



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

Tuesday, February 6, 2024

2:00 pm – 4:00 pm

A G E N D A

1. AGENDA

1.1 February 6, 2024 Meeting Agenda

2. MINUTES

2.1 January 9, 2024 Meeting Minutes

3. DRAFT 2024 IAC WORK PLAN – VOTING ITEM (See information item 7.2)

4. REPORTS

4.1 Concrete and Asphalt Recycling Opportunities Review

For input/feedback

Designated Speakers: Paul Henderson, Metro Vancouver and Eva Robertson, Morrison Hershfield

3.2 Residuals Management Options Review

For input/feedback

Designated Speakers: Paul Henderson, Metro Vancouver, Todd Baker and Curtis Jung, Morrison Hershfield

5. NEXT STEPS

5.1 2024 IAC Membership Call for Submissions – Submission date February 16, 2024

For information

Designated Speaker: Lori Bryan, Industry Advisory Committee Co-Chair

5.2 Waste-to-Energy Facility Tour Opportunity

For input/feedback

Designated Speaker: Lori Bryan, Industry Advisory Committee Co-Chair

6. OTHER BUSINESS

6.1 Zero Waste Committee Updates

For information

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

7. INFORMATION ITEMS

7.1 IAC January 2024 Meeting – Small Groups Discussion Feedback Summary

7.2 2024 Draft Work Plan

7.3 Regional Waste Flows

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 | Hankins, Grant – Minibins.com Canada | Millman, David - Waste Management of Canada |
| Ahmedi, Taufiq – Maple Leaf Disposal | Johnson, Gord - Empower Environmental/ Northstar | Moucachen, Maya - Merlin Plastics |
| Berkhof, Edwin – Evergen Infrastructure Corp. | JansenVandoorn, Josh - Anaconda Systems Ltd. | Plotnikoff, Terryl - Canadian Mattress Recycling Inc. |
| Bryan, Lori - Waste Management Association of BC | Kaminski, Jamie - HSR Zero Waste | Polak, Mary – Waste Connections of Canada |
| Carrusca, Ken - Cement Association of Canada | Kawakami, Sean - Convertus Group | Prasad, Shad - Cascade Recovery + Shore, Cynthia - Republic Services |
| Collins, James - Tymac Launch Service Ltd. | Kiani, Aiden - Lock-Block Ltd. | Sigmund, Sandy – Encorp Pacific Canada |
| Coutts, Cindy – Encorp Pacific Canada | Koehn, Leanne – Ridge Meadows Recycling Society | Stefenelli, Nicole - Urban Impact Recycling Inc. |
| Crawford, Jeremy – Waste Control Services | Lannin, Mike – Super Save Group | Vargas, Pinky – Republic Services |
| Dietrich, Christian – Ecowaste Industries | Lotzkar, Jacqueline - Pacific Metals Recycling Inc. | Victor, Nicole - Covanta |
| | Mallari, Achilles - Sierra Waste Services Ltd. | Zarbl, Michael - Major Appliances Recycling Roundtable |
| | McAra, Matthew – GFL | |
| | McRae, Ralph – Revolution | |

Metro Vancouver and City of Vancouver Staff:

| | | |
|--------------------------------------|------------------------------------|------------------------------------|
| Allan, Chris – Metro Vancouver | Joy, Samantha - Metro Vancouver | Mizan, Zeenia – Metro Vancouver |
| Belanger, Lynn – City of Vancouver | Henderson, Paul – Metro Vancouver | Underwood, Chris – Metro Vancouver |
| Doorn, Nanette van – Metro Vancouver | Liu, Stephanie – Metro Vancouver | Vidler, Lynne – Metro Vancouver |
| | McDermott, Jon – City of 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, January 9, 2024, via Zoom Video Conference.

MEMBERS PRESENT:

| | |
|---|---|
| Craig Hodge, Director, Metro Vancouver Board of Directors (Co-Chair) | Aiden Kiani, Lock-Block Ltd. |
| Lori Bryan, Waste Management Assoc. of BC (Co-Chair) | Leanne Koehn, Ridge Meadows Recycling Society |
| Izzie Abrams, Waste Connections of Canada | Mike Lannin, Super Save Group |
| Edwin Berkhof, Evergen Infrastructure Corp | Achilles Mallari, Sierra Waste Services Ltd. |
| Ken Carrusca, Cement Association of Canada | Matthew McAra, GFL Environmental Inc. |
| Jeremy Crawford, Waste Control Services Inc. | David Millman, Waste Management Association of Canada |
| Christian Dietrich, Ecowaste Industries | Maya Moucachen, Merlin Plastics |
| Grant Hankins, Minibins.com Ltd. | Dimitri Pantazopoulos (Alternate), Waste Connections of Canada |
| Gord Johnson, Empower Environmental/Northstar | Shad Prasad, Cascade Recovery+ |
| Josh Jansen Vandoorn, Anaconda Systems Ltd. | Sandy Sigmund, Encorp Pacific Canada |
| Jamie Kaminski, HSR Zero Waste | Nicole Stefenelli, Urban Impact Recycling |
| | Pinky Vargas, Republic Services |
| | Nicole Victor, Covanta |

