# METRO VANCOUVER REGIONAL DISTRICT SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE

Tuesday, July 9, 2024 2:00 pm – 4:00 pm A G E N D A

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### 1.1 July 9, 2024 Meeting Agenda

#### 2. MINUTES

### 2.1 June 11, 2024 Meeting Minutes

#### 3. REPORTS AND ITEMS FOR DISCUSSION

### 3.1 Follow-up on organics management/capacity

For input/feedback

Designated Speaker: Paul Henderson, General Manager, Solid Waste Services

### 3.2 Draft Metro Vancouver 5-Year Capital Plan

For input/feedback

Designated Speaker: Paul Henderson, General Manager, Solid Waste Services

### 3.3 Long-Term Disposal Planning / Vancouver Landfill

For input/feedback

Designated Speaker: Paul Henderson, General Manager, Solid Waste Services

Small group and plenary discussions proposed questions:

- What infrastructure is most important for Metro Vancouver to prioritize for public investment?
- How should the private sector be involved in infrastructure development for the region?

#### 4. OTHER BUSINESS

#### 4.1 Zero Waste Committee and Other Updates

For information

Designated Speaker: Paul Henderson, General Manager, Solid Waste Services

#### 5. INFORMATION ITEMS

- **5.1** Regional Waste Flows
- **5.2** 2024 Work Plan

#### Committee Co-Chairs:

Director Craig Hodge, Zero Waste Committee Vice-Chair Lori Bryan, Executive Director, Waste Management Association of BC

#### Membership:

Abrams, Izzie – Waste Connections of Canada Bryan, Lori – Waste Management Association of BC Collins, James – Tymac Launch Service Ltd. Crawford, Jeremy – Waste Control Services Deol, Harwant - Super Save Group Dietrich, Christian – Ecowaste Industries Diamant, Jen – Capital Salvage Furtado, Glen – Cement Association of Canada Gontovnick, Jeff – 1-800-GOT-JUNK? Hankins, Grant – Canada Minibins.com Ltd. JansenVandoorn, Josh – Anaconda Systems Ltd.

Jessa, Imran – Delta Textiles Exporters Inc. Johnson, Gord – Northstar Kaminski, Jamie – HSR Zero Waste Kawakami, Sean – Convertus Canada Ltd. Kiani, Aiden – Lock-Block Ltd. Koehn, Leanne – Ridge Meadows **Recycling Society** Lannin, Mike – Super Save Group MacNeil, Patrick – Wescan Disposal MacFarlane, Angus – Growing City Mallari, Achilles – Sierra Waste Services Ltd. McAra, Matthew - GFL Environmental Inc. McRae, Ralph - Revolution Infrastructure Inc.

Millman, David - Waste Management of Canada Corp. Moucachen, Maya – Merlin Plastics Pantazopoulos, Dimitri – Waste Connections of Canada Prasad, Shad – Cascade Recovery + Scaldaferri, Fabio – Pacific Mattress Recycling Inc. Skei, Dayton – Evergen Infrastructure Corp. Sigmund, Sandy – Encorp Pacific Canada, Return-It Turner, John – BC Biocarbon Ltd. Van de Wetering, Jasper – Heidelberg Materials Canada Ltd. Vargas, Pinky - Republic Services Young, Stewart, GFL Environmental Inc. Zarbl, Michael - Major Appliance Recycling Roundtable

Metro Vancouver and City of Vancouver Staff:

Allan, Chris – Metro Vancouver Belanger, Lynn – City of Vancouver Henderson, Paul – Metro Vancouver Joy, Samantha - Metro Vancouver Liu, Stephanie – Metro Vancouver McDermott, Jon – City of Vancouver Mizan, Zeenia – Metro Vancouver Underwood, Chris – Metro Vancouver Vidler, Lynne – Metro Vancouver

### METRO VANCOUVER REGIONAL DISTRICT SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE MEETING

Minutes of the Regular Meeting of the Solid Waste and Recycling Industry Advisory Committee Meeting held at 2:00 p.m. on Tuesday, June 11, 2024, via Zoom Video Conference.

