

# Capital Regional District

## Meeting Minutes

### Solid Waste Advisory Committee

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Friday, February 3, 2023

12:30 PM

CRD Boardroom  
625 Fisgard Street  
Victoria, BC V8W 2S6

PRESENT: F. Baker, C. Blanchard, M. Coburn, J. Collins, B. Desjardins (Chair), S. Gose (EP), M. Kurschner (EP), E. Latta (EP), N. Macdonald (EP), M. McCullough (EP), D. Monsour, R. Newlove, J. Oakley (EP), R. Pirie, J. Shaw, K. Siefried, D. Thran, R. Tooke (Vice-Chair), S. Young Jr.

STAFF: A. Chambers (Recorder), W. Dunn, L. Ferris, A. Gilmour Ford, K. Masters, A. Panich (EP), R. Smith, T. Urquhart

REGRETS: J. Rintoul

GUEST: M. O'Gorman (DND)

EP - Electronic Participation

The meeting was called to order at 12:30 pm.

#### 1. Territorial Acknowledgement

#### 2. Introductions

A round of introductions were made.

#### 3. Approval of Agenda

Agenda for the February 3, 2023 Solid Waste Advisory Committee meeting.

**MOVED by J. Shaw, SECONDED by M. Coburn**  
**That the agenda be approved as circulated.**  
**CARRIED**

#### 4. Adoption of Minutes

Minutes from the July 8, 2022, Solid Waste Advisory Committee meeting.

**MOVED by D. Monsour, SECONDED by R. Tooke**  
**That the minutes of the July 8, 2022, Solid Waste Advisory Committee meeting be adopted as circulated.**  
**CARRIED**

#### 5. Chair's Remarks

Welcome back to the committee, looking forward to being your Chair again this year.

## 6. Election of Vice Chair

B. Desjardins called for nominations of Vice-Chair for the Solid Waste Advisory Committee.

M. Coburn nominated R. Tooke and this was seconded by D. Monsour. Rory accepted the nomination.

B. Desjardins called for nominations a second time.

Voting commenced around the table and virtually.

B. Desjardins declared R. Tooke Vice Chair of the Solid Waste Advisory Committee.

## 7. Committee Business

- a. Solid Waste Advisory Committee Terms of Reference Overview.

The Terms of Reference were provided to the group for information (Appendix A). As the Solid Waste Advisory Committee turns into a monitoring function, staff will bring forward (in spring 2023) a Workplan associated with implementation of the Solid Waste Management Plan to the group.

- b. 2022 Solid Waste Stream Composition Study – Results and Discussion

A. Gilmour Ford presented on the 2022 waste composition study. The full report will be going to the Environmental Services Committee on February 15, 2023. The presentation is attached as Appendix B. The full report will be brought to the Solid Waste Advisory Committee at its March meeting. A discussion ensued on the following:

- Waste composition studies have been done since 1990 and are typically every 5-years.
- The next waste composition study will be done in 2026.
- Study included materials brought to the active face only.
- Further discussion will be had on the waste composition study at the March Solid Waste Advisory Committee meeting.

- c. Actual and Projected Monthly Refuse Tonnages at Hartland Landfill (standing item)

W. Dunn spoke to the graph. The tonnage graph is included below:

<https://www.crd.bc.ca/about/data/hartland-landfill-tonnage>

## 8. Correspondence

There was no correspondence.

## 9. Next Meeting

The next Solid Waste Advisory Committee meeting will be March 3, 2023.

## 9. Closing Comments

There were no closing comments.

## 10. Adjournment

The meeting was adjourned at 14:14.

**MOVED by D. Thran, SECONDED by D. Monsour  
That the Solid Waste Advisory Committee be adjourned.  
CARRIED**



## **SOLID WASTE ADVISORY COMMITTEE**

### **PREAMBLE**

The Capital Regional District (CRD) Solid Waste Advisory Committee is an Advisory Committee established by the CRD Environmental Services Committee to provide input on solid waste management matters and meet the requirements of the Ministry of Environment's *Guide to Solid Waste Management Planning* for an advisory committee on the development and implementation of the Solid Waste Management Plan (SWMP).