MEMBERS ABSENT

| | |
|--|---|
| Taufiq Ahmadi, Maple Leave Disposal | Ralph McRae, Revolution |
| James Collins, Tymac Launch Service Ltd. | Terryl Plotnikoff, Canadian Mattress Recycling Inc. |
| Sean Kawakami, Convertus Canada Ltd. | Michael Zarbl, Major Appliances Recycling Roundtable |
| Jacqueline Lotzkar, Pacific Metals Recycling Inc. | |

METRO VANCOUVER (MV) AND CITY OF VANCOUVER STAFF:

Brooke Atkinson, Senior Engagement Specialist, Solid Waste Services, Metro Vancouver
Lynn Belanger, Manager, Transfer and Landfill Operations, City of Vancouver
Nanette van Doorn, Communications and Engagement Consultant
Paul Henderson, General Manager, Solid Waste Services, Metro Vancouver
Samantha Joy, Engagement Specialist, Solid Waste Services, Metro Vancouver
Stephanie Liu, Program Manager, Community Engagement, Solid Waste Services, Metro Vancouver
Terry Fulton, Senior Project Engineer, Solid Waste Services, Metro Vancouver
Zeenia Mizan, Program Assistant, Solid Waste Services

PREPARATION OF MINUTES: Justine Wiklo, Raincoast Ventures Ltd.

Solid Waste and Recycling Industry Advisory Committee Meeting

January 9, 2024

2:00 PM – 4:00 PM

Zoom

Agenda

1. Agenda
 - 1.1. January 9, 2024 Meeting Agenda
2. Minutes
 - 2.1. November 7, 2023 Meeting Minutes
3. Reports
 - 3.1. Vancouver Landfill
4. Industry Advisory Committee 2024 Key Topics
5. Next Steps
 - 5.1. 2024 IAC Call for Membership Submissions
6. Other Business
 - 6.1. Zero Waste Committee Updates
7. Information Items
 - 7.1. Regional Waste Flows

MEETING MINUTES

Co-Chair Craig Hodge called the meeting to order at 2:01 p.m. and welcomed attendees to the Solid Waste and Recycling Industry Advisory Committee (Industry 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.

1. AGENDA

1.1 January 9, 2024, Meeting Agenda

Co-Chair Hodge reviewed the January 9, 2024 meeting agenda, and advised that the agenda was posted on the Industry Advisory Committee webpage.

2. MINUTES

2.1 November 7, 2023, Meeting Minutes

Co-Chair Hodge called for any additions or changes to the meeting Minutes of November 7, 2023.

There were no changes or additions to the meeting Minutes of November 7, 2023.

3. REPORTS

3.1 Vancouver Landfill

Paul Henderson, General Manager, Solid Waste Services, Metro Vancouver, provided an overview of the Vancouver Landfill, noting the following highlights:

- The City of Vancouver owns and operates the Vancouver Landfill, located in the City of Delta
- The landfill has been in operation since 1966 and is an integral part of the regional solid waste system
- In 2022, residential, commercial, and institutional waste amounted to 1,001,881 tonnes
 - 638,104 tonnes were directed to the landfill
 - 218,260 tonnes were directed to waste-to-energy facilities
 - 145,517 tonnes were directed to contingency disposal
- In addition to the 638,104 tonnes of residential and commercial waste, additional materials such as construction and demolition waste, bottom ash, treatment plant residuals, and marine debris brought the total to 734,396 tonnes in 2022
- The Vancouver Landfill has a Operational Certificate approved capacity of 750,000 tonnes per year
- The total property area of the Vancouver Landfill is 320 Ha

- The following agreements are in place:
 - Tri-partite agreement between the City of Vancouver, Metro Vancouver, and the City of Delta, with a cost-sharing and revenue-sharing framework, expiring in 2037
 - Vancouver-Delta Agreement, which outlines the benefits to the City of Delta from the City of Vancouver, expiring the earlier of 2037, or at 20 million tonnes since 1997
- It is anticipated, based on current fill rates, that the Vancouver Landfill will reach 20 million tonnes in approximately 2030.
- Reducing waste will result in 20 million tonnes being reached later than 2030
- Following expiry of Vancouver Landfill agreements, will continue to manage residual disposal. A short-term option could be increased contingency landfill disposal.
- A study is underway to examine longer-term options on how residual garbage can be managed.
- Across North America, strategies employed following local landfill closure include options for local processing or sending waste to a remote landfill.

ACTION: A draft scope of a study looking at options for managing residual garbage will be presented at a future Industry Advisory Committee meeting.

4. **INDUSTRY ADVISORY COMMITTEE 2024 KEY TOPICS**

Co-Chair Bryan introduced a list of discussion topics that emerged from members' discussion at the November meeting and noted that the Committee would split into virtual breakout groups to discuss and provide feedback on additional topics of interest and the approach for delivery in Industry Advisory Committee meetings.

Committee members were asked to consider the following in their breakout groups:

- Review list of possible key topics for 2024:
 - Does this list represent the topics you want to focus on for 2024?
 - What are your highest priorities?
 - Is anything missing?
- Share ideas for how IAC can discuss these topics. Possible approaches include:
 - Guest presenters
 - Member presentations
 - Roundtable presentations
 - Small group/breakout sessions
 - Working groups/sub-committees.