#### **MEMBERS PRESENT:**

Lori Bryan, Waste Management Assoc. of BC (Co-Chair)

Craig Hodge, Director, Metro Vancouver Board of Directors (Co-Chair)

Edwin Berkhof, Evergen Infrastructure Corp.

Jeremy Crawford, Waste Control Services

Happy Deol, Super Save Group

Glen Furtado, Cement Association of Canada

Grant Hankins, Canada Minibins.com Ltd.
Josh JansenVandoorn, Anaconda Systems Ltd.

Gord Johnson, Northstar

Jamie Kaminski, HSR Zero Waste

Sean Kawakami, Convertus Canada Ltd.

Mike Lannin, Super Save Group

Patrick MacNeil, Wescan Disposal Ltd.

Achilles Mallari, Sierra Waste Services Ltd.

Matthew McAra, GFL Environmental Inc.

Ralph McRae, Revolution Infrastructure Inc.

David Millman, Waste Management of

Canada Corp.

Maya Moucachen, Merlin Plastics

Dimitri Pantazopoulos, Waste Connections of

Canada

Shad Prasad, Cascade Recovery +

Ken Schultze (Alternate for Fabio Scaldaferri),

Pacific Mattress Recycling Inc.

Sandy Sigmund, Encorp Pacific Canada,

Return-It

John Turner, BC Biocarbon Ltd.

Jasper Van de Wetering, Heidelberg Materials

Canada Ltd.

Pinky Vargas, Republic Services

Stewart Young, GFL Environmental Inc.

#### **MEMBERS ABSENT**

Izzie Abrams, Waste Connections of Canada James Collins, Tymac Launch Service Ltd. Jen Diamant, Capital Salvage Christian Dietrich, Ecowaste Industries Jeff Gontovnick, 1-800-GOT-JUNK? Imran Jessa, Delta Textiles Exporters Inc. Leanne Koehn, Ridge Meadows Recycling Society

Aiden Kiani, Lock-Block Ltd.

Angus MacFarlane, Growing City

Michael Zarbl, Major Appliance Recycling

Roundtable

#### METRO VANCOUVER (MV) AND CITY OF VANCOUVER STAFF:

Terry Fulton, Senior Project Engineer, Solid Waste Services
Zack Ha, Administrative Assistant, Solid Waste Services
Paul Henderson, General Manager, Solid Waste Services
Samantha Joy, Engagement Specialist, Solid Waste Services
Karen Storry, Senior Project Engineer, Solid Waste Services
Adrianna Velazquez, Senior Project Engineer, Solid Waste Services
Chris Clarke, Engagement Specialist, Solid Waste Services

**PREPARATION OF MINUTES:** Justine Wiklo, Raincoast Ventures Ltd.

### **Solid Waste and Recycling Industry Advisory Committee Meeting**

June 11, 2024 2:00 PM – 4:00 PM Zoom

### **Agenda**

- 1. Agenda
  - 1.1. June 11, 2024, Meeting Agenda
- 2. Minutes
  - 2.1. May 14, 2024, Meeting Minutes
- 3. Reports and Items for Discussion
  - 3.1. Disposal Ban Exemption Pilot Program

For Information and input

Designated speaker: Paul Henderson, Metro Vancouver

3.2. Construction and Demolition Waste Management and Capacity

For input/feedback – small group discussions

Designated speaker: Karen Storry, Senior Project Engineer, Solid Waste

With respect to recycling capacity and product markets:

- What is currently working well?
- What could be improved? What should be prioritized?
- What are some examples of different solutions? Are there additional things we should be considering?
- 4. Other Business
  - 4.1. Zero Waste Committee Updates

Verbal Update

Designated Speaker: Paul Henderson, General Manager, Solid Waste

- 5. Information Items
  - 5.1. Regional Waste Flows
  - 5.2. 2024 Work Plan

#### **MEETING MINUTES**

Co-Chair Lori Bryan called the meeting to order at 2:03 p.m. and welcomed attendees to the Solid Waste Industry and Recycling Advisory Committee meeting. Participants were reminded to use the Zoom "raised hand" function to provide questions or comments or for any voting that might be required, and to ensure their names were correctly identified in the participant list.

