

Measurement and Reporting Workshop

March 8, 2016 in Calgary

March 10, 2016 in Edmonton

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Generally Accepted Principles (GAP) for Calculating Municipal Solid Waste System Flow

What is GAP?

- Standard protocol to measure waste flow in a municipality
- If all municipalities use the same protocol, diversion results are comparable
- Allows “apples to apples” comparison of diversion performance, disposal quantities, etc.

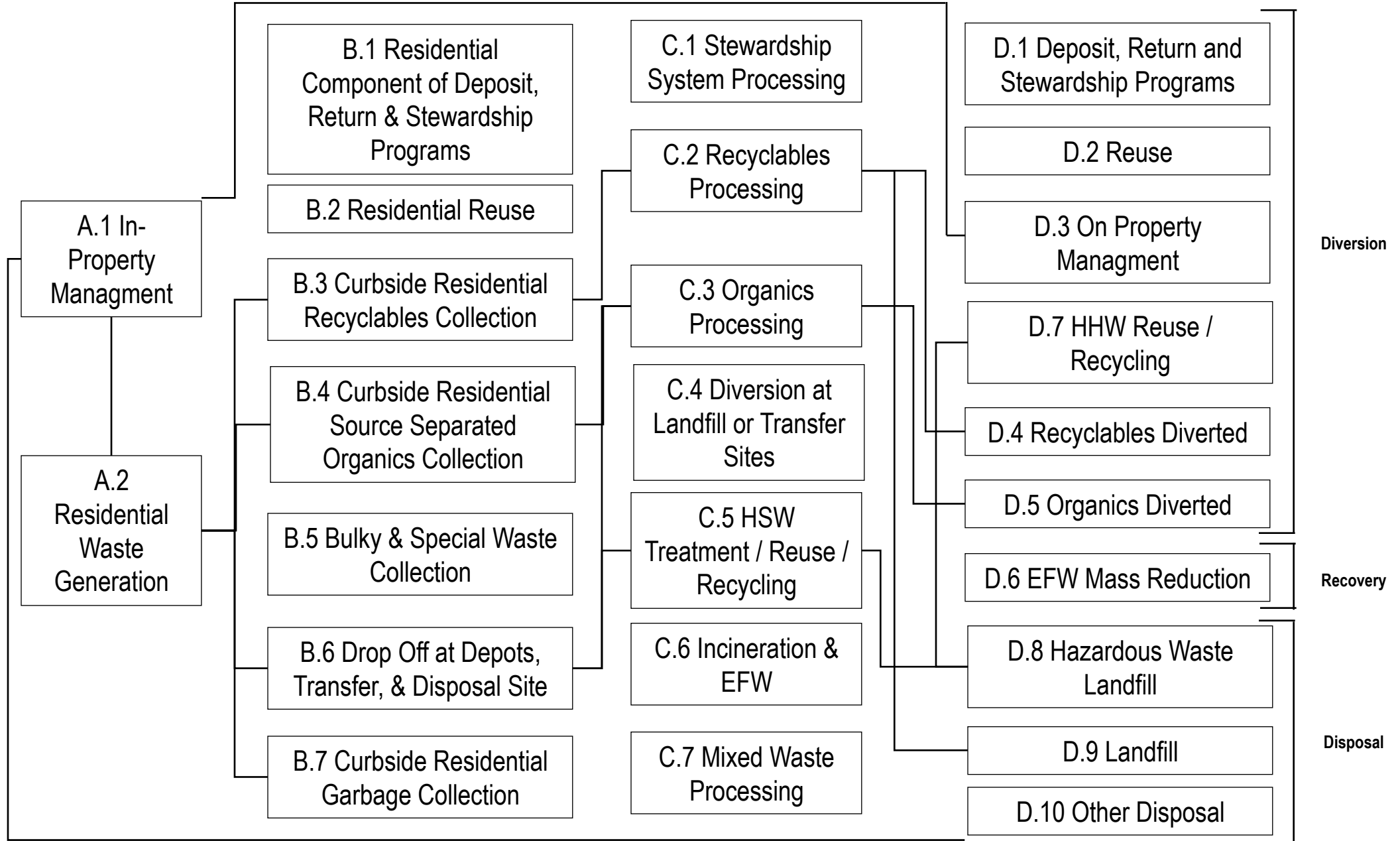
Need Identified in 1999

- Waste/diversion statistics inconsistently reported
- Locally defined rules – often politically or economically driven diversion reporting
- Lack of harmonization amongst Provincial data submissions
- Impossible to compare program effectiveness

