

Stormwater Funding Options
Council Meeting Presentation
February 12, 2013

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Asset Management Department**

Background

- **Series of Council Workshops held in 2011/2012 regarding Stormwater Mgmt Strategies**
- **Special General Meeting held that dealt with Stormwater Funding - November 8th 2012**
- **Recommendations to Council Meeting of December 17th and deferred to January in order for staff to meet with the West Thornhill Stormwater Flood Remediation Liaison Committee members.**

Direction at December Council

- **Report and recommendations on a flood control strategy deferred to January meeting in order to consult further with West Thornhill Stormwater Flood Remediation Liaison Committee members. Staff held those discussions.**
- **Meetings and ongoing correspondence have helped clarify technical aspects of the project, and the rationale for funding options in the flood control funding strategy.**
- **Feedback: strong comments on the funding options - West Thornhill members prefer to have local option removed. Staff believe there is a need for further consultation City-wide.**

Objectives – Feb 12, 2013

- **To advance decisions related to managing storm water in order to continue the implementation without delays in Thornhill and City-wide.**
- **The following directions to staff are needed at this meeting:**
 - Service Level
 - Implementation timeframe
 - Funding Options (# and type) for inclusion at public consultation
- **Earlier presentation material is summarized to assist in decision making process.**

Storm Water Projects Undertaken by City

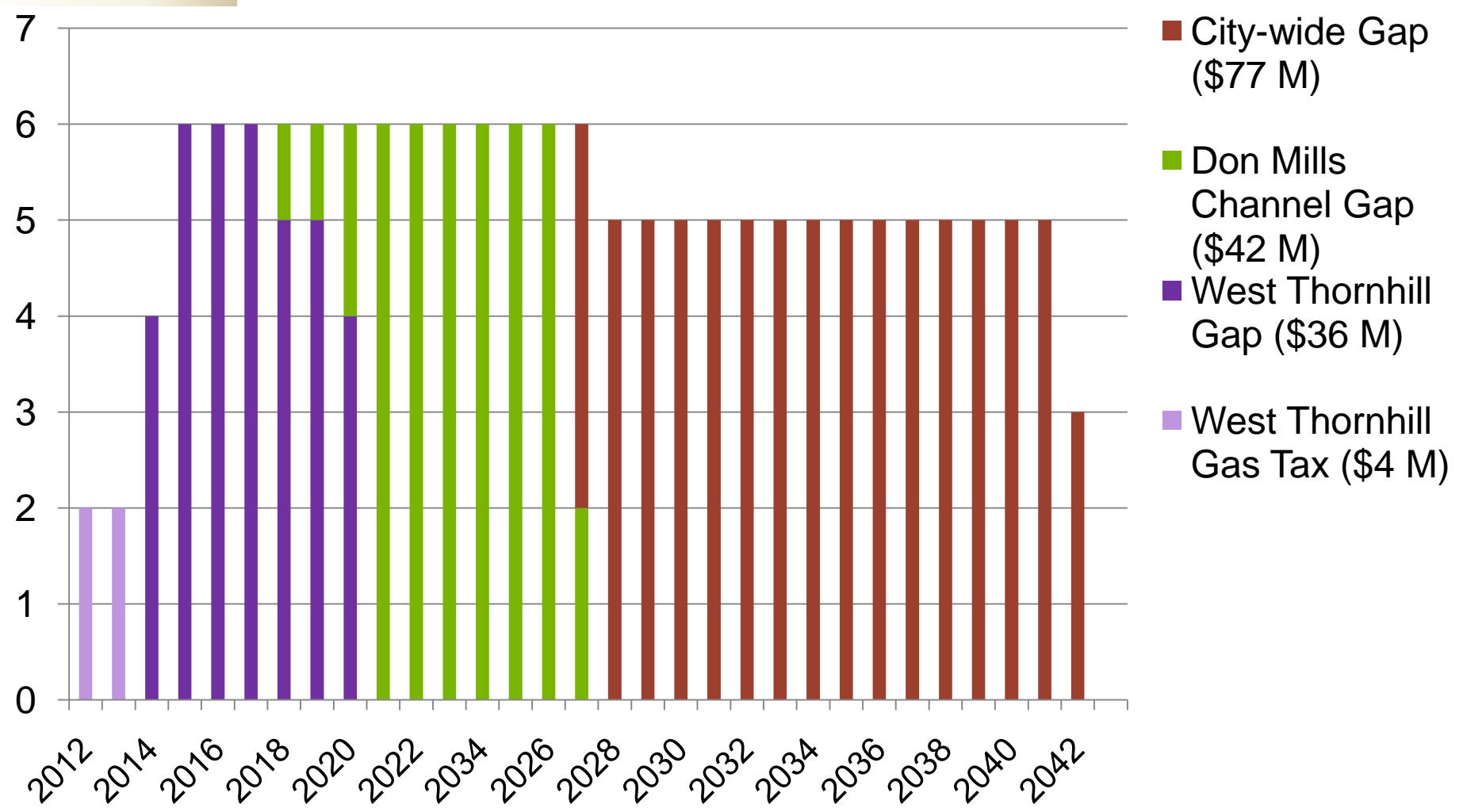
- **Completed projects include: Over and above EA's**
 - ✓ Wastewater systems upgrades and modifications on Clarke Ave., Inverlochy Blvd;
 - ✓ wastewater flow reduction in West Thornhill: downspout disconnection, manhole lid sealing; (recommendations for Citywide implementation);
 - ✓ sewer relining in West Thornhill; private lateral relining ongoing;
 - ✓ Stormwater risk reduction measures have included culvert grate modification (to prevent clogging), Babcombe Ave./CN culvert inlet upgrades;
 - ✓ Planning and development considerations and changes to standards under development;
 - ✓ Other projects in planning stages – e.g. Markham Village area.

