Igniting Low Impact Development in London

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Where we are now

- $250 million for stormwater management over the next 20 years
- Based on wet ponds and storm sewers

Ponds, ponds - everywhere!
Southwest Area

Ponds, ponds - everywhere!
The Golden Hammer

- An over-reliance on a familiar tool
- "if all you have is a hammer, everything looks like a nail" Maslow
Assessing Wet ponds

Pros:

- Attenuate post-development flow rates
- Reduce flooding risk
- An amenity space; integrates with natural heritage system

Sunningdale 'Corlon 2' SWMF
Assessing Wet Ponds

Cons:

- Increase runoff **volume**
- Limit infiltration & groundwater recharge
- Does not match the existing spatiotemporal variation of the water flow, i.e., the flow regime.

Westminster Wetlands

[Image of outdoor scene with a circled area and a hammer logo]
Where are we going?

- Ministry of Environment and Climate Change LID Manual to be released by end of 2016
- At-source controls to increase infiltration
- The Toolbox: Low Impact Development

A Suite of Tools
- Bioswales
- Box Planters
- Permeable Pavers
- Green Roofs
- Rainwater harvesting
- Reduced impervious areas

Better match with the existing flow regime.
A Suite of Tools

- Bioretention/Rain gardens
- Bioswales
- Box Planters
- Permeable Pavers
- Green Roofs
- Rainwater harvesting
- Reduced impervious areas

Better match with the existing flow regime.

http://stormwater.horrycounty.org/Home/LowImpactDevelopment.aspx
Opportunities: Municipal Right of Way

- Infrastructure Renewal Projects: opportunities for retrofit Pilot Projects
- Enhance public participation and education
- Incorporate LID into the City's standards as part of the future Complete Streets Manual

Factors to Consider
- Other utilities
- Capital/lifecycle costs
- Maintenance
- Public safety/risk management
- Aesthetics
- How it will integrate with the character of the neighbourhood.

Municipal ROWs

Nashville, TN

Atlanta, GA
Factors to Consider

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- Maintenance
- Public safety/risk management
- Aesthetics
- How it will integrate with the character of the neighbourhood.
New Subdivisions & Site Plans

- Consult with local consulting engineers and developers
- Conduct training and education sessions for internal and external stakeholders
- Update the City's Design Standards and Specification Manual for new development
Dingman Creek Subwatershed

Dingman Creek EA
- Subwatershed Scale EA
- Incorporate LIDs as part of the treatment train
- Pilot Project with MOECC to obtain one
  Environmental Compliance Approval for the
  complete subwatershed stormwater system
- Subwatershed study based objectives,
  comprehensive monitoring
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The Right Tool for the Job!
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