GAP Vision

- Develop a *common reporting framework* so that municipalities across Canada can compare diversion, cost and environmental performance of waste management systems

GAP Residential Waste Flow Chart



Summary Statistics

Collection

Processing

Final Destination

GAP RESIDENTIAL WASTE FLOW FORM

Get Data

Redraw Lines

Please complete all shaded area's



Municipality: _____
 Contact: _____
 Telephone #: _____ e-mail: _____
 Year: _____

COLLECTION					
A.1 Residential On-Property Management	B.1 Residential Component Deposit, Return & Stewardship Program				
# of BYC units	Total (tonnes)				C1
BYC (tonnes)					
grasscycling (tonnes)	B.2 Residential Reuse				
evapotranspiration (tonnes)	Total (tonnes)				D2
garburators (tonnes)					
open burning (tonnes)	B.3 Curbside Residential Recyclables Collection				
burning in fireplace (tonnes)	Total tonnes				C2
Total					
	B.4 Curbside Residential Source Separated Organics Collection				
	Yard Waste (tonnes)				C3
	Fall Leaf (tonnes)				C3
	X-mas tress (tonnes)				C3
	Bulky/Oversized Yard Waste (tonnes)				C3
	Hhld Organics (tonnes)				C3
	B.5 Residential Bulky & Special Waste Collection				
		Direct to Market	Disposal	Additional Process	Additional *C.4 only
A.2 Population & Household Data	HSW (tonnes)				
Population	Bulky Goods (tonnes)				
Single Family Pop	White Goods (tonnes)				
Multi-Family Pop	Scrap Metal (tonnes)				
Total Population	Tires (tonnes)				
(Total only can be given if split not available)	Other(tonnes)				
	B.6 Residential Drop Off at Depots, Transfer or Disposal				
		Direct to Market	Disposal	Additional Process	Additional *C.4 only
Households	Garbage (tonnes)				
Single Family Hhld	Recyclables (tonnes)				
Multi-Family Hhld	Source Separated Org (tonnes)				
Total Households	X-mas trees (tonnes)				
(Total only can be given if split not available)	Leaf and Yard Waste (tonnes)				
	Bulky/Oversized Yard Waste (tonnes)				
	C&D (tonnes)				
	HSW (tonnes)				
	Bulky Items (tonnes)				
	White Goods (tonnes)				
	Scrap Metal (tonnes)				
	Tires (tonnes)				
	Electronics (tonnes)				
	Other(tonnes)				
	B.7 Curbside Residential Garbage Collection				
		Landfill	EFW	Mixed Waste Proc.	
	Total (tonnes)				D9-C6-C7
	Recycling Collection not included above:				
	B.8 Wet Curbside Collection	Total (tonnes)			
	B.9. Dry Curbside Collection	Total (tonnes)			



Waste Measurement

- Movement to tracking waste disposal (kg/cap) vs. waste diversion (%)
- Still need national measurement standards
 - Consistency for comparison
 - Issues with definitions
 - Disposal
 - Diversion
 - Recycling



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Feedback Questions



Waste Measurement Questions

- Why do you measure waste?
- What are you currently tracking?
 - Municipal data
 - Contractor data

Waste Measurement Questions

- What waste data do you currently report to the public?
 - Metrics
 - Performance
- Do you track reporting to targets?

Waste Measurement Questions

- What performance measures do you incorporate?
 - What indicators are required to track to measures?
 - Disposal
 - Diversion
 - Environmental indicators
- How do you measure waste diversion?
 - How do you account for residuals?

Waste Measurement Questions

- What data gaps do you currently have?