#### AGENDA

#### 1.1 June 11, 2024, Meeting Agenda

Co-Chair Bryan reviewed the June 11, 2024 meeting agenda. No additions were made.

#### 2. MINUTES

### 2.1 May 14, 2024, Meeting Minutes

Co-Chair Bryan called for any additions or changes to the meeting minutes of May 14, 2024. There were no changes or additions to the meeting minutes of May 14, 2024.

It was noted that the minutes indicate that the feedback summary from the small group and plenary discussions at the May meeting are posted on the Industry Advisory Committee website; however, that information item has not yet been posted. The minutes will be amended and members will be notified by email when the May meeting feedback summary is posted.

#### 3. REPORTS

#### 3.1 Disposal Ban Exemption Pilot Program

Co-Chair Hodge introduced the Disposal Ban Exemption Pilot program that is in development, noting that this is an initiative meant to incentivize recycling at the source. The program is in the design and development stage, so there are opportunities for Industry Advisory Committee members to provide input into the program design, and also participate in the pilot program itself.

Paul Henderson, General Manager, Solid Waste, Metro Vancouver, reviewed information on the Disposal Ban Exemption Pilot Program, noting the following highlights:

- The goal is to develop a pilot program to be implemented in the hauling community that will provide incentives for working with generators and processors.
- We are looking for early input from participants in the industry specifically, how can haulers demonstrate working with their customers and processors. We want to understand how the hauling community can participate in encouraging more sorting at the source, to get recyclables out of the waste stream.
- The current disposal ban process relies on visual inspections, which has limitations, for instance items in black bags being challenging to see. Dillon Consulting will be conducting interviews to get feedback on the design of the program

Participants were asked to consider if they had any initial ideas on elements that could be included in a pilot program to incentivize haulers to encourage recycling, and the following comments were offered in discussion:

 Previously when hauling a load, if there was a lot of cardboard, it was possible to go into the back of the truck to remove and sort it. This is no longer allowed due to safety concerns, which is understandable; however, it would be worthwhile having some the ability to remove recyclable materials from loads before disposing at the site

- For small haulers, the loads are inspected and charged, but the challenge is with largescale commercial loads
- Customers need to have additional space to have separate bins for plastics and recyclable materials, and this can be a challenge
- There is the issue of capacity, with respect to where materials are accepted for recycling
- With direct hauls from customer recycling, the driver is not going to sort the materials themselves; there are always going to be recyclable materials that do not have anywhere to go, such as some plastics
- At a processing facility, the cost of recovery, as well as other impacts and safety measures, makes it challenging to remove materials from hauling trucks.
- Lack of consistency in protocols for sorting some private facilities will hand-sort materials, while others may have excavators to sort.

It was noted that Metro Vancouver wants to work with haulers and contractors to discuss these challenges and will be reaching out to Industry Advisory Committee members to participate in this pilot program or provide input on program design through an interview with Dillon Consulting.

### 3.2 Recycling and Organics Capacity and Product Markets

Co-Chair Bryan advised that feedback from the key topic small group discussions is recorded as feedback summaries that will be included in the solid waste management plan update feedback logs for the Idea Generation phase of engagement.

Karen Storry, Senior Engineer, Metro Vancouver, reviewed a presentation on recycling capacity and product markets, noting the following highlights:

- The goal is to increase recycling through additional capacity
- Single family homes have well developed infrastructure and access to recycling; however, access for multifamily and commercial buildings need improvement
- Plastics, paper, and organics make up the majority of recycled materials; there are gaps
  when it comes to things like mattresses or bulky furniture with these items being
  inconsistently recycled
- Metro Vancouver has implemented several educational programs and campaigns, which have been used to increase participation and decrease contamination
- A review of regulations is a tool that could be used to increase capacity, such as increased
  producer responsibility, single-use and plastic waste reduction, and regulation on organic
  matter recycling. These all have an impact on both the capacity and quality of the market.
- Voluntary standards and guidelines also support increased recycling, such as the Canada Plastics Pact, which works to eliminate plastics that do not have recycling markets
- There is the need for convenience and accessibility, and it is also known there are challenges with land cost and availability.
- Siting and approvals for new facilities can be a lengthy and challenging process to navigate.

Co-Chair Bryan introduced the following questions regarding recycling capacity and product markets for discussion in breakout groups:

- What is currently working well?
- What could be improved? What should be prioritized?
- What are some examples of potential solutions?

Small group discussion took place for 20 minutes. During discussion, it was noted that the feedback summary notes would be shared to the Industry Advisory Committee webpage when they are completed. Members will be notified when the notes are posted.

A plenary discussion continued after the small group sessions, and the following comments were offered:

- In 2013, when municipal organics were introduced, there were three facilities in Delta and Richmond that were processing over 420,000 tonnes of organics.
  - In 2018, one of these facilities shut down, leaving a gap of 250,000 tonnes of capacity, although the Surrey Biofuel opened shortly after
- Metro Vancouver has allowed commercial loads to have up to 25% organics, and many haulers mix organics with waste loads and received no fines; this material is still in the Metro Vancouver waste system and is not being recovered.
- There are capacity issues around the Lower Mainland space/land, number of receiving facilities, and end use markets.
- A secondary issue is that there is a lot of large particle wood that cannot be recycled
- A priority should be to recycle those 150,000 tonnes or more of organics that are currently in the waste stream
- There is a potential to contract with a third party, to develop additional processing capacity
- If an organization wanted to establish a compost facility an application to the municipality is required; however, siting new facilities is very challenging, not due to regulation but the broader community concerns about having waste facilities in proximity
- The City of Surrey's organics processing facility has been seen as very successful.

Co-Chair Bryan thanked participants for the discussion.

#### 4. OTHER BUSINESS

#### 4.1 Zero Waste Committee Updates

Paul Henderson provided an update noting that The Zero Waste Committee agenda has been published; the meeting is on June 13, 2024. Items on the agenda include:

- Tipping Fee Bylaw updates related to the generator levy
- The draft vision and guiding principles for the solid waste management plan update is going forward for consideration. This has been revised after feedback heard from the Industry Advisory Committee, and other advisory committees

- In the Managers Report, there is a note on a contract extension with Food Mesh food recovery network, as well as information on upcoming Waste-To-Energy Facility operations and maintenance
- An RFP for operation of the Waste-to-Energy Facility will be posted; the current operator does not intend to carry on operations beyond March 2025
- A media event hosted by Renewal Development on June 18, 2024 will feature a project to move houses from a Coquitlam neighbourhood to a First Nations community in Agassiz.
- The new software system for weigh scales is being launched, and provides a range of new benefits:
  - o automated license plate reading
  - o the ability to email weigh scale tickets
  - PDF invoices
- An inventory of available educational materials and information that is available to haulers is being compiled Metro Vancouver will share the information once complete..

