

**METRO VANCOUVER REGIONAL DISTRICT
ZERO WASTE COMMITTEE**

REGULAR MEETING

Friday, May 13, 2022

9:15 a.m.

**Meeting conducted in person/electronically pursuant to the Procedure Bylaw
28th Floor Boardroom, 4515 Central Boulevard, Burnaby, British Columbia**

Webstream available at <http://www.metrovancouver.org>

A G E N D A¹

1. ADOPTION OF THE AGENDA

1.1 May 13, 2022 Regular Meeting Agenda

That the Zero Waste Committee adopt the agenda for its regular meeting scheduled for May 13, 2022 as circulated.

2. ADOPTION OF THE MINUTES

2.1 April 8, 2022 Regular Meeting Minutes

That the Zero Waste Committee adopt the minutes of its regular meeting held April 8, 2022 as circulated.

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3. DELEGATIONS

4. INVITED PRESENTATIONS

5. REPORTS FROM COMMITTEE OR STAFF

5.1 2021 Waste Composition Data

That the Zero Waste Committee receive for information the report dated May 5, 2022, titled "2021 Waste Composition Data".

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5.2 Single-Use Item Reduction Regulatory Update

That the Zero Waste Committee receive for information the report dated May 4, 2022, titled "Single-Use Item Reduction Regulatory Update".

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¹ Note: Recommendation is shown under each item, where applicable.

5.3 2022 Food Scraps Recycling “Food Scraps Aren’t Garbage” Results *pg. 20*
That the Zero Waste Committee receive for information the report dated May 5, 2022, titled “2022 Food Scraps Recycling “Food Scraps Aren’t Garbage” Results.”

5.4 Manager’s Report *pg. 30*
That the Zero Waste Committee receive for information the report dated May 5, 2022, titled “Manager’s Report”.

6. INFORMATION ITEMS

7. OTHER BUSINESS

8. BUSINESS ARISING FROM DELEGATIONS

9. RESOLUTION TO CLOSE MEETING

Note: The Committee must state by resolution the basis under section 90 of the Community Charter on which the meeting is being closed. If a member wishes to add an item, the basis must be included below.

10. ADJOURNMENT/CONCLUSION

That the Zero Waste Committee adjourn/conclude its regular meeting of May 13, 2022.

Membership:

Froese, Jack (C) – Langley Township
Hodge, Craig (VC) – Coquitlam
Calendino, Pietro – Burnaby
Elford, Doug – Surrey

Fry, Pete – Vancouver
Little, Mike – North Vancouver District
Martin, Gayle – Langley City
McDonald, Bruce – Delta

Morden, Mike – Maple Ridge
Steves, Harold – Richmond
Vagramov, Rob – Port Moody

**METRO VANCOUVER REGIONAL DISTRICT
ZERO WASTE COMMITTEE**

Minutes of the Regular Meeting of the Metro Vancouver Regional District (MVRD) Zero Waste Committee held at 9:15 a.m. on Friday, April 8, 2022 in the 28th Floor Boardroom, 4515 Central Boulevard, Burnaby, British Columbia.

MