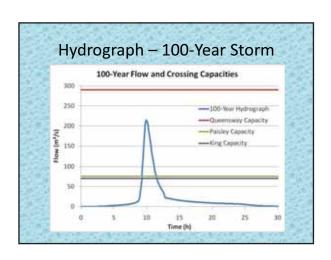


Problem Identification • 304 buildings may flood during the Regulatory storm • Floodplain mapping completed 1975 • Development pre-1975 did not consider floodplain (generally south of Hwy 403) • Development post-1975 was outside the Regulatory floodplain (generally north of Hwy 403) • 94% of the watershed is developed



ocation	Flow (cms)	THE RESERVE AND SHAPE OF
atheson Ave. West	80	The state of the s
istol Road West	95	- And the spine of the same
glinton Ave. West	95	SHOW MAN PROPERTY AND IN
lighway 403	115	
lississauga Valley Road	180	ON Elawater
Central Parkway East	195	
CPR	210	14
oundas Street East	210	
lueensway Ave. East	210	
REM	210	
keshore Ave.	210	
ast Branch		THE PROPERTY OF
glinton Ave. East	40	
Highway 403	60	

Flood Remediation Measures

- Channel and watercourse crossing upgrades
- Storage
- Source and conveyance controls



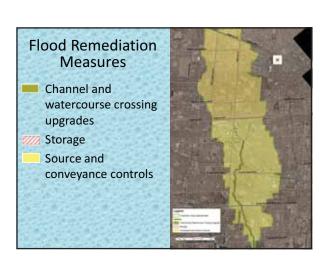
Flood Remediation Measures

 Channel and watercourse crossing upgrades



Flood Remediation Measures • Storage

Flood Remediation Measures • Source and conveyance controls



Long List of Traditional Alternatives

- · Watercourse capacity enlargement
- · Crossing capacity enlargement
- Dykes/berms
- Reservoirs
- Flood proofing
- Land acquisitions

Additional Alternatives

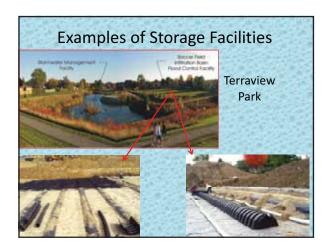
- Storage in upstream locations
- In-channel storage
- Source control measures
- Conveyance control measures
- Site specific measures
- Tunnel
- Specialty solutions
- · Approach for new development

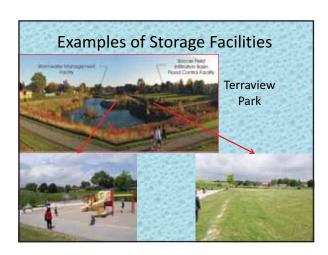
Storage in Upstream Locations

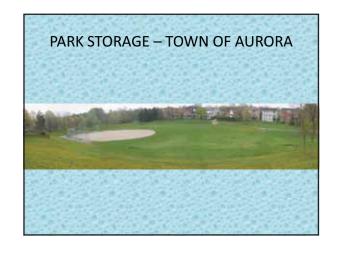
- 2009 storm
 - 68 mm of rain
 - 1.57 million m³ of water over Cooksville Creek subwatershed
- Assuming 10% storage, need 32 football fields with water depths of 1 m
- Storage opportunities are present north of Highway 403

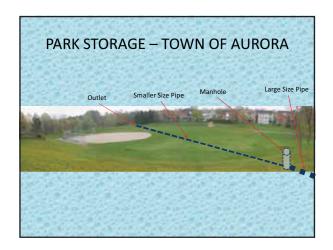
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PARK STORAGE – CITY OF HAMILTON
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In-Channel Storage

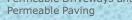
- Mississauga Valley Boulevard
- Kirwin Avenue





Source Control

- Grass Swales or Vegetated Filter Strip
- Bioretention
- Stormwater Planters
- · Cisterns and Rainwater Harvesting
- Soakaways
- Rain Gardens and Bioretention
- Rain Barrels
- Permeable Driveways and











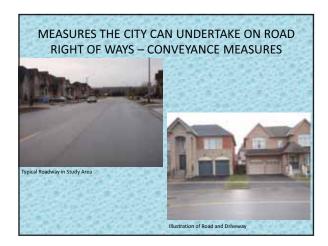










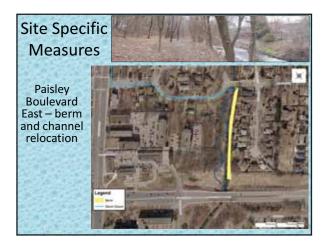














APPROACH FOR NEW DEVELOPMENT

Stringent Stormwater Quantity Control Requirements:

 100-year post-development flows controlled to 2-year pre-development levels

Green Development Standards:

- · Applicable to high-density development
- LEED-NC Silver is benchmark
- Incorporate Low-Impact Development Techniques such as:

bio-retention, rainwater harvesting, permeable pavements, grass swales, green roofs