Discussion Group 1 reported the following discussion highlights:

- Key topics included recycled product markets, concrete recycling, and reducing construction and demolition waste
- While recycling of demolition waste is important, demolition should be avoided more often

- Proper labelling around recycling is also important to ensure that recyclables are being brought back into the economy
- The priority for re-use should be expanded to all areas of waste, and incorporated into policy
- More public engagement is needed to educate on the need for compost facilities in Metro Vancouver to reduce public concerns over new facilities opening
- Presentations and guest presenters could be a good approach to working on these topics
- Interested in smaller breakout groups, or working groups for specific issues

Discussion Group 2 reported the following discussion highlights:

- Topics on the list were comprehensive and covered the interests of the group
- Based on the presentation on the Vancouver Landfill, it will be critical to look at the Vancouver Landfill and capacity, moving materials from waste to organics and recycling
- Member-driven approaches should be prioritized
- Presentations are needed to give the Industry Advisory Committee information, which can then lead to a working group or sub-committee for further discussion
- Agendas should be posted with enough time in advance for members to review the information
- There needs to be a clear focus from the start on the goal of each discussion and/or report

Discussion Group 3 reported the following discussion highlights:

- There are three overarching topics identified as extremely important:
 - The Vancouver Landfill closure and replacement strategy plan:
 - The Industry Advisory Committee needs to understand the issue and be involved at an early stage in the process, as there is a lot of expertise and knowledge that can support the strategy and plan
 - The overall infrastructure in the disposal, recycling, and recovery network, and long-term strategies to handle materials
 - Good policy and regulation that allows the industry to invest in and build infrastructure.

Discussion Group 4 reported the following discussion highlights:

- A significant issue is the solid waste management plan update, particularly with the landfill reaching capacity, many of the solutions can take 10-15 years to implement and will need to be addressed sooner rather than later
- Construction and demolition waste management strategies
- Insufficient organics processing capacity is a major consideration. Insufficient capacity leads to disposal of organics which compounds the issue of disposal capacity
- Need standardization of bylaws for organics processing across different municipalities.
- Incentives for producers to reduce packaging
- The list of topics needs to be narrowed down to ensure the priority topics can be discussed in adequate detail.

Paul Henderson enquired what approaches for discussion topics had been identified in Groups 3 and 4, and the following comments were offered:

- Member and guest presentations and roundtables to bring expertise to benefit Metro Vancouver
- There is uncertainty if sub-committees would be effective, but there is value in having discussions within the group rather than bringing in more consultants and external voices.

Co-Chair Bryan advised that the listed topics would be prioritized based on the discussion groups.

ACTION: A draft 2024 work plan will be presented at the next Industry Advisory Committee meeting in February 2024.

5. NEXT STEPS

5.1 2024 IAC Call for Membership Submissions

Co-Chair Hodge advised that the call for membership submissions would be sent out by email to Industry Advisory Committee members and contacts in the waste and recycling industry at the end of January 2024. Those interested in being part of the 2024 Solid Waste and Recycling Industry Advisory Committee must complete an online form (Statement of Interest) to continue as a member of the Committee. The first meeting of the 2024 Industry Advisory Committee will be on March 5, 2024.

6. OTHER BUSINESS

6.1 Zero Waste Committee Updates

Paul Henderson provided an update from the Zero Waste Committee, noting the following highlights:

- The Zero Waste Committee will meet on January 11, 2024 — the meeting agenda has been posted online
- The agenda includes the Zero Waste Committee Work Plan, which is in alignment with the budget report from October 2023
- The executive summary of this Work Plan has the following key items to be considered:
 - The solid waste management plan update is in the idea generation phase. The draft vision and guiding principles will go to the Zero Waste Committee in the spring.
 - With the addition of recycling depots in North Surrey and Langley, there will need to be engagement with the Industry Advisory Committee and other industry stakeholders in the design and construction planning for the depots
 - The Reuse Days pilot with Urban Repurpose was a success, with as much as 300 kilograms per hour of materials for reuse being dropped off at pop-up events
 - Alternative fuel pilot is being planned for small-load waste
 - The District Energy System will increase the energy efficiency of the Waste-to-Energy Facility by providing heat and hot water communities in Vancouver and Burnaby
 - A carbon capture feasibility study is beginning for the Waste-to-Energy Facility
 - Enhancements to the School Tours program are underway

7. INFORMATION ITEMS

7.1 Regional Waste Flows

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

8. ADJOURNMENT

Co-Chair Hodge 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 February 6, 2024.

The Solid Waste and Recycling Industry Advisory Committee meeting adjourned at 3:02 p.m.