#### 5. INFORMATION ITEMS

### 5.1 Regional Waste Flows

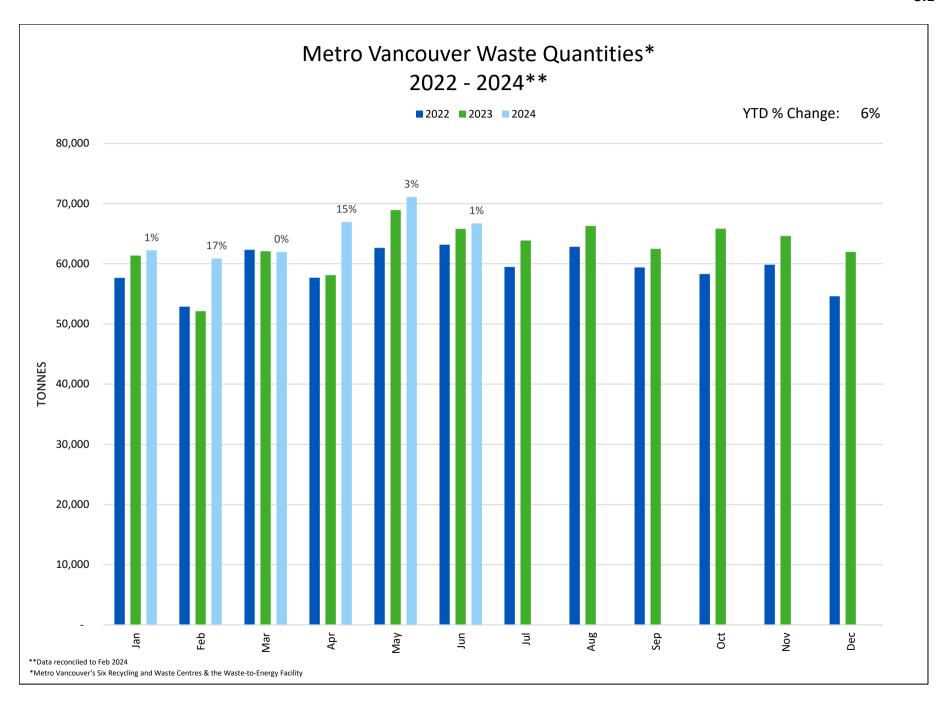
#### 5.2 **2024** Work Plan

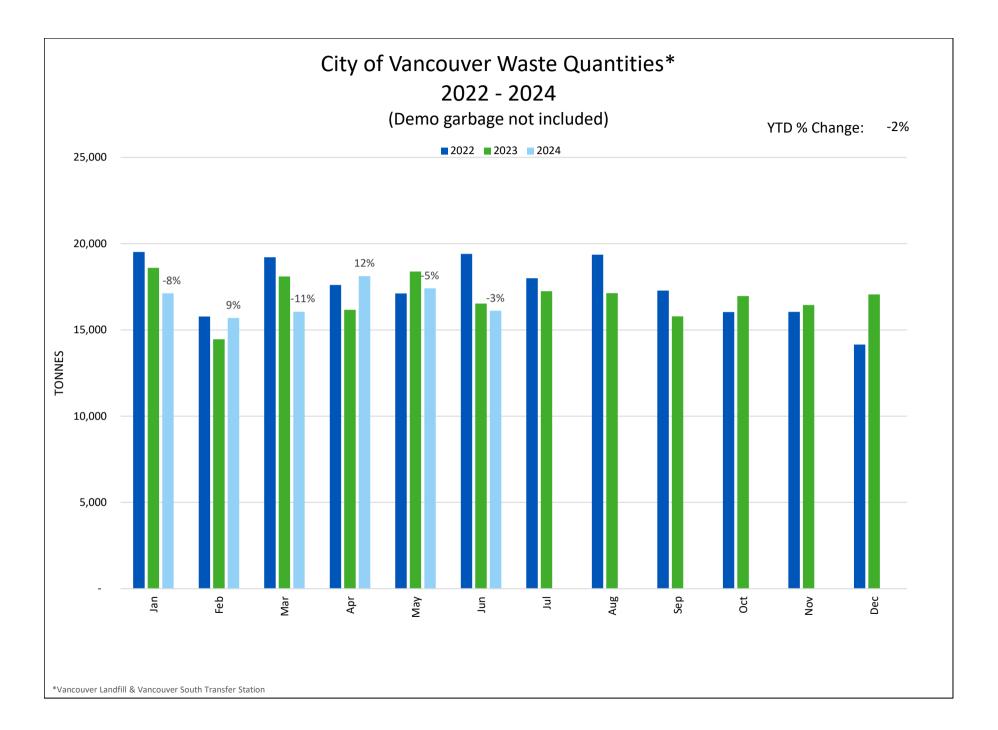
In reference to the information items, Co-Chair Bryan noted all were attached to the agenda package.

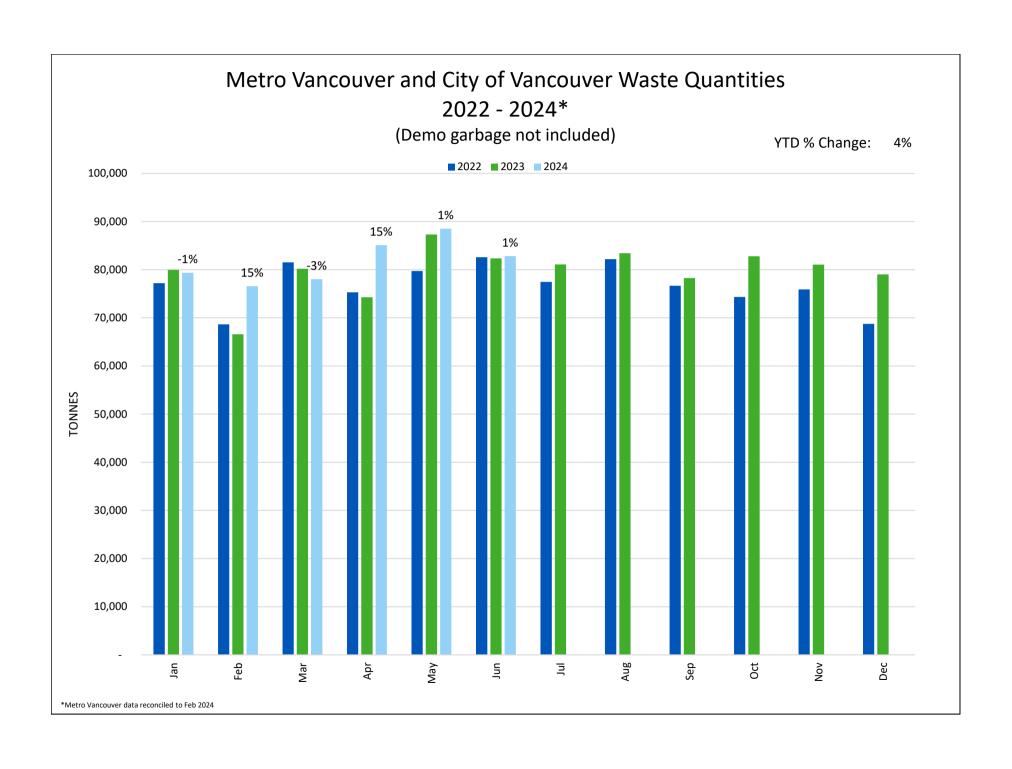
#### **ADJOURNMENT**

Co-Chair Brian thanked Industry Advisory Committee members for their participation, comments, and feedback, and advised that the next Solid Waste and Recycling Industry Advisory Committee meeting would be held on July 9, 2024, on Zoom, and will cover the topics of long-term disposal planning and Metro Vancouver capital plan.

The Solid Waste and Recycling Industry Advisory Committee meeting adjourned at 3:40 p.m.









### SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE 2024 WORK PLAN

July 9, 2024

Quarter 1	Status or Scheduled Month	Approach
Call for Submissions for 2024 IAC Membership	Complete	Plenary
Concrete and Asphalt Recycling Review – Draft Study Scope	Complete	Plenary
Integrated Solid Waste and Resource Plan Biennial Report	Complete	Plenary
Residuals Management Options Review – Draft Study Scope	Complete	Plenary
Quarter 2	Status or Scheduled Month	Approach
Construction and Demolition Waste Management and Capacity	Complete	Small group
Co-Chair Election (Nominations in March)	Complete	Plenary
Prioritize timeline for solid waste management plan development	Pending	TBD
Recycling capacity and product markets (including organics)	Complete	Small group
Solid Waste Management Plan Update – Idea Generation: Issue/Opportunity Report Review	Complete	Small group
Solid Waste Management Plan Update – Vision and Guiding Principles Report Back	Complete	Small group
Quarter 3	Status or Scheduled Month	Approach
Metro Vancouver Capital Budget	In-progress	Small group
Vancouver Landfill/Long-term disposal planning (including contingency disposal)	In-progress	Small group
Public Education – role of public and private entities	Pending	TBD
Generator Levy and Competition	Pending – Sept	Small group
Circular Economy and Share/Reuse/Repair ideas	Pending	Small group
Quarter 4	Status or Scheduled Month	Approach
Recycling Statistics/Metrics	Pending	Plenary
Solid Waste Management Plan Update – Idea Generation	Pending	Small group / workshop



### **AGENDA**

- 1. Agenda July 9, 2024
- 2. Minutes June 11, 2024
- 3. Reports and Items for Discussion
- 4. Other Business
- 5. Information Items



### 3.1 ORGANICS MANAGEMENT / CAPACITY

Follow-up

- Metro Vancouver receives approximately 60,000 tonnes per year of organics at recycling and waste centres:
  - North Shore Single Family Residential
  - Yard Trimmings
  - North Shore Commercial
- Developing procurement process with goal of entering into a long-term contract for a portion of organics to be managed within a specified radius of United Boulevard



United Boulevard Recycling and Waste Centre Scale

## SOLID WASTE SERVICES

2025 - 2029 DRAFT CAPITAL PLAN

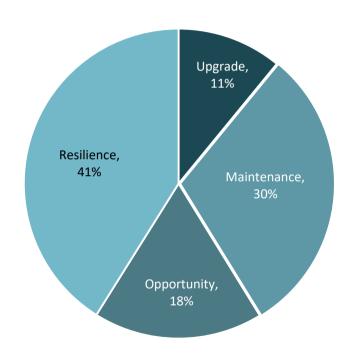
Paul Henderson, P.Eng.

General Manager, Solid Waste Services

Solid Waste and Recycling Industry Advisory Committee Meeting – July 9, 2024

### **CAPITAL PLAN DRIVERS**

Driver	Outcome	% 2025 - 2029 Capital Plan
Maintenance	Maintain assets in a state of good repair	30%
Resilience	Minimize impacts resulting from seismic events and climate change	41%
Upgrade	Enhance levels of service	11%
Opportunity	Reduce life-cycle costs and/or achieve Board goals	18%



### **SOLID WASTE**

### 2025 - 2029 Capital Plan Expenditures

### Overview:

- 2025 2029 Capital Plan: \$339.9M
- 2025 cash flow: \$53.4M
- 23 projects

### **Drivers:**

- Waste-to-Energy Facility
  - · Capital replacement
  - District Energy
- North Surrey and Langley Recycling Depots





### 2025-2029 CAPITAL EXPENDITURES

Key projects in the five year capital plan:

- Waste-to-Energy Facility District Energy project
- North Surrey and Langley recycling depot development
- Biosolids processing
- Waste-to-Energy facility maintenance and capital replacement projects
- Solid Waste Facility Land Purchase



Vancouver Landfill Site Plan

# Long Term Disposal Planning / Vancouver Landfill

Paul Henderson, P.Eng.

General Manager Solid Waste Services

### RESIDENTIAL AND COMMERCIAL/INSTITUTIONAL GARBAGE

Facility	2023 Residential, Commercial and Institutional Garbage (tonnes)*	BOWEN BLAND  NORTH  WASCOURE DISTRICT  NORTH  WASCOURE  DISTRICT  NORTH  WASCOURE  WASTVANCOURE  WAS
Vancouver Landfill	680,000	REGIONAL SOLID WASTE SYSTEM  WANCOUVER VANCOUVER SOUTH TRANSFER STATION  BURNARY  WANCOUVER  WASTE CENTRE  WASTE COUTLAW  RECYCLING & WASTE COUTLAW  RECYCLI
Waste-to-Energy**	220,000	Facility  Municipal Boundary  Treaty Lands  Waste-to-Energy FACILITY  North Surrey FACILITY
Contingency	100,000	First Nation Reserves  Vancouver LANDFIL*  Central Surrey RECYCLING & WASTE CENTRE  LANGELY TOWNSHIP  DAVAGEY TOWNSHIP
Overall	1,000,000	*City of Vancouver facilities

<sup>\*</sup> Tonnages are still being finalized

<sup>\*\*</sup>Waste-to-Energy Facility total was 236,000 tonnes including additional materials such as international waste and treatment plant residuals

### 2023 VANCOUVER LANDFILL TONNAGE

From 2023 Vancouver Landfill Annual Report

Materials	Tonnage
Residential and Commercial Garbage	679,480
Bottom Ash	38,177
Treatment Plant Residuals	6,069
Construction and Demolition Waste	20,932
Total	743,608

### SITE PLAN



**Location:** Delta

Ownership: City of Vancouver

**Began Operations:** 1966

Total Property: 320 Ha

Landfill Footprint: 225 Ha

**Operational Certificate Limit:** 

750,000 tonnes/year

### **AGREEMENTS**

### Tri-Partite Agreement

- Between Vancouver, Metro Vancouver and Delta
- Outlines cost sharing framework
- Outlines benefits to Delta from Metro Vancouver
- Expires 2037

### Vancouver-Delta Agreement

- Between Vancouver and Delta
- Outlines benefits to Delta from City of Vancouver
- Expires earlier of 2037 or 20,000,000 tonnes from 1997

# VANCOUVER LANDFILL REMAINING CAPACITY PARAMETERS

Parameter	Value
Waste capacity as of October 1, 1997	20 million tonnes
Remaining capacity as of December 31, 2022	4,913,453 tonnes
Year expected to reach 20 million tonnes based on current quantities	Approximately end of 2030

### **NEXT STEPS**

- Conversations underway with City of Vancouver and City of Delta
- Physical capacity exceeds 20 million tonnes specified in Vancouver/Delta Agreement
- Delta's intent to renegotiate the financial terms of the relevant agreements in consideration of allowing for continued landfilling to 2037

### RESIDUAL WASTE MANAGEMENT OPTIONS REVIEW

### Morrison Hershfield has initiated residuals management study Study objective

- Provide technical information on options for management of residual waste
- Provide an overview of considerations, potential options, and evaluation criteria

# Focus Regions to Understand Current Residuals Management Practices

- Canada & United States
- European Union
- Japan
- Australia



Thank you

### **SMALL GROUP DISCUSSIONS**

20 minutes

Proposed questions for discussion:

 What infrastructure is most important for Metro Vancouver to prioritize for public investment?

 How should the private sector be involved in infrastructure development for the region?



### 4.1 ZERO WASTE COMMITTEE UPDATES - JULY

- Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw
- Disposal Ban Program update
- Proposed new commercial organics fee
- 2023 waste composition data
- Manager's Report
  - Expanded reuse opportunities at North Shore Recycling and Waste Centre
  - RFQ posted publically for District Energy piping supply and installation



### **INFORMATION ITEMS**

5.1 Regional Waste Flows – June

5.2 Industry Advisory Committee 2024 Work Plan

### **5.2 2024 WORK PLAN HIGHLIGHTS**

Upcoming topics for discussion:

### July

Long term disposal planning and capital plan

### September

Generator levy and competition

### **October**

Solid waste management plan Idea Generation

### OCTOBER MEETING FORMAT

Idea generation – solid waste management plan update

- Opportunity to engage on the idea generation phase
  - Review discussion questions
  - Address topics that may have been missed during small group discussions

Poll: Would you prefer the October meeting be held <u>virtually</u> or <u>in person</u>?



Thank you