The Committee's official name is to be:

Solid Waste Advisory Committee

### **1.0 PURPOSE**

The mandate of the Committee includes advising the Environmental Services Committee regarding the following:

- a) providing input on major solid waste management matters
- b) serving as the advisory committee to the Steering Committee (Environmental Services Committee) on the development of Revision 3 of the SWMP
- c) acting as plan monitoring advisory committee for the new SWMP, once approved

### **2.0 ESTABLISHMENT AND AUTHORITY**

- a) The Environmental Services Committee will:
  - appoint the committee members for up to a three-year term
  - act as the Steering Committee for Revision 3 of the SWMP
  - appoint a member as the liaison between the advisory committee and the Environmental Services/Steering Committee
- b) The Committee will report its input to the Environmental Services Committee for consideration. The CRD Board is the final decision-making authority.

### **3.0 COMPOSITION**

The Committee shall consist of members representing a diversity of background, interests and geographical location, representing a balance between technical and non-technical members and industry and public members, as follows:

<b>Representation</b>	<b>Number of Members</b>
Regional District Director (The Chair of the Environmental Services Committee)	1
Municipal engineering staff who are involved in solid waste collection	2
Electoral Area representative	1
First Nations	2
Environmental organizations	1
Business groups	1
Non-profit group with an interest in solid waste (e.g. reuse organization)	1
Large waste generators (industrial, commercial, institutional)	2
Owners/operators of private waste management facilities	2
Private sector industry collection service providers	2
Composting industry representative	1
Product stewardship agency	1
Solid waste technology representative	1
Community representative (representing Prospect Lake/Hartland area)	1
Public representatives, at large	3
Willis Point representative	1
District of Highlands representative	1

### **4.0 PROCEDURES**

- a) The CRD Board Procedures Bylaw will apply.
- b) The Chair of the Environmental Services Committee shall be Chair of the Solid Waste Advisory Committee
- c) The Committee shall meet at the call of the Chair and have special meetings, as required.
- d) The agenda will be finalized in consultation between staff and the Chair.
- e) A quorum is a majority of the committee membership and is required to conduct committee business.

## **5.0 RESOURCES AND SUPPORT**

- a) The Senior Manager, Environmental Resource Management, will lead the coordination and allocation of resources to the Committee.
- b) Minutes and agendas are prepared and distributed by the Environmental Resource Management division.

Approved by Environmental Services Committee on January 20, 2021



# 2022 Solid Waste Composition Study

Presented to Solid Waste Advisory Committee  
*February 3, 2023*

# Study Outline

- Sampling occurred September 5 – 22, 2022
- 82 samples collected
- Sector-specific data for:
  - Single-family (SF)
  - Multi-family (MF)
  - Industrial, Commercial and Institutional (ICI)
  - Public Drop Off (DO)
  - Construction and Demolition (C&D)
- 14 primary material categories and 94 secondary categories





# Hand Sorting

CRD





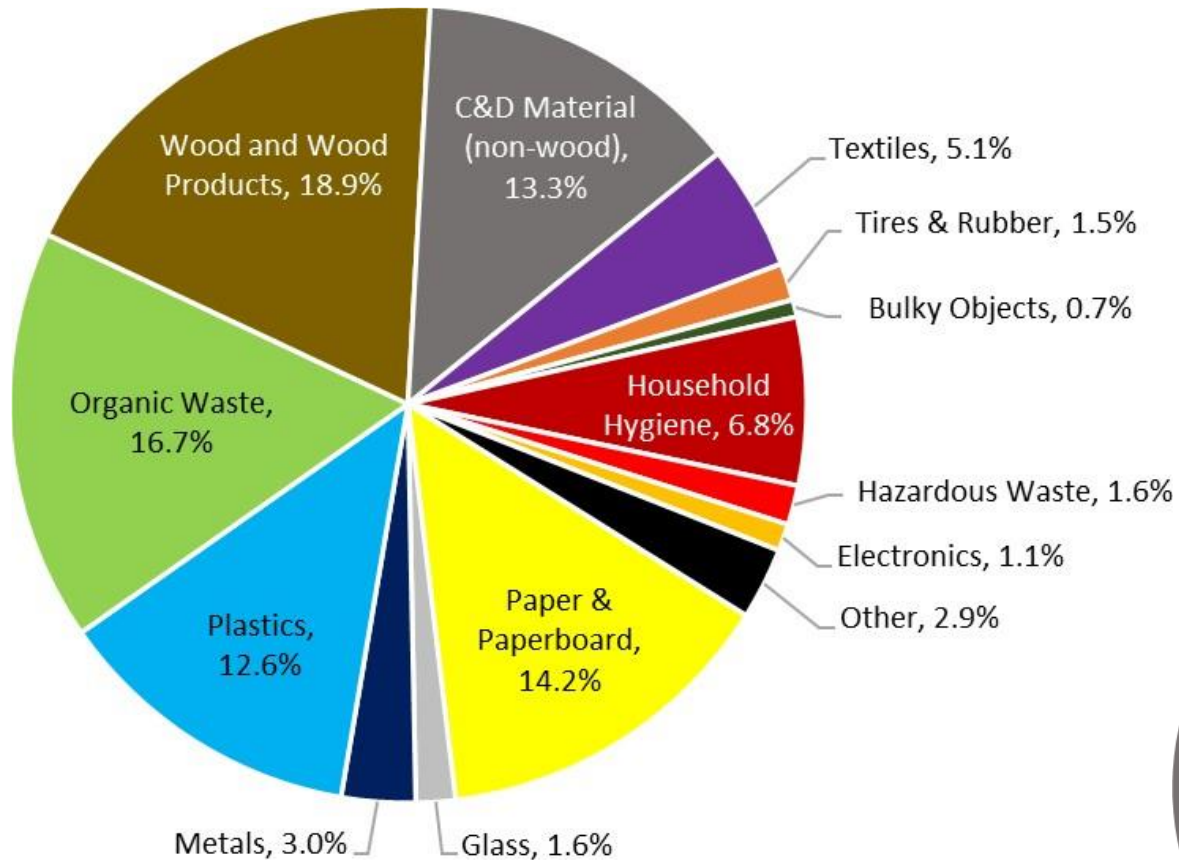
# Visual Assessments

CRD

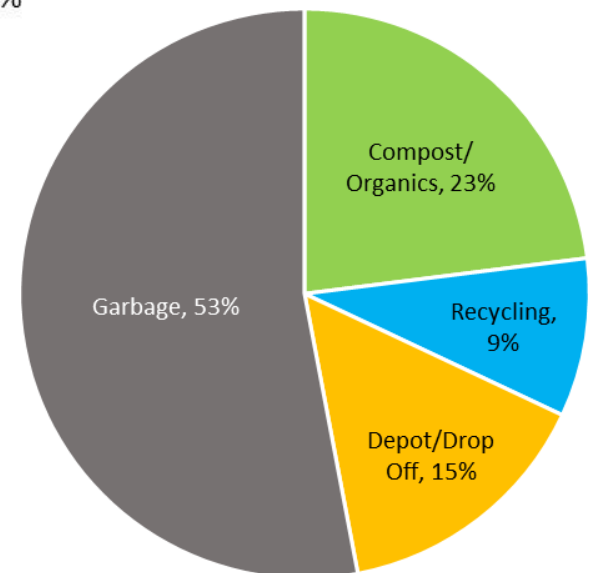


# Combined Results

CRD



Composition of the Overall Garbage Stream



Diversion Potential of the Overall Garbage Stream

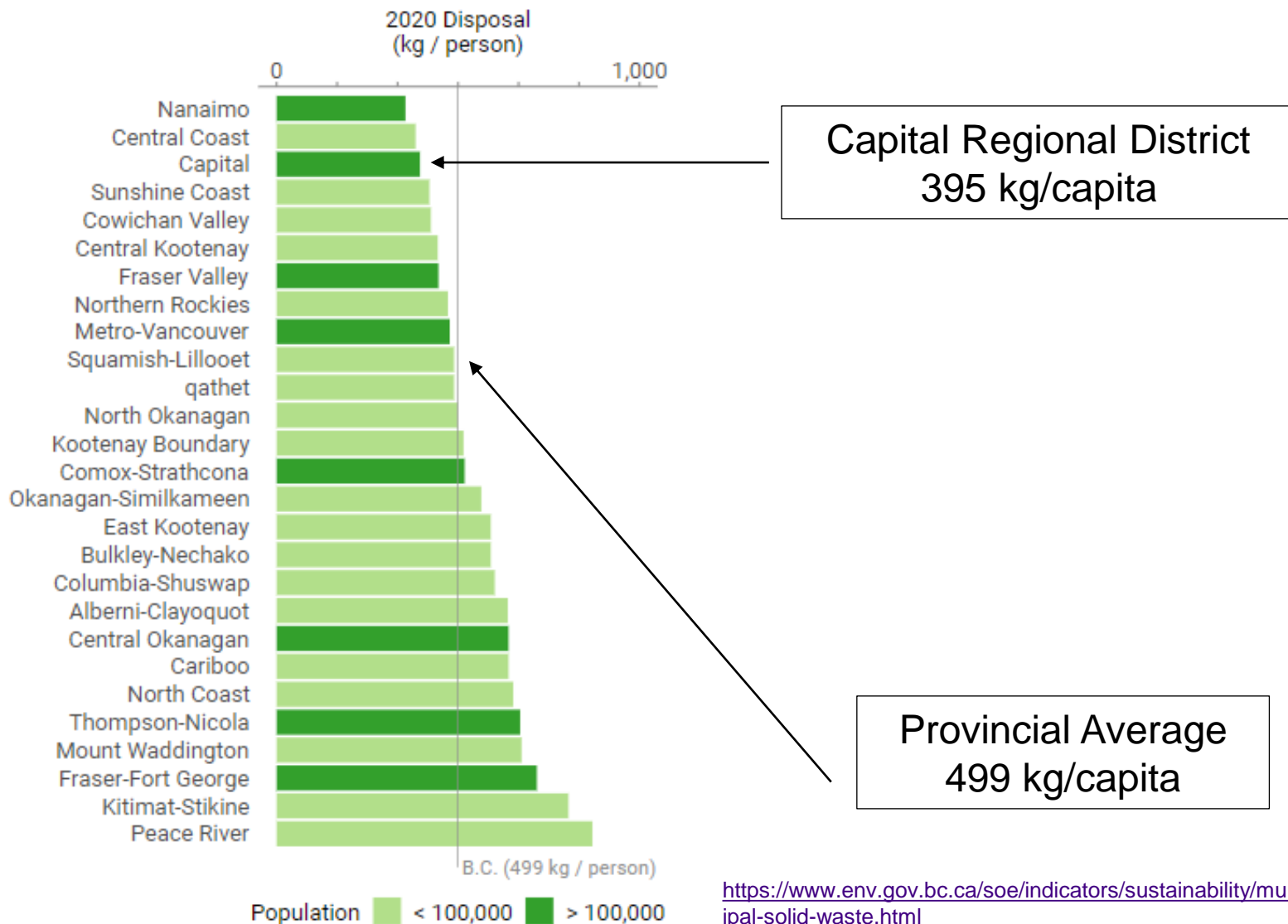
# Historic Waste Composition Comparison



Primary Category	2009/2010 <sup>1</sup>	2016	2022	Change (2016 to 2022)
	Weighted Average Composition (%)			
Paper and Paperboard	15.5%	15.4%	14.2%	-1.2%
Glass	1.9%	1.7%	1.6%	-0.1%
Ferrous Metals	2.3%	1.8%	0.3%	-1.5%
Non-ferrous Metals	0.6%	0.7%	2.7%	2.0%
Plastics	12.5%	14.3%	12.6%	-1.7%
Organics	27.7%	21.1%	16.7%	-4.4%
Wood and Wood Products	12.2%	17.0%	18.9%	1.9%
C&D (non-wood)	7.4%	6.7%	13.3%	6.6%
Textiles	5.3%	5.9%	5.1%	-0.8%
Tires	0.7%	0.8%	1.5%	0.7%
Bulky Objects	0.6%	1.3%	0.7%	-0.6%
Household Hygiene	8.9%	6.9%	6.8%	-0.1%
Hazardous Wastes	0.7%	1.8%	1.6%	-0.2%
Electronics	1.8%	1.8%	1.1%	-0.7%
Other	1.9%	2.7%	2.9%	0.2%

# Provincial Disposal Rate by Regional District (2020)

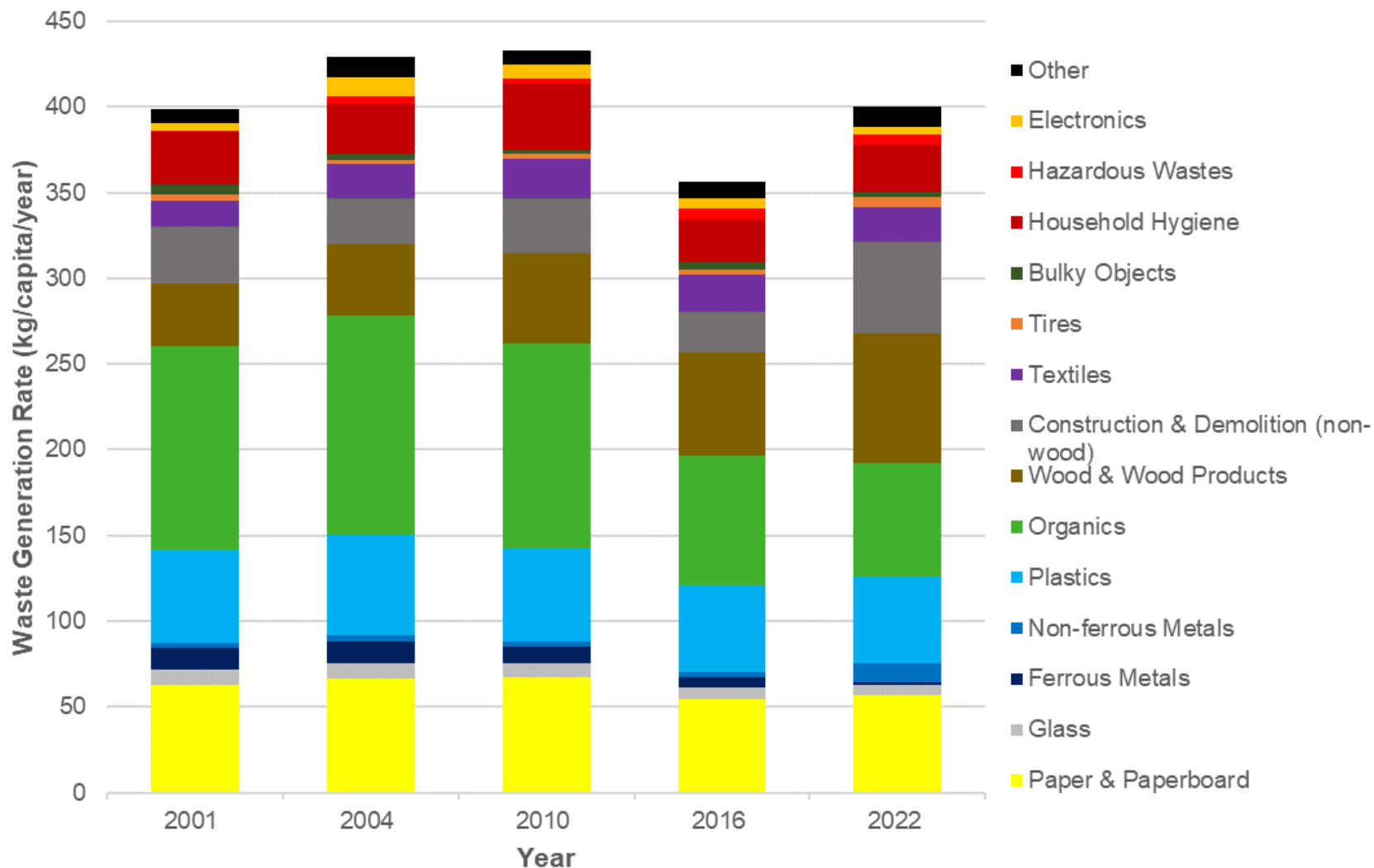
CRD





# Per Capita Disposal by Material Category

CRD



# Solid Waste Management Plan



## Goals

Have informed citizens who participate effectively in proper waste management practices

Surpass the provincial per capita waste disposal target

Extend the life of Hartland Landfill to 2100 plus

Ensure that the CRD's solid waste services are financially sustainable

## Strategies

### REDUCTION & REUSE

1. Continue and Enhance Education Programs
2. Encourage Waste Prevention
3. Support Reduction of Avoidable Food Waste
4. Support Reuse Activities in the Region
5. Support Local Governments in Working Towards Zero Waste and a Circular Economy
6. Continue and Enhance Policy Development

### RECYCLING

7. Increase Residential Diversion
8. Increase Multi-Family Diversion
9. Increase Industrial, Commercial and Institutional Diversion
10. Support Existing and New Extended Producer Responsibility Programs
11. Increase Organics Diversion and Processing Capacity
12. Increase Construction, Renovation, and Demolition Material Diversion
13. Encourage Proper Public Space Waste Management Activities

### RECOVERY & RESIDUALS MANAGEMENT

14. Optimize Landfill Gas Management
15. Enhance Hartland Disposal Capacity



## Historic Per Capital Waste Generation Rates at Hartland Landfill by Material Type



Primary Category	Annual Waste Generation Rate (kg/capita)				
	2001 <sup>1</sup>	2004 <sup>1</sup>	2009/2010 <sup>1,2</sup>	2016	2021
Paper and Paperboard	62	67	67	55	57
Glass	9	9	8	6	6
Ferrous Metals	13	12	10	6	1
Non-ferrous Metals	3	4	3	2	11
Plastics	54	59	54	51	51
Organics	119	128	120	75	67
Wood and Wood Products	37	41	53	61	76
C&D (non-wood)	33	27	32	24	53
Textiles	15	20	23	21	20
Tires	3	2	3	3	6
Bulky Objects	6	4	3	4	3
Household Hygiene	30	29	38	25	27
Hazardous Wastes	1	5	3	6	7
Electronics	4	11	8	6	4
Other	8	12	8	10	12
<b>Total</b>	<b>399</b>	<b>429</b>	<b>433</b>	<b>357</b>	<b>400</b>

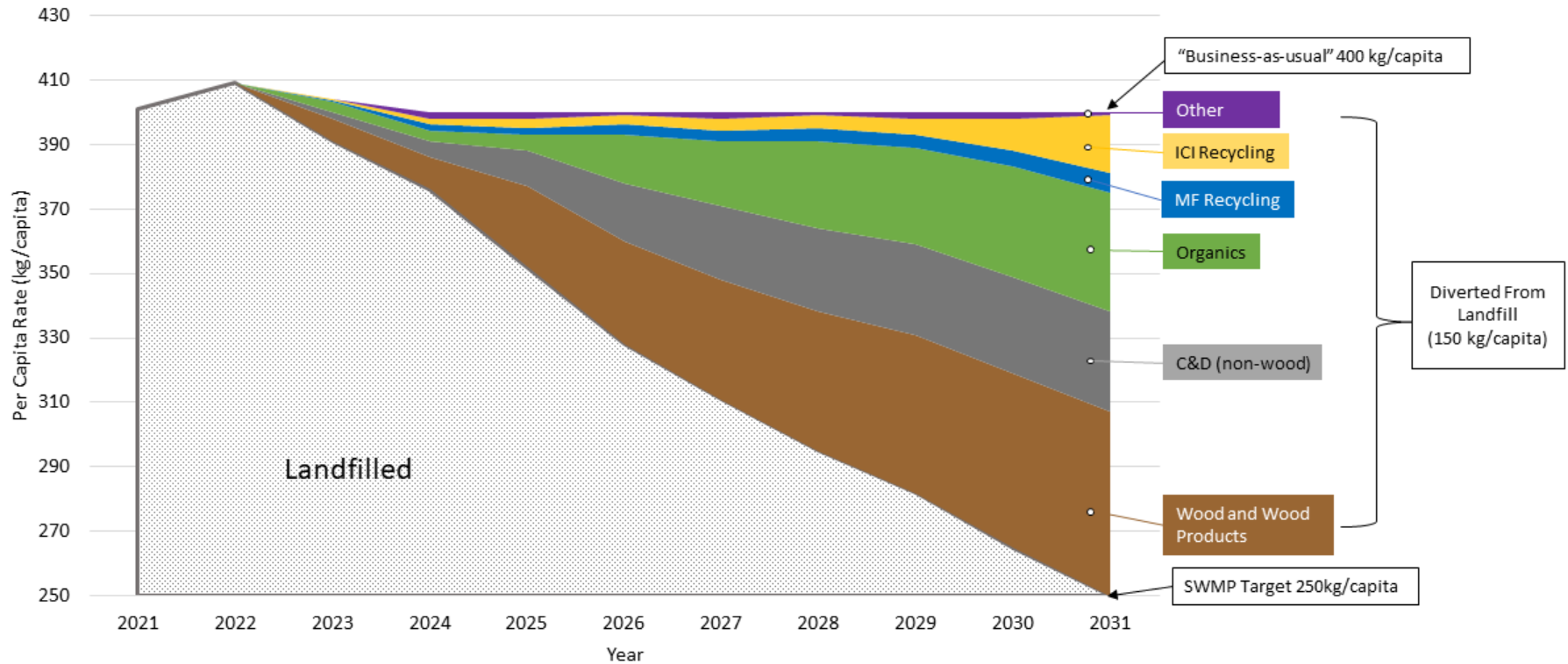
<sup>1</sup>The categories from the 2001, 2004, and 2009/2010 waste composition study were reorganized and recalculated to allow for direct comparison with the 2016 results.

<sup>2</sup>The 2009/2010 kg/capita was recalculated to include the tonnage of waste that arrived at the Highest Landfill. No tonnage data is available for Highest Landfill in 2001 and 2004.

# Pathway to 250 kg/capita

CRD

Conceptual Pathway to Regional Waste Disposal Rate of 250 kg/capita



- expanding landfill bans to new material streams that that can be recycled, repurposed or otherwise recovered
- developing new reduced tipping fee rates for source-separated materials to encourage source separation of banned materials that could be recycled or recovered
- increasing the Hartland tipping fee for mixed general refuse to discourage materials that could be separated from ending up in the general refuse stream, and to partially offset the cost of reduced tipping fees for source-separated recyclable/recoverable materials
- expanding material stream diversion services at Hartland to ensure that banned materials diverted from the general refuse end up in alternative processing streams or end markets
- expanding enforcement of landfill material bans

# Questions?