owner of a parcel, based on policy established by the Board of Supervisors
- **Are credits mandatory?**
 - No, in PA credits are a discretionary action by the Township
- **What are the financial implications to the Utility of a credit program?**
 - Personnel time to administer (approve, review, enforce)
 - Impacts on the rate structure – reduces individual revenue from a parcel; not necessarily reducing program costs
- **Who should be eligible?**
 - Depends on the type of credit adopted
 - Credits are earned; not awarded

Discussion Questions on Credit Policy Development

- **How and when will credits be available?**
 - Once a year billing – by what date should credits be applied for by property owner?
 - If an owner misses a date for application, should the Township grant a credit between billing periods?
- **If a facility treats runoff from offsite impervious area should the credit be calculated on total IA served?**
 - If yes, how to handle the credit should offsite property have treatment installed?
- **Is there a limit to the amount of credit that can be earned?**
 - Most credit programs are adopted with a limit to the value of the credit.
 - Most credit program are aligned to the services provided by the local jurisdiction.
- **How is the credit for a structural facility calculated?**
 - Facility only handles ½ of site impervious area runoff.
 - Facility treats offsite impervious area runoff.

Factors Considered - How Credits are Applied

- Credit for a BMP built voluntarily that exceeds Township SWM standards.
- BMP built according to current Township SWM standards – lesser value.
- Ratio of impervious to pervious surface may result in less site runoff
- Participation in watershed stewardship activities.
- Public education institutions that provide water quality education to students – high school science curriculum module.
- Residential rain barrel programs.
- Impervious area reduction – removal of IA.
- Implementation of nutrient management plans.

Attributes

- Voluntary or Required by Development Standards
- Structural or Nonstructural
- Reduces Township Costs or Value-driven such Public Education
- Residential or Non-residential
- Apply or Automatically Granted
- MS4 Permittee such as Industrial NPDES Discharges
- Enforcement
 - By Township
 - Self-certification of functionality

Purpose of Credits

- Acknowledges that on-site GSI can reduce the long-term cost of public stormwater services.
- A credit is not a reimbursement program – it is a way to acknowledge the future public benefits of operating a facility, not to reimburse owners for past investments.





Credit Systems

- Credit systems can be very simple – reactively recognize investments made by property owners.
- To more complicated – designed to incentivize voluntary installation of GSI or enhancements made to an already required GSI.
- Regardless, there must be a verifiable benefit. A stormwater utility is a fee for service.

Who should is eligible for credit? Allentown PA

The City will provide a stormwater utility fee credit for:

1. any stormwater management facility,
2. whether built voluntarily or as a condition-of-development,
3. installed on or after April 19, 2007 for quality purposes (the adoption date of “The City of Allentown’s (Act 167) Stormwater Management Ordinance,” Article 1387 of the City Code), and/or
4. **installed to control volume in accordance with Article 1387 or it predecessor requirements.**

How much credit should be received?

Facility Type and Purpose	Base Credit Amount	Voluntary Facility Bonus	Total Possible Credit
Facilities Achieving 10% or More Sediment Reduction from Existing Conditions (Assumes That These Facilities Also Control Volume)			
10% to <25%	20%	20%	40%
25% to <75%	25%		45%
75%+	30%+		50%
All Other Facilities Built in Accordance with Article 1387 of the City Code, Regardless of Whether it is for Quality, Quantity, or Both			
All	10%	Not Applicable	10%

Simple - Chesapeake, Virginia

- 20% credit for water quality facility.
- 20% credit for water quantity facility.
- Calculations must be submitted by a professional engineer.

Very Complicated – Charlottesville, Virginia

Installation Date	Condition of Development or Voluntary	Percent Credit
Pre-July 1, 2009	Either	20%
Post-July 1, 2009 & Pre-July 1, 2014	Condition of Development	30%
Post-July 1, 2014	Condition of Development	40%
Post-July 1, 2009	Voluntary	40% to 100% * Depending on the Level of Pollutant Removal

*Subject to a max total site credit of the greater of 90% or 100% minus 1 billing unit.

Credit Impacts

- The public benefit is long-term, the short-term program needs remain the same.
- As a result, credits shift the burden of the short-term program to those who do not have credits.
- The impact of a credit on a specific property will depend on the amount of impervious cover.

Incentives – Not Credits but Partnerships

- Similar to a grant program.
- Used to assist owners to install or engage in practices that improve water quality.
- Two potential approaches:
 - Target Driven. Allows staff to approach targets of opportunity that will help meet water quality and quantity control goals.
 - Engagement Driven. Gives property owners a way to engage, with efficiency and accountability being only secondary goals.
- What is the right approach for the Township?

Discussion Questions on Credit Policy Development

- **What activities should be eligible for a credit?**
 - Onsite treatment and/or flow reduction attributes
 - Public engagement (e.g., volunteers for stream cleanup; public education curriculum)
- **How much credit should be awarded for each activity?**
 - Facility classifications: built after 2003; before 2003; before any stormwater standards adopted
 - Non-structural: activities support the goals and services provided by the Township
- **Should credits expire – require reapplication?**
 - As facility standards change in the future, should existing credits be renewed/reduced/sustained?
 - As the program of services change, should credits be adjusted?
- **Should maintenance agreements be required for all structural facility credits?**
 - How should maintenance be verified
 - How frequently should maintenance be verified