DRAFT



MORRISON HERSHFIELD

Photo by Todd Baker, MH

Concrete and Asphalt Recycling Opportunities

Metro Vancouver's Solid Waste Management Plan Update

Presentation to IAC on February 6, 2024



Meeting outline

- Purpose / background
- Study objectives
- Scope of work



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SERVICES AND SOLUTIONS FOR A LIVABLE REGION

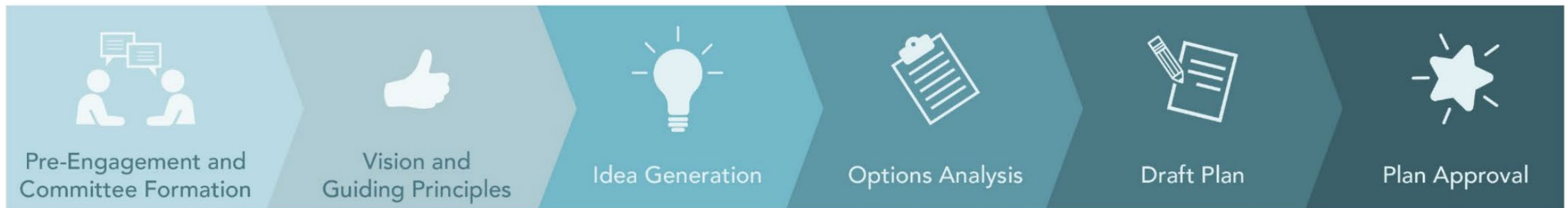
Purpose of presentation

- Review draft scope of concrete and asphalt recycling options assessment (the study)
- Obtain feedback from this committee on:
 - The draft scope
 - Committee participation

Background - process

- Updated solid waste management plan (SWMP)
- Metro Vancouver has set out a multi-phase process
- A Consultant team was hired to support

We are here



Study objectives

- Identify options to reduce the “downcycling” and barriers
- Evaluate new recycling opportunities:
 - Recycled aggregate concrete (RAC)
 - Recycled asphalt pavement (RAP)
- Determine best practices and leading-edge opportunities
- Assess business case and related risks



Study background

- Approximately 1.16 million tonnes recycled in the region in 2021
- Approximately 98% of concrete and asphalt generated was recycled in 2021

Proposed tasks

1. Literature review:

- Local regulatory & contractual framework
- Current status in Metro Vancouver
- Identify best practices & experience in other jurisdictions



2. Stakeholder interviews

3. Stakeholder workshop

4. Business case development and reporting

Literature review

- Review the local regulatory and contractual framework to identify gaps and opportunities
 - Include local bylaws, MMCD design guidelines, design handbooks, member jurisdiction subdivision servicing guidelines, Transportation Association of Canada Best Practices Guide, and Ministry of Transportation Standard Specifications for Highway Construction
- Research and identify best practices globally



Review current status

- Document review
 - Review existing documents, reports, current policies and waste quantities to identify challenges, opportunities, and gaps
- Interview stakeholders (max. 20)
 - Include leading experts such as BC Road Builders; member jurisdiction staff; processors; equipment suppliers; construction contractors; consultants; and leading jurisdictions

Identify best practices

- Comprehensive review of the best practices and experiences in other jurisdictions
- Assess applicability
 - Benefits, drawbacks, and challenges
- Assess current practices and identify ways that they can be improved

Workshop

- The objective of the workshop is to identify:
 - Feasible opportunities
 - Present barriers / challenges
 - Options of how to overcome barriers / challenges
- Stakeholders from industry, committees, and member municipalities will be invited to participate



Business case

- Assess financial and environmental impacts of identified opportunities
- Assess risks
- Develop final business case



IAC Member Involvement

- Potential IAC involvement:
 - Feedback on scope
 - Interviews
 - Workshop
 - Findings review



Thank you!

Contact:

Allen Jensen, P. Eng., AScT
Senior Project Engineer, Metro Vancouver
allen.jensen@metrovancover.org

Presented by:
Eva Robertsson, P.Eng.
Environmental Engineer, Morrison Hershfield





MORRISON HERSHFIELD

Photo by Todd Baker, MH

Residual Waste Management Options

Metro Vancouver's Solid Waste Management Plan Update

Presentation to IAC February 6, 2024



Meeting outline

- Introductions
- Purpose / background
- Study objectives
- Scope of work
- Feedback



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SERVICES AND SOLUTIONS FOR A LIVABLE REGION

Purpose of presentation

- Review draft scope of residuals management options review (the study)
- Obtain feedback from this committee on scope
- Receive feedback on committee participation throughout the study

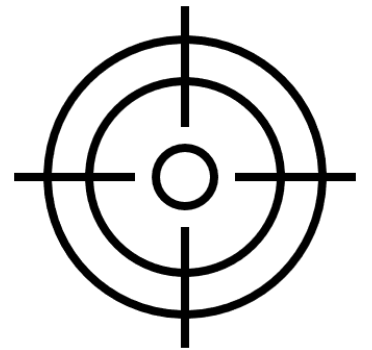
Study objectives - residual waste

- **Residual waste definition**

- Waste remaining (after the 3Rs) from the residential and commercial / institutional sectors
- To be disposed or processed further for energy / material recovery

- **Study objective**

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



Background – residual waste

- Approximately 1,000,000 tonnes of waste per year from residential and commercial / institutional sectors requires disposal
- Primary disposal facilities are:
 - Waste-to-Energy Facility
 - Vancouver Landfill
 - Remote landfills(3 landfills)
- Per capita disposal rate has been halved since 1994

Proposed tasks

1. Literature review
2. Review options
3. Historic case studies (10)
4. Current case studies (10)
5. Considerations for approaches
6. Potential criteria for evaluating options
7. Reporting



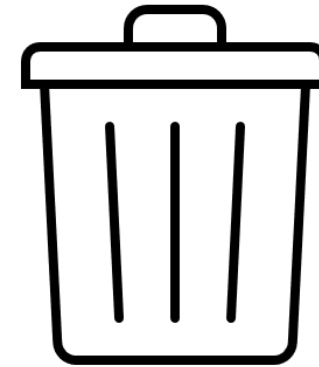
Literature review

- Review of international best practices
- Approaches / trends in similar regions
- Define economic / regulatory drivers in various jurisdictions
- What is and is not working well?
- Review possible approaches / systems



Review options

- Review method of managing garbage in comparable jurisdictions around the world
 - Objectives and goals
 - Key drivers
 - Breakdown of wastes
 - Methods of managing wastes
 - Progress against goals
- If available, compile information on:
 - Costs
 - Risks
 - GHG emissions
 - Pros and cons



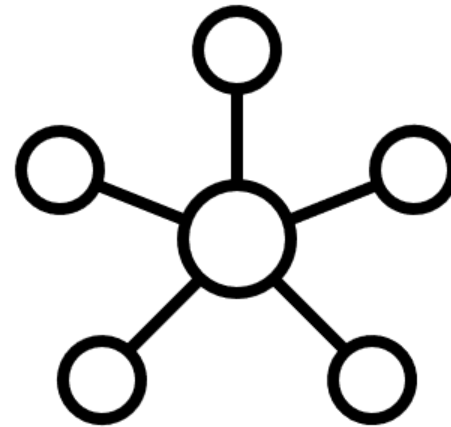
Case studies

- Prepare up to twenty (20) case studies on non-traditional residual management technologies
 - Historical technology examples (10)
 - Current technology examples (10)
- Summarize:
 - Background
 - Key drivers
 - Technology type / setting
 - Regulatory environment
 - Goals / objectives
 - Costs
 - Risk, pros and cons
 - Success / failure



Considerations for approaches

- Define the overall context, goals, and considerations
 - Consider provincial guidelines including waste-to-energy requirements
- Discuss main alternatives
- Develop summary of key considerations for approaches:
 - Capital / operating costs
 - Key drivers
 - Revenues
 - Environmental impacts
 - Transportation
 - Alignment with goals
 - Barriers, challenges, risks
 - Siting constraints



Identify evaluation criteria

- Develop criteria for future evaluation
- Consider vision, guiding principles, goals, strategies, targets and performance metrics
- Likely criteria categories are:
 - Social
 - Environmental
 - Economic
- Key considerations for new / emerging technologies
 - Potential risks
 - Technology readiness



IAC Member Involvement

- Potential IAC involvement:
 - Feedback on scope
 - Interviews if desired
 - Participation in focused advisory committee if desired
 - Findings review



Thank you!

Contact:

Allen Jensen, P. Eng., AScT
Senior Project Engineer, Metro Vancouver
allen.jensen@metrovancover.org

Presented by:

Todd Baker, P.Eng.
Senior Engineer, Morrison Hershfield

Curtis Jung, P. Eng
Senior Engineer, Morrison Hershfield



January Industry Advisory Committee Small Group Discussion Feedback Summary

| Proposed Key topics | Results | Nanette's Breakout Room | Terry's Breakout Room | Stephanie's Breakout Room | Brooke's Breakout Room |
|--|----------------|--------------------------------|------------------------------|----------------------------------|-------------------------------|
| Circular Economy / 3Rs Study / Share/Reuse/Repair ideas | 1 | High | Medium | High | |
| Competition/Role of Public and Private Sectors in Provision of Solid Waste Services/Advancing Zero Waste and the Circular Economy | 2.5 | | High | High | |
| Concrete and Asphalt Recycling Opportunities | 3 | High | | Medium | |
| Construction and Demolition Waste Management and Capacity | 1 | High | High | Medium | |
| Metro Vancouver Procurement Processes | 3 | | Medium | | High |
| Organics Processing | 2.5 | High | | High | |
| Recycled Product Markets | 2 | High | Medium | Medium | |
| Recycling Statistics | 3 | | High | Medium | |
| Residuals Management | 2 | | Medium | Medium | High |
| New suggestions | | Nanette's Breakout Room | Terry's Breakout Room | Stephanie's Breakout Room | Brooke's Breakout Room |
| Framework for future recycling facilities, we need to add recycling infrastructure, leases and land availability, what does the region need, a Metro Vancouver plan. | 4 | High | | | |
| Public education requirements – how are industry and municipalities doing this and who is taking it on | 1 | Medium | | High | High |
| Long term Disposal Plan for Metro Vancouver - Vancouver Landfill | 1 | | Medium | High | High |
| Design for recyclability and repairability | 4 | Medium | | | |
| Methods | Results | Nanette's Breakout Room | Terry's Breakout Room | Stephanie's Breakout Room | Brooke's Breakout Room |
| Guest Presenters | 1 | x | x | x | |
| Member Presentations | 1 | x | x | x | |
| Roundtable Discussions | 3 | | | | x |
| Small Group/ Breakout sessions | 2 | x | | x | |
| Working Groups/Sub-committees | | | | | |

