



Green Manitoba
Bringing Eco Solutions to You

CR&D Waste Diversion in Manitoba

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CR&D Waste Diversion

- What is CR&D Waste?
- Characterization of CR&D Waste in Canada
- Policy Tools for Reducing and Diverting CR&D Waste
- Uses for CR&D Waste
- Plans for CR&D Waste Diversion in Manitoba



What is CR&D Waste?

- Waste generated from:
 - Construction of a new structure
 - Destruction of an existing structure
 - Alteration or repair of an existing structure
- Residential and non-residential sources
- Does it include...
 - Land clearing?
 - Road and bridge construction?
 - Hazardous waste?
 - Fixtures?

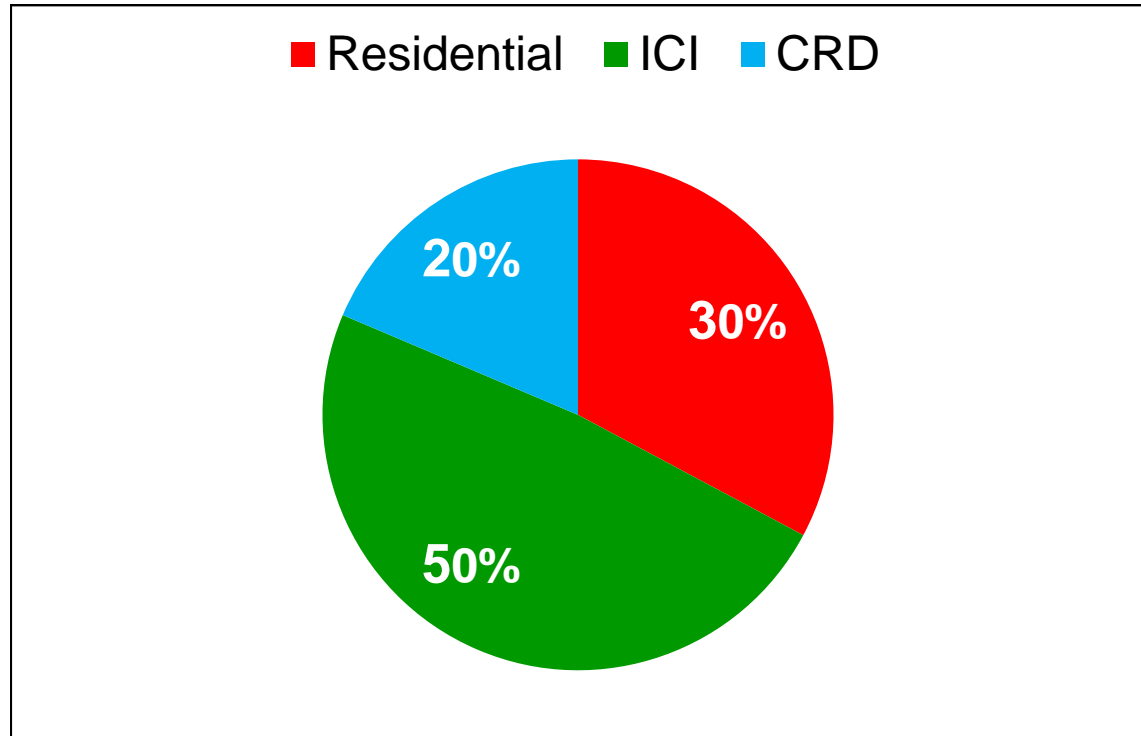




CR&D Waste Characterization



Percent of the Waste Stream



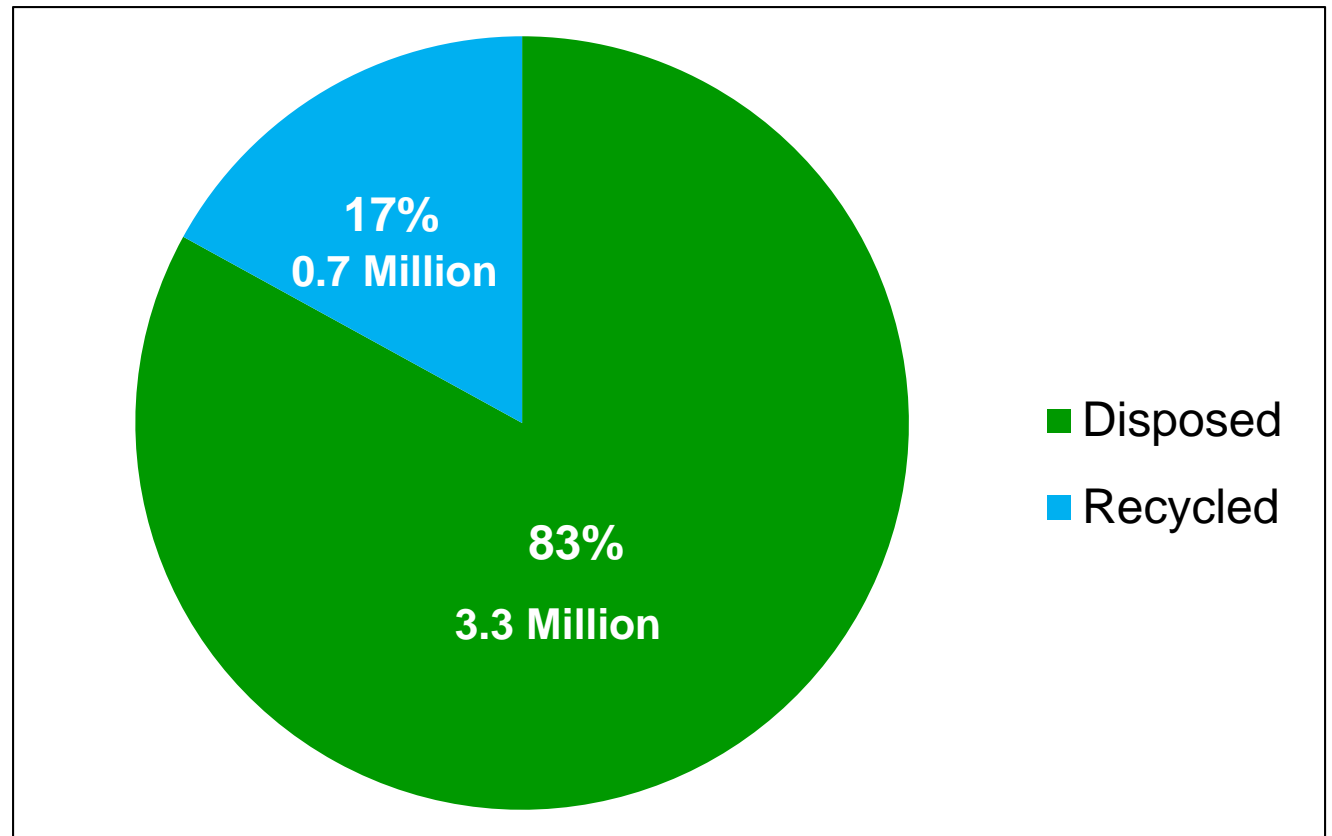
BC Waste Analysis (2006)