Storm Water Projects Undertaken by City

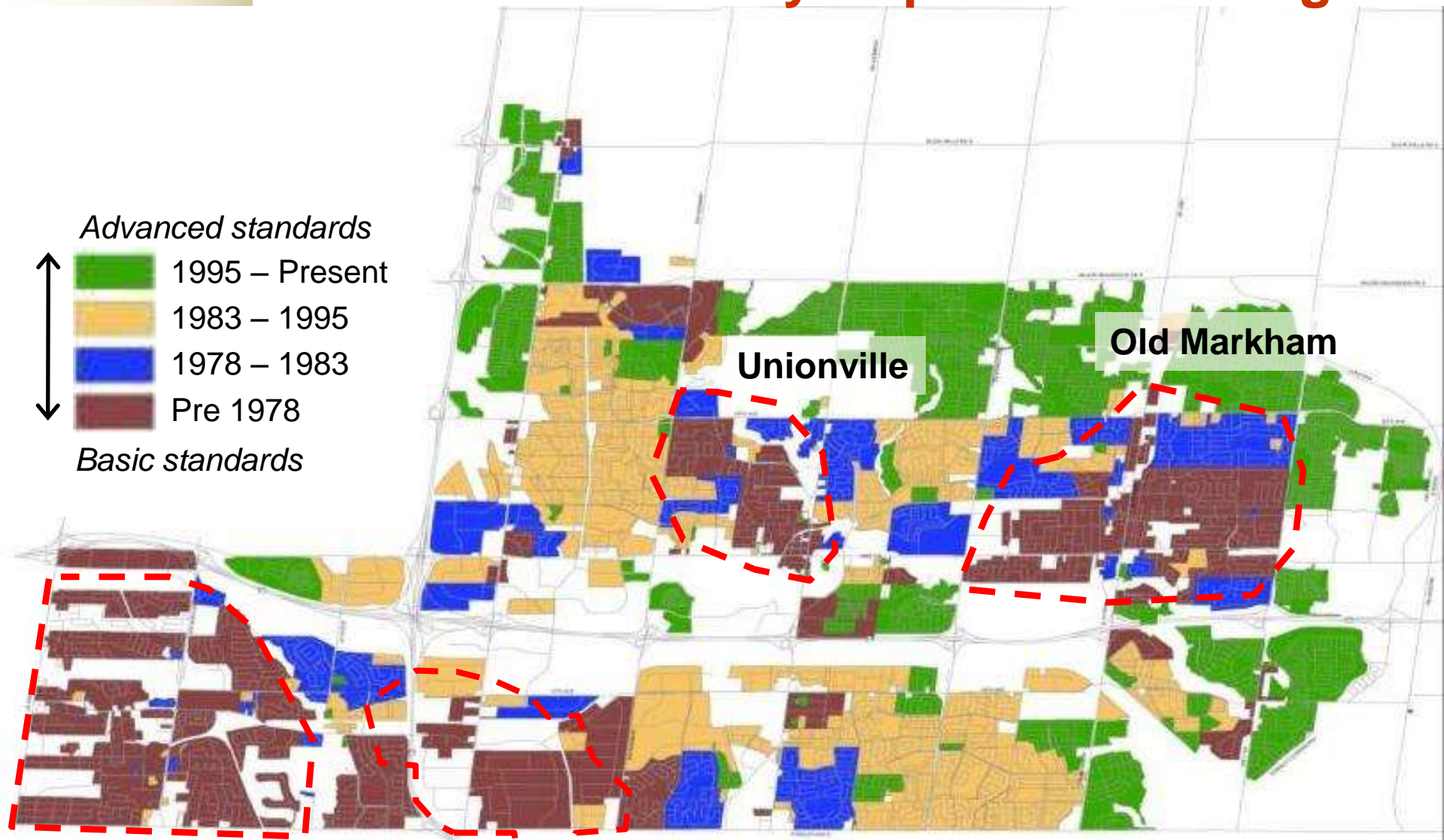
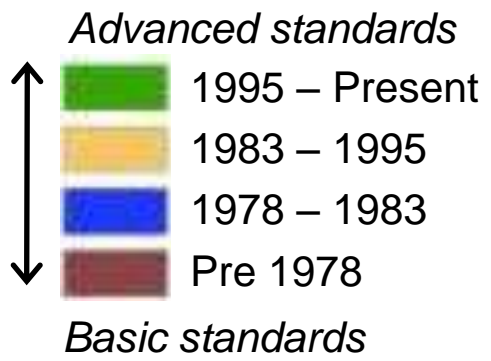
- **West Thornhill stormwater implementation:**
 - ✓ MCEA hydraulic model updated and refined to support preliminary and detailed design (extensive field investigations, integration with Glynnwood MCEA model, evaluation of structural condition/defects).
 - ✓ Value Engineering completed in 2012 to confirm technical direction of MCLA preferred alternative and to identify cost-savings.
 - ✓ Evaluation of sewer alignments to avoid disturbance through private lots, and minimize cost will meeting 100 year level of service.
 - ✓ Advancing downspout disconnection working with TRCA through Sustainable Neighbourhood Action Plan (SNAP), and in coordination with wastewater inflow/infiltration reduction activities.
 - ✓ Preliminary design for first stage of Phase 1 underway (2013 tendering subject to permit(s) approvals)

