

Implementing a Stormwater Utility July 24, 2014



#### Outline

- Review of the Stormwater Utility Program
  - Key decisions
  - How it will work
- Follow-Up from Engagement and Case Studies
- Incentive Program Update
- Next Steps and Communications
- Overview of Changes to the Bylaw
- Future Focus Areas
- Recommendations



#### **Team Stormwater**

**Collaborative Working Group** 

- Engineering and Public Works
  - Underground Utilities and Environmental Sustainability
- Sustainable Planning and Community Development
  - Community Planning, Development Permits, Permits and Inspection
- Finance
- Citizen Engagement and Strategic Planning

With Guidance from:

• Kitchener, Waterloo, Edmonton, Portland, Seattle



#### **Our Stormwater System**



- Over 15,000 property connection pipes
- 5,700 catch basins
- 253 km of stormwater mains (Victoria-Campbell River)
- 3 stormwater rehabilitation units
- 73 stormwater outlets



#### **Rainwater Management**



City projects include:

- Fisherman's Wharf Rain Garden
- Burnside Gorge Community Centre green roof, permeable paving
- Spirit Square Rain Garden at City Hall
- Trent Street Rain Garden



## **Stormwater Utility Objectives**

- User pay: link impacts with costs
  - Property Value basis  $\rightarrow$  Property Attribute basis
- All properties included
- Improve stormwater quality and reduce flow into system and onto beaches.
- Educate and change the way people view and treat rainwater that lands on their property

– From problem  $\rightarrow$  to opportunity/resource

- Development of Stormwater Reserve Fund
- Budget remains the same: old vs new system



#### **Breakdown of Properties**



Total of 13,553 properties



## **Stormwater Utility Fee Factors**

- 1. Impermeable Surfaces Factor
  - For Tier A, building footprint + 3% representing all other hard areas
  - For Tier B, C & D, actual measurement from plans and photos
- 2. Frontage Factor
  - Cost per meter of frontage –Downtown, Arterial, Collector, Local
  - For cleaning of streets and sidewalks, to keep pollutants out of system
- 3. Intensity Factor
  - For impact of property type on Stormwater System. Based on BCA codes
- 4. Codes of Practice Factor
  - Only for properties with 10+ parking spaces or specific industry



# What this change means for Single Family Residential

**Approximate Fee Change for Single Family Residential** 



- 10,385 properties
- Average fee is \$147 (including Property Tax portion)



# What this means for Apartments and Condos

**Approximate Fee Change for Apartments and Condos** 



- 1,428 properties
- Note: Fees shown represent groups of 5 or more units.



#### What this means for Civic/Institutional

#### **Approximate Fee Change for Civic/Institutional**



• 287 properties



#### What this means for Commercial/Industrial

**Approximate Fee Change for Commercial/Industrial** 



- 1,453 properties
- Note: Many of these properties include multiple units.



#### **Impact on City Budget**

- This change is revenue neutral. The impact on the City's budget is the same as it would have been with funding coming from Property Taxes.
- The redistribution is based on property attributes rather than on property values.



### **Special Consideration**

- Tax Exempt Properties
  - Permissive Tax Exempt: 3 year phase in to full fees (2016 2018)
  - Balance of Tax Exempt properties will not have a phase in

#### Properties with No Connection

- Will be exempted from the Impermeable Surface Factor amount, but will be assessed for other portions:
  - Must have their own discharge straight to ocean; or
  - Must have an approved Rock Pit on their property instead of a SW connection
  - Have no main on their frontage
- A property with a stormwater lateral connected into a sewer main is considered to have a valid connection (grandfathered)



## **Special Consideration: SD 61**

**Ownership**: Most schools located on many individual lots with different ownership: SD #61, City of Victoria, and In-trust

• Are considered to be leased to SD #61, City does not maintain them

#### **Changes to Billing:**

- Impermeable Surfaces Factor:
  - Including area for buildings, parking lots & drop-off areas
  - Excluding "greater community use" areas (playgrounds, courts, etc.)
- Only being billed for one Intensity Factor per school, not per property **Factors remaining unchanged:** Frontage Factor, Codes of Practice Factor

#### Other Considerations:

- Given 3 year phase-in period
- Eligible for annual 10% Education Credit, in addition to 40% credit if managing rainwater sustainably.
- Included in case studies, will be invited to workshops



### **Follow-up from Engagement**









- Case Studies
  - Explore return on investment
  - Involve associations to look at a variety of property types
- Consider a rebate program
- Credit program: make it flexible and easy to use
- City to provide support to help property owners undertake credit program
- Increase communication and education
- Offer more time so property owners can plan for change



#### **Case Study Report**

- KWL studied 20 properties across all Tiers
- Very useful helped to revise Credit program
  - Emphasis on improving stormwater quality, less on flow reduction
  - Rainwater management practices that reduce flow into system will not help peak flows in severe storms
  - Proposed changes to the Credit program one single method could have larger impact and be less costly than two smaller ones
  - Supported idea of rebates
  - Tie incentives to the amount of impermeable area being managed
  - Secondary benefits are significant (education, reduced use of potable water related water & sewer fees, increased property values)



#### Single Family Property – Example of Case Study



#### **Incentive Program**



#### Goals

- Rewards sustainable rainwater management : storage & reuse, mimicking the natural water cycle
- Improve quality of stormwater and reduce the rate of flow to the stormwater system
- Influence sustainable choices for those who are planning to undertake work on their property

#### **Bottom line**

- Not a high ROI. Projects are expensive
- Where a property owner is already planning to work, may help them choose a "green" option



#### **Incentive Program**

**Credits**: Ongoing reduction off the stormwater utility fee, must be renewed every five years (for all property types)

**Rebates**: One-time, upfront payment to help reduce installation costs (only for single family homes) Note: Will return with final rebate details this winter.







#### Tier B, C & D Properties – Larger credit

- Fees and credits are more significant in value and impact on stormwater system is also more significant, when compared to single-family properties
- Credits range from 2.5%-40%, plus educational credit of 5-10% if applicable, maximum credit of 50%







### Credits – Tier B, C, and D

Method	Minimum Roof Area Treated (%)	Minimum Driveway Area Treated (%)	Other factors considered	Cost Estimates*	Ongoing Credit	Credit Amount (based on a sample utility bill of \$1,200)
Cistern	25%- 90%	N/A	(hand use/ unpermitted, plumbed/used for irrigation, plumbed indoor use)	\$6,000 Avg per unit: Above ground \$1,030/m <sup>3</sup> Below ground \$1,920/m <sup>3</sup>	2.5% - 25%	\$30- \$300
Rain Garden Bioswale Infiltration Chamber	25%- 90%	0-90%	N/A	\$20,000 Avg per unit: Rain Garden \$215/m <sup>2</sup> Bioswale \$320/m <sup>2</sup> Infil. Chamber \$3255/m <sup>3</sup>	5% - 40%	\$60-\$480
Permeable Paving	0-90%	25% - 90%	(also considers infiltration pipe or no pipe, etc)	\$35,000 Avg per unit: \$300/m <sup>2</sup>	5% - 40%	\$60-\$480
Green Roof	25-90%	N/A	Extensive or intensive	\$60,000 Avg per unit: \$590/m <sup>2</sup>	5% - 30%	\$60-\$360
Education	N/A	N/A	Educate Employees/ Public		5% - 10%	\$60-\$120

\* Estimates are variable, as property size and amount of impermeable areas vary greatly for these tiers. Average figures will be lower for larger installations.



#### **Incentive Details**

Tier A- Single Family Properties – Rebate + smaller credit

- Value of original credit program was small (average maximum \$59 annually) and would likely not encourage participation
- One time rebate would be more significant (estimated \$375 to \$1,500 and smaller rebate for rain barrels)
- Rebates would be capped annually. Final rebate details will be brought to Council this winter.
- Maximum credit of 10%



### **Credit & Draft Rebates – Tier A**

Method	Minimum Size	Minimum Roof Area Treated (m2)	Average Cost for methods – based on case studies (actual costs likely less if only treating a portion of area)	Ongoing Credit	Credit Amount (based on average Single Family SW Utility Bill: \$147)	Draft Minimum Rebate(under development)
Rain Barrel	400L	N/A	\$150	N/A	N/A	\$25
Cistern	1,200 L	25	\$2,000	10%	\$14.70	\$375
Infiltration Chamber	*	25	\$9,000	10%	\$14.70	\$625
Rain Garden	*	25	\$3,000	10%	\$14.70	\$625
Bioswale	*	25	\$3,000	10%	\$14.70	\$625
Permeable Paving – no infiltration trench/piping	10 m2	N/A		10%	\$14.70	\$200
Permeable Paving – infiltration trench/piping	*	25	\$8,000	10%	\$14.70	\$750

\* Minimum size will be dictated by the Roof Area Treated



## **Streamlining Permit Process**

- Several rainwater management methods would likely require Development Permits or Heritage Alteration Permits, and be subject to zoning regulations.
- Potential for poorly designed rainwater management facilities.
- Report follows with recommendations regarding exemptions and zoning changes to streamline permit process where appropriate.



#### **Next Steps**

Pre Launch:

Communicate timelines to stakeholders

Industry Education

Celebrate Rainwater Management in Victoria

#### Phase 1:

Launch Rainwater Management Incentive Program and Provide SW Property Assessment Notice

> Rainwater Management Workshops

#### Phase 2: 2016 Property Taxes adjusted to reflect SW utility

Introduce Rainwater Management Standards for New Development Phase 3:

First Stormwater Utility Bills Issued

City continues to develop own set of rainwater management guidelines for City properties, buildings, roads and right s of way



### **Communications: Pre Launch**

- Keep momentum going
- Update stakeholders on what to expect in 2015/2016.
- Continue to celebrate City and private properties that are managing rainwater sustainably ie. VicMap Rain Garden Gnome layer, etc.
- Education program for rainwater management industry.







## **Communications: Launch**

- In March 2015 all property owners will receive:
  - A Stormwater Property Assessment Notice
    - property characteristics and budgeting information for 2016
  - Information about Rainwater Management Incentives
  - Educational opportunities to learn about rainwater management and how to apply for incentives.









#### **Communications: 2016**

- Spring: At tax time, property owners will be reminded about the change in how stormwater services are billed.
- Fall: First stormwater utility bills will be issued, along with additional information about the stormwater system and the incentive program.





#### **Bylaw Updates**

- Stormwater Utility is included in Sewer Bylaw, and is being updated to include these and other changes.
  - Rebates not included in bylaw.
- Changes to sewer sections include:
  - Inspection of lateral for major building projects
  - Possible rehabilitation of existing laterals where applicable
  - Exemptions of sewer charges for water used for irrigation (on select properties)
  - Allowance for sewer overflows from private systems to City system
  - Refunds for utility customers for billing errors



#### **Future Focus Areas - Stormwater**

- Explore potential for changes related to new development, to incorporate rainwater management principles.
- Develop rainwater management design guidelines for incorporation into City projects on roads, rights of ways, City property and buildings.







### **Motions for GPC**

- 1. That Council adopt the Stormwater Utility and model as outlined in this report.
- 2. That Council adopt the revised Sanitary Sewer and Stormwater Utilities Bylaw (Appendix A).
- 3. That Council instructs staff to amend the City of Victoria Reserve Fund Policy to establish a Stormwater Utility Reserve Fund. The purpose of this reserve is to provide funding for stormwater equipment and infrastructure.
- 4. That Council amend the 2014-2018 Financial Plan Bylaw for the 2016 year, to reduce the property value taxes line item by \$5,481,982 and add a stormwater utility fee line item in the same amount.



#### **Questions?**