CR&D Waste Characterization



CR&D Waste Disposed & Recycled in Canada



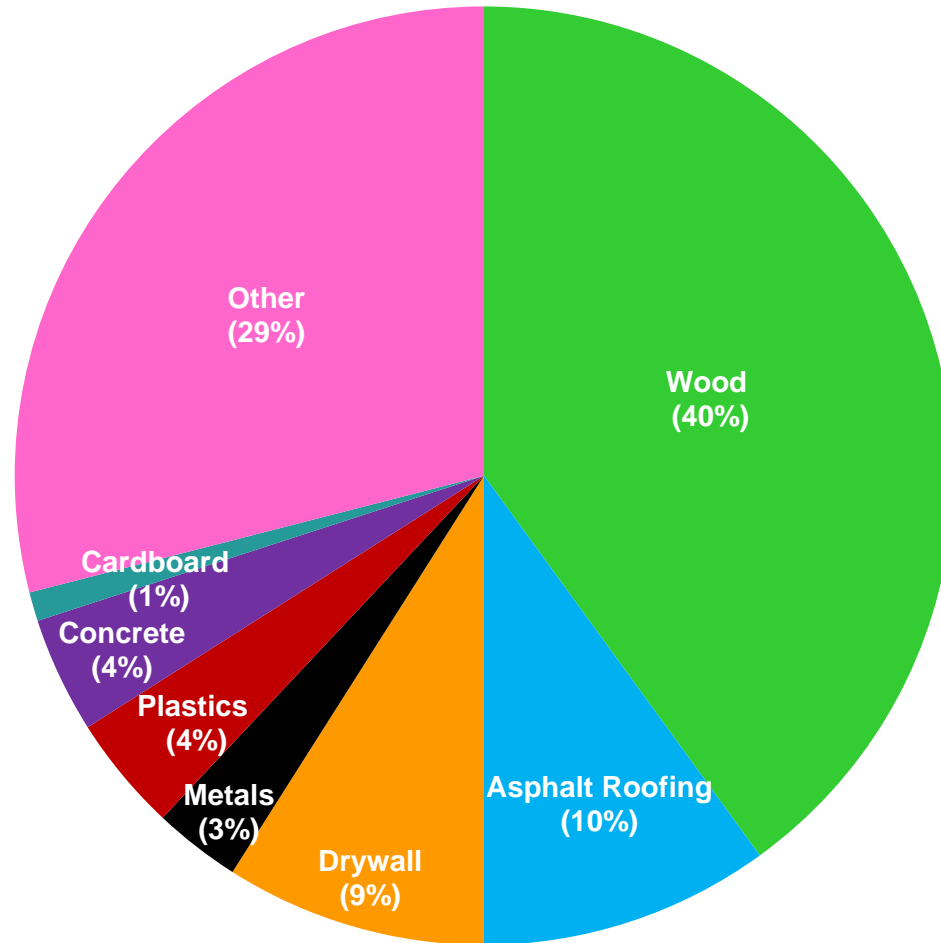
Environment Canada (2015)



CR&D Waste Characterization



Composition of CR&D Waste in Canada



Environment Canada (2015)

Policy Tools for Diverting CR&D Waste

- Differential Tipping Fees
- Landfill Bans
- Permit Process
- EPR



Differential Tipping Fees

- Lower tipping fee placed on specific CR&D waste materials
- Requires source separation



Landfill Bans

- Ban specific CR&D materials from landfills
- Key Requirements:
 - Enforcement – surcharges, inspectors
 - Established CRD waste processors
 - Established end markets



Permit Process

- Building, demolition and/or occupancy permits
- Deposit-Refund approach
- CR&D waste diversion plan



- May refuse permit, if requirements not met
- Fee discount
- Expedite process

Extended Producer Responsibility (EPR)

- Producer assumes responsibility for cost of management/recycling
- Cost paid upfront versus at disposal stage



- Encourages waste reduction and infrastructure development
- Administratively complex
- CCME Canada-wide Action Plan on EPR



Other Policy Tools

Mandatory Source Separation

- Must separate reusable and recyclable and make reasonable efforts to ensure reused or recycled

Dedicated Disposal Levy

- All waste entering a landfill charged a levy
- Funds collected fund special projects

Municipal Diversion Rebates

- Receive rebates from province based on diversion

Green Building Policies

- Credits related to waste

Uses for CR&D Waste

| Waste Material | | End Use |
|------------------------|---|---|
| Wood | Clean Wood (20%) | <ul style="list-style-type: none"> • Reuse • Compost • Animal bedding • Mulch • Fuel |
| | Engineered, Treated, Painted Wood (20%) | <ul style="list-style-type: none"> • Limited end uses |
| Asphalt Shingles (10%) | | <ul style="list-style-type: none"> • New asphalt • Cold patch • Road and building fill • Fuel |
| Drywall (9%) | | <ul style="list-style-type: none"> • Reuse • New gypsum boards • Cement • Compost |
| Concrete (4%) | | <ul style="list-style-type: none"> • New concrete • Road and building fill |

CR&D – What's Next?

- Manitoba Waste Characterization Study
- Municipal CR&D Waste Diversion Survey
- Directory of Sources and Services
- “Waste Exchange”



CR&D – What's Next?

- Support Research and Development Projects (WRAPP Fund)
- CR&D Workshops and Forums – 2015
 - Share information, discuss ideas and network
 - What would work in Manitoba and why?
- Recommendations for CR&D Management in MB



Questions?

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