Example Implementation Strategy: \$155M flood control over 30 years (2012 \$'s)

Cost (\$M)



Pre-1978 areas may require local charges



West Thornhill

Don Mills Channel

Unionville

Old Markham

Areas are approximate

Funding Options For Consultation Residential Example

Option	Distribution of Fees		Estimated Fees per Year (average)			
			City-wide Properties		Local West Thornhill Properties	
	City-wide	Local	No Gas Tax Funding	With Gas Tax Offset	No Gas Tax Funding	With Gas Tax Offset
City-wide Fee (a)	100 %	0 %	\$48	\$36	\$48	\$36
Blended fee (c)	25 %	75 %	\$12	\$9	\$260	\$200
Local Charge (b)	0 %	100 %	\$0	\$0	\$330	\$250

Funding Options For Consultation Commercial Example

Option	Distribution of Fees		Estimated Fees per Year (average)			
			City-wide Properties		Local Don Mills Channel Properties	
	City-wide	Local	No Gas Tax Funding	With Gas Tax Offset	No Gas Tax Funding	With Gas Tax Offset
City-wide Fee (a)	100 %	0 %	\$560	\$420	\$560 <i>(maximum \$560/yr)</i>	\$420 <i>(maximum \$420/yr)</i>
Blended fee (c)	25 %	75 %	\$140	\$105	\$5710 <i>(maximum \$89,300/yr)</i>	\$4230 <i>(maximum \$67,600/yr)</i>
Local Charge (b)	0 %	100 %	\$0	\$0	\$7430 <i>(maximum \$119,000/yr)</i>	\$5500 <i>(maximum \$87,900/yr)</i>

- 30 year financing of local fees. 30 year strategy for city-wide fees. Maximum local approximately 16 times average in Don Mills Channel Area. \$2M/yr Gas Tax/yr.



Summary

- **Consultation on funding options with City wide residents required due to **the size, scope and impact of the plan -- \$155 million**. Need feedback from residents city wide.**
- **In order to accelerate our implementation in Thornhill need the following decisions made by June 2013:**
 - Funding Source for City wide program (by June 2013)
 - Service level – (approval requested Feb 12)
 - Implementation timeframe – (approval requested Feb 12)

Resolutions from November 8, 2012 Special General Ctte.

Summary of Key Recommendations

- That the City's flood control strategy consider a **100-year level** subject to technical feasibility and approvals as part of future Class Environmental Assessments (EA)
- That the City's flood control strategy consider a **5 year level of service** target for Don Mills Channel drainage system subject to technical feasibility and approval as part of a future Class EA; and,
- That staff **consult the public** on the following City wide flood control funding sources:
 - a) 100% City-wide fees,**
 - b) 100% Local Charges, and**
 - c) 75% Local Charges and 25% City-wide fee**

Recommendations Continued

- That the City **adopt a 30 year implementation** timeframe for its flood control strategy; and,
- That the flood control strategy implement City-wide flood risk reduction projects, **prioritized on the basis of identified risk and cost-effectiveness of solutions**; and,
- That the flood control strategy be updated on a **5 year cycle** considering projects identified in completed technical studies and updated budget requirements; and,
- That **Canada Gas Tax Funding** be considered to offset the cost of the above options; and
- That staff **report back following public consultation and recommend a funding option for the flood control strategy**

Next Steps

- **Public consultation on the City's proposed Flood Control Strategy and Funding Source options (City-wide and local aspects) – Mar. 26 to Apr. 11, 2013**
- **Staff report on the City's Flood Control Strategy and preferred Funding Source including feedback from public consultation (May 2013).**
- **Council decision on funding source**
- **Implementation of the strategy**
 - Implement funding program – timelines depend on recommended option (i.e., local charges require most detailed framework, tiered flat rates require more detailed framework than property tax)
 - Construction of next phases of approved flood control projects
 - Initiate next priority flood control studies (Class EAs)