1 - High interest

2 - Medium-high interest

2.5 - Medium interest

3 - Medium-low interest

4 - Low interest

| General comments | | Nanette's Breakout Room | Terry's Breakout Room | Stephanie's Breakout Room | Brooke's Breakout Room |
|--|--|------------------------------------|----------------------------------|--------------------------------------|-----------------------------------|
| Continue to post agendas with enough time to digest the information | | | x | | |
| Member driven should be the focus | | | x | | |
| Subcommittees are effective at focusing the discussion | | | x | | |
| Statements and discussion in advance of presentations - "What are we looking to achieve?" | | | x | | |
| Plastics, packaging; incentives for manufacturers to limit packaging and to use recyclable packaging | | | | x | |
| How actions locally intertwine with federal and provincial regulations | | | | x | |
| Need to drive some local action plans | | | | x | |
| Wish to discuss proposed MV bylaw changes | | | | x | |
| Licences issued by MV creates more competition for facilities receiving material, while the amount of material is not increasing – oversaturating the market with new competitors and siphoning businesses away from existing facilities | | | | x | |
| MV dictates whether private sector can get into this business | | | | x | |
| Regulation prevents investment in private facilities | | | | x | |
| Recycling statistics have to be accurate | | | | x | |
| Close the loop - report back to the committee on what actions have been taken after feedback is received | | | | x | |
| Start with presenters and presentation and then see if there is a need for further discussion | | | x | | |
| Preference for the committee to just be able to tackle these priority issue together through the main meetings – roll up our sleeves and work with the IAC and MV staff with the expertise we have at the table | | | | | x |
| Education around where the waste is going and how it will be managed once the landfill closes is needed for the public | | | | | x |
| Diversions policies – what kind of support is provided in the policies and how can the industry implement those policies | | | | | x |
| Reducing food waste and processing of organics | | x | | | |
| Like to work on proper labelling for plastics | | x | | | |
| Small groups allow for more people to speak up | | x | | | |

SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE 2024 WORK PLAN

Report Date: February 6, 2024

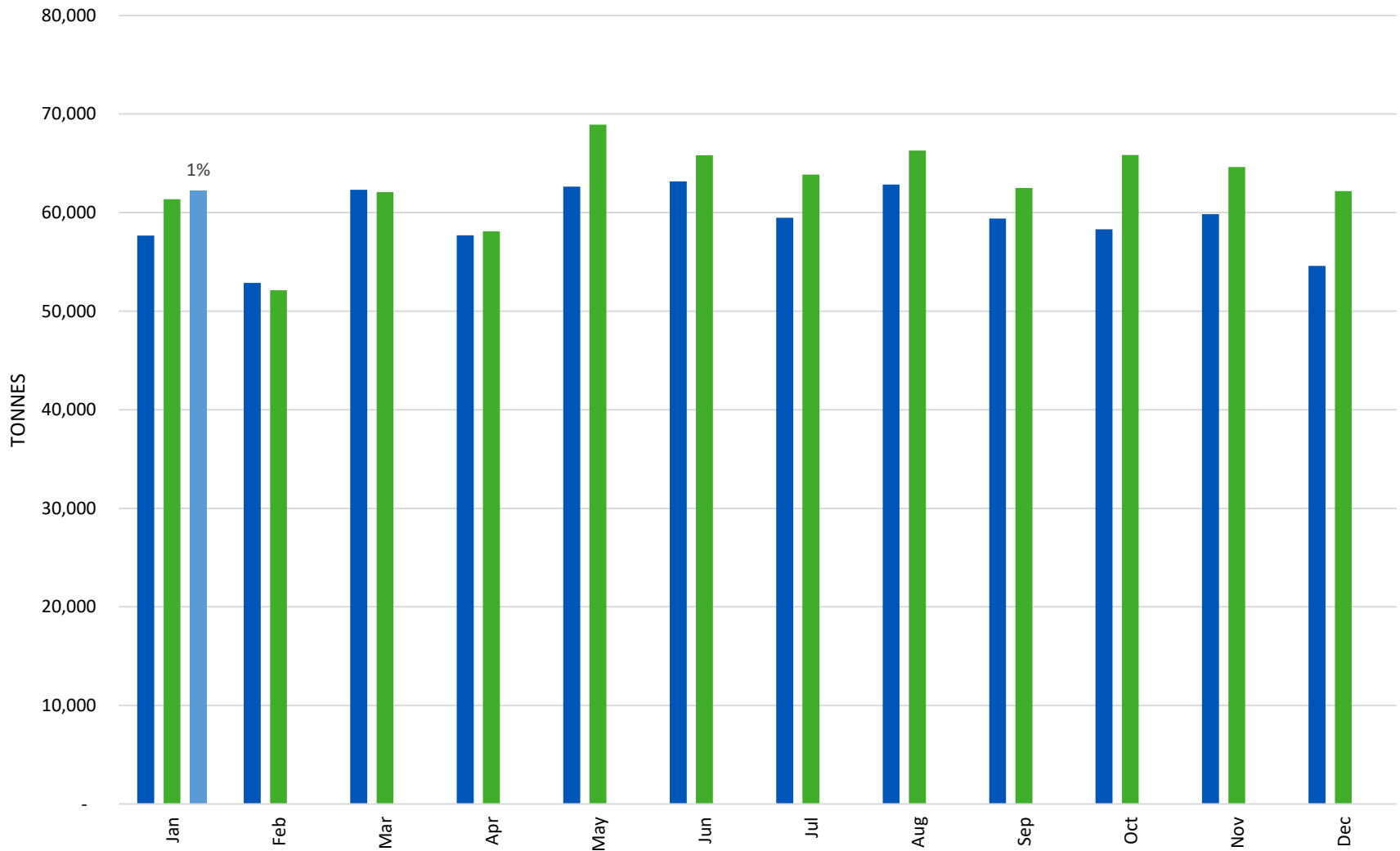
| Topic / Item | Status | Approach |
|--|-------------|------------------------------------|
| Call for Submissions for 2024 IAC Membership | In-Progress | Plenary |
| Circular Economy/ Share/Reuse/Repair ideas | Pending | Small group discussion |
| Co-Chair Election (Nominations in March) | April | Plenary |
| Competition/Role of public and private sector in provision of solid waste services/advancing zero waste and the circular economy/Long term disposal planning | Pending | Working sub-group meetings |
| Concrete and Asphalt Recycling Opportunities Review | In-Progress | Plenary |
| Construction and Demolition Waste Management and Capacity | Pending | Small group discussion (in-person) |
| Public Education – role of public and private entities | Pending | TBD |
| Recycling capacity and product markets (including organics) | Pending | Small group discussion |
| Recycling Statistics/Metrics | Pending | Plenary |
| Residuals Management Options Review – Draft Study Scope | In-Progress | Plenary |
| Solid Waste Management Plan Update – Guiding Principles Report Back | Pending | Plenary |
| Solid Waste Management Plan Update – Idea Generation: Problem Statement Review | Pending | Small group discussion (in-person) |
| Working Sub-Group Report Back | Pending | Plenary |

Metro Vancouver Waste Quantities*

2022 - 2024**

■ 2022 ■ 2023 ■ 2024

YTD % Change: 1%



**Data reconciled to Nov 2023

*Metro Vancouver's Six Recycling and Waste Centres & the Waste-to-Energy Facility

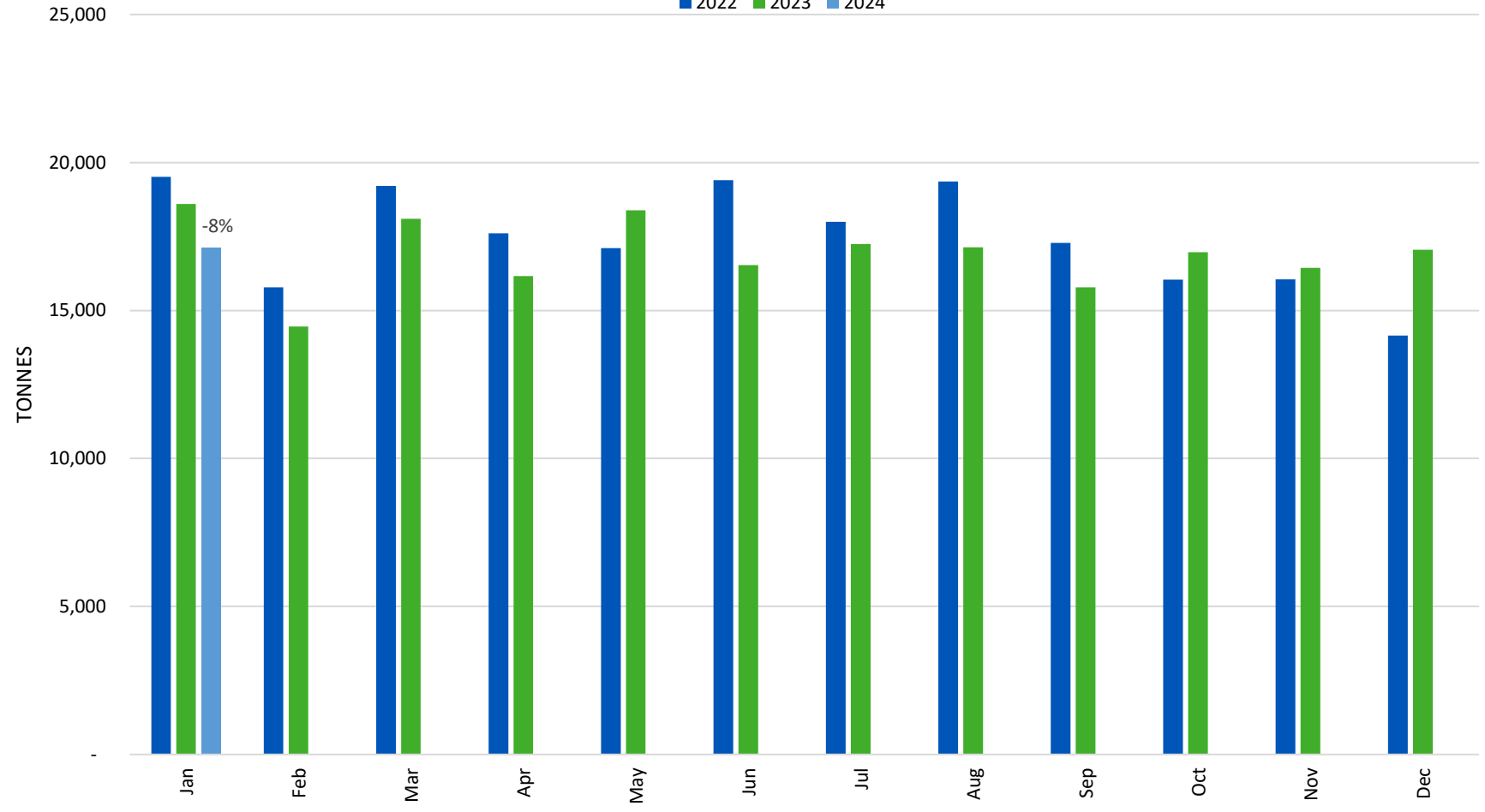
City of Vancouver Waste Quantities*

2022 - 2024

(Demo garbage not included)

YTD % Change: -8%

■ 2022 ■ 2023 ■ 2024



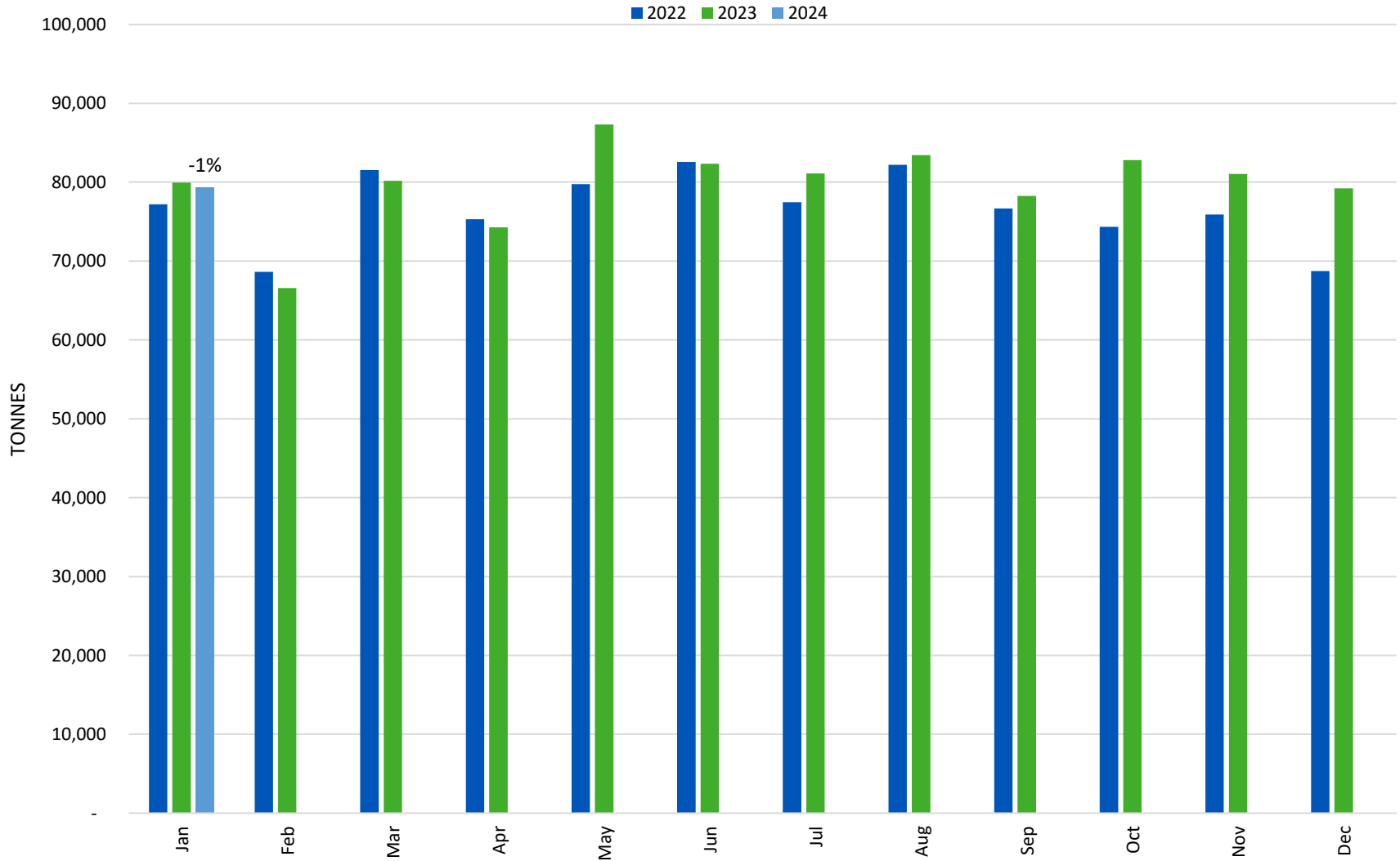
*Vancouver Landfill & Vancouver South Transfer Station

Metro Vancouver and City of Vancouver Waste Quantities

2022 - 2024*

(Demo garbage not included)

YTD % Change: -1%



*Metro Vancouver data reconciled to Nov 2023