

# **Environmental Activities of TECHNICAL SERVICES**

**By: Bill Crowther**

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# Major Environmental Activities

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- Technical Services supports, enforces and delivers Policies and Programs developed by City Departments
- All Projects comply with Legislative Requirements (environmental) imposed by:
  - Ministry of Environment
  - Department of Fisheries
  - Toronto Regional Conservation Authority
  - Municipal Environmental Assessment

# Major Environmental Activities

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- Wet Weather Flow Management Master Plan
  - Toronto Water initiative developed to mitigate the **Quality** and **Quantity** of rain water run-off (at source, conveyance, end of pipe)
  - Considered when designing and building Municipal Infrastructure (Roads and Sewer)
    - Pervious catchbasins and storm sewers (pending soil conditions)
    - Maintain ditched roads (where feasible)
    - Installing Oil/Grit Separators (where feasible)
    - Ponds/Wetlands
    - Upgrading minimum Design Requirements (sustainable infrastructure)

# Major Environmental Activities

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- Green Development Standards
  - City Planning initiative to create a framework for Environmentally Sustainable Development
  - Implements WWFMMP (**Green Roofs, Parking lots, Porous pavts**)
  - Development applications are reviewed for compliance and opportunities to enhance site are identified
  - Capital Projects considers these initiatives in design and construction of capital projects
- Natural Heritage Preservation Policy
  - Protect, Enhance and Restore Natural Heritage system
  - Work with TRCA and Urban Forestry to ensure designs comply with policy

# Major Environmental Activities

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- Design and Installation of equipment in Wastewater Treatment plants
  - Residue Management
  - Odour Control
  - Ultraviolet Disinfection
  - Waste Activated Sludge Thickening
  - Energy Efficiency
- Collection and Treatment of Combined Sewer Overflows

# Major Environmental Activities

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- Enhance Urban Forest coverage (PF&R initiative)
  - Create Specifications for Tree pit/trench designs, Living Sidewalks (Soil cells)
  - Support/enforce Tree Protection Policy
- Minimize disruption (cars idling in traffic)
  - Coordinate Projects
  - Manage tighter construction schedules
  - Develop design standards to maximize life cycle of infrastructure
- Deliver Cycling Infrastructure projects
- Upgrading Solid Waste Facilities to help achieve Waste Diversion goals

# Major Environmental Activities

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## Office of Emergency Management

- Mitigation, Response to and Recovery from severe events
- Member of Climate Change Adaptation Sub-committee

# Other Environmental Activities

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- Hot-in-place/Cold-in-place **recycling** of asphalt.
- Recycled materials in right-of-way (Asphalt, Granular)
  - Recycling of materials reduces emissions caused from long distance hauling of virgin stone
  - Reduces amount of material disposed of in land fill sites.
  - Increase in quality of recycled materials as a result of City demands (volume and quality)
- Upgrading Vehicles to greener fleet

# Future Environmental Activities

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- Continually experimenting with new recyclables in pavements (tires, shingles)
- Studying pilot projects using Warm Mix Asphalt (WMA) products
  - Currently Asphalt is mixed at 160°C, WMA is mixed at 60°C
    - Saves Energy
    - Reduces vapors