



Welcome

County of Peterborough Waste Management Master Plan

Public Meeting No. 1

Please:

- Sign in
- Fill out a questionnaire
- Help yourself to refreshments



Description of Waste Generation

- Rural area of 3,805 km²
- Population of 58,182
 - Seasonal increase of 30,000
- 34,269 households
- 23,697 tonnes of waste/year
- 39.4 % waste diversion rate

Waste Management Facilities

- 15 transfer stations
- 4 active landfills (Township)
 - 3 (Township) + 1 (County/City)
- Materials Recovery Facility
- Composting Facility

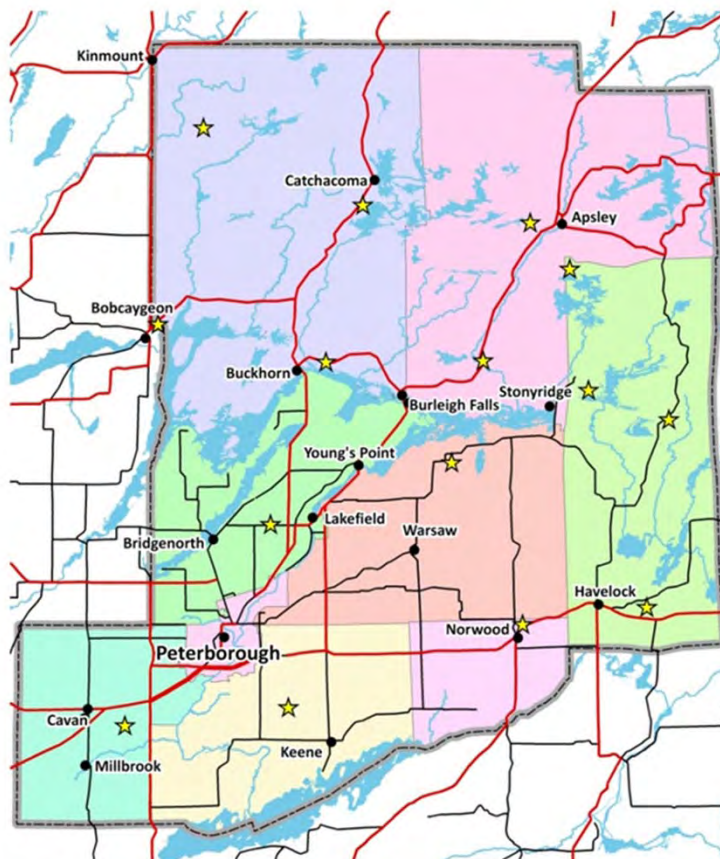


Waste Management Context



Municipal Waste Management Structure

- Townships manage garbage collect and hauling independently
- Majority of waste is transferred to the County/City Waste Management Facility (Bensfort Road Landfill)
- Remainder is disposed at local landfills
- Blue Box material collection and processing managed by the County



Waste Management Master Plan (WMMP)

The WMMP will:

- Provide overall direction for the waste management system
- Address diversion and disposal needs for the next 20 years
- Identify opportunities to increase diversion
- Identify opportunities to reduce the amount of waste needing disposal





WMMP Schedule



The WMMP will take approximately 14 to 18 months to complete. A final document is anticipated by July 2012.

Step 1: Understanding and Assessing the Current Waste Management System

- Review of existing facilities & services

Step 2: Establish Goals and Objectives

- Based on provincial and municipal priorities, objectives, and targets
- **Public Meeting Set No. 1**
 - Survey /Questionnaire

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Step 3: Identify and Assess Options

- Evaluate alternative methods
 - Determine options and their potential contribution towards sustainable waste management
 - Develop criteria; assess options
 - Discussion of 3 broader categories for discussion with the public
 - Cost effectiveness
 - Social acceptability
 - Net environmental effects

Step 4: Develop the WMMP Document

- Public Meeting Set No. 2
 - Survey/Questionnaire
- The WMMP document will:
 - Include results of analysis
 - Identify the existing system
 - Present a framework for future waste management



Key WMMP Considerations



- Varied remaining disposal capacity at County/City and Township landfill sites
- Non-uniform level of service between Townships
- Fluctuating populations (seasonal variations) more pronounced in some Townships
- Distinct municipal service areas which may cause potential County system inefficiencies



Policies/Collection Programs

- Diversion programs are managed at the County level (i.e. blue box, MHSW, WEEE, Organics)
- Each Township is responsible for any bag tag/limits/user pay system or policy enforcement
- All Townships have different policies and services for residents

Township	Policies in Place	Garbage Collection	Recycling Collection
Asphodel-Norwood	Bag Tags and By-law 2010-75	Depot and Curbside	Depot and Curbside
Douro-Dummer	Bag Tags	Depot and Curbside	Depot and Curbside
Cavan Monaghan	By-law 2010-89	Depot and Curbside	Depot and Curbside
Galway-Cavendish-Harvey	Clear Bags, By-law 2005-122	Depot	Depot
Havelock-Belmont-Methuen	By-law 2010-84	Depot and Curbside	Depot and Curbside
North Kawartha	Bag Tags, By-law 2009-121	Depot and Curbside	Depot and Curbside
Otonabee-South Monaghan	Bag Limit	Depot and Curbside	Depot and Curbside
Smith-Ennismore-Lakefield	Bag Tags and By-law 2009-64	Depot and Curbside	Depot and Curbside



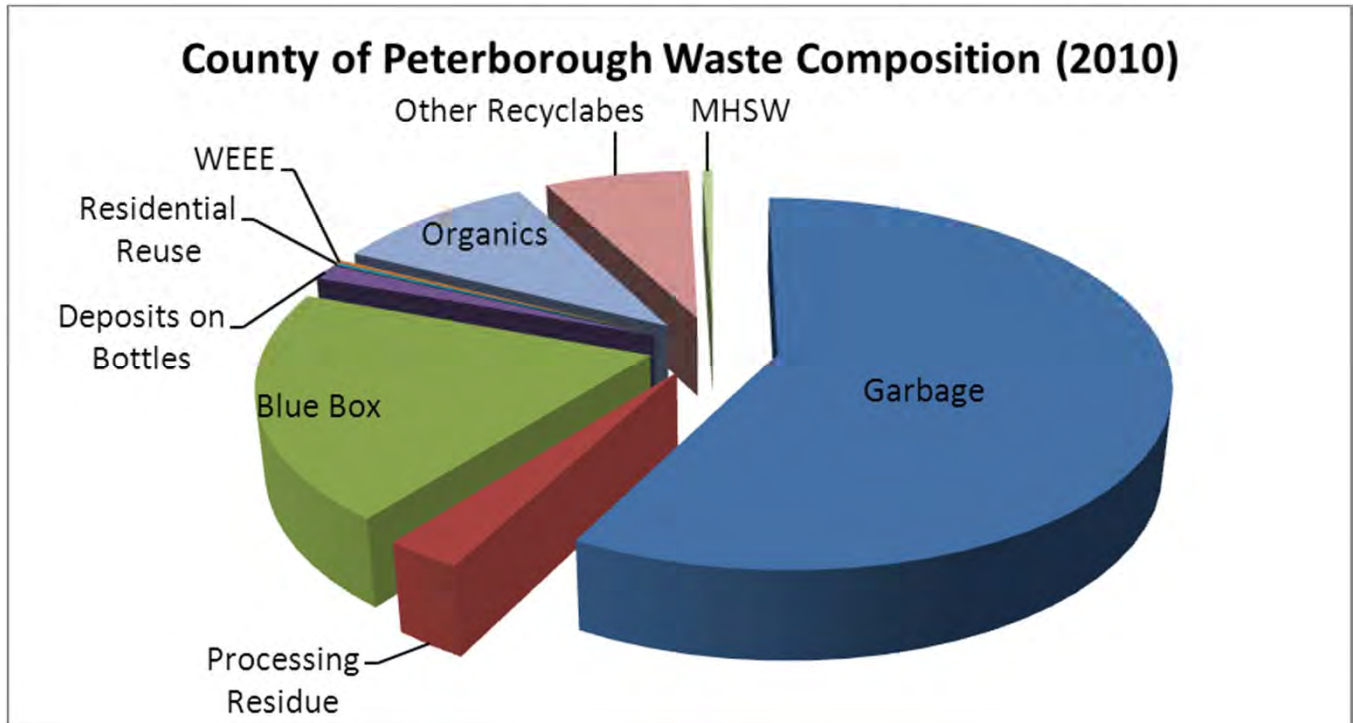
Waste Diversion



- Provincial target is 60%
- Current diversion rate 39.4%
- Diversion programs are managed at the County level
 - Curbside blue box collection from 24,541 households
 - Curbside source separated organics in Bridgenorth (Pilot Study)
- Diversion initiatives in the County include:
 - Blue box collection
 - Residential reuse
 - Residential deposit return
 - Organics/leaf/yard waste
 - Municipal Hazardous and Special Waste (MHSW)
 - Waste Electronics and Electrical Equipment (WEEE)
 - Other (scrap metal, tires, appliances)



County Waste Composition



A total of 23,697 tonnes of residential waste was generated within the County in 2010

- Approximately 9,347 tonnes was diverted from landfill through programs such as blue box recycling, leaf and yard waste composting, MHSW collections, and backyard composting



Township Waste Composition

Municipality	Households ₂	Garbage Per Person (kg/yr)	Blue Box Recycling/Person (kg/yr)	Overall Diversion Rate (% total)
Ontario Average		250	220	
County Average		246	91	39
Asphodel-Norwood ₃	2,077	138	118	59
Cavan Monaghan	3,088	440	153	36
Douro-Dummer	3,442	279	88	34
Galway-Cavendish-Harvey	5,407	285	59	34
Havelock-Belmont-Methuen ₃	4,199	244	55	28
North Kawartha	3,433	114	52	40
Otonabee-South Monaghan	2,851	285	104	41
Smith-Ennismore-Lakefield ₃	8,988	207	104	42

Notes:

1. Source: (Waste Diversion Ontario, 2011).
2. Population and dwelling counts from the 2006 Census, Statistics Canada
3. Values do not include or account for waste landfilled locally

- County average waste generation rate per person: 245kg/yr



Options for Waste Reduction

- Increase blue box items allowed
- Collect food waste
- Collect leaf/yard waste
- Restrict number of garbage bags (i.e. 2/week max.)
- Clear garbage bags and contents monitoring
- More hazardous waste collection events
- More electronic waste collection events
- Annual appliance pick-up
- Municipal reuse centres
- Used tire collection
- Alter consumer choices to reduce packaging



Options for Future Waste Management

**The County / City landfill has
12 years of capacity remaining**

Options for future waste disposal include:

- Increase waste reduction (extend site life)
 - Accomplished through waste diversion initiatives and changes in consumer behaviour
- Landfill expansion or search
- Export waste outside of County
 - Waste could potentially be landfilled or treated thermally
- Thermal Treatment with potential for energy generation
 - An advanced technology that would allow energy to be recuperated from waste
- Other ideas? Tell us your thoughts.



Open House Session

- Please help yourself to refreshments
- Please take a moment to complete a questionnaire (or take one home)
 - Questionnaire's can also be completed on the County website
- Please ask questions or provide your comments to meeting organizers

*Thank you for attending and participating in the
County of Peterborough Waste Management
Master Plan
Public Meeting No. 1.*

Keep Informed

- Further information can be obtained at:

County of Peterborough
Contact Laurie Westaway
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Cambium Environmental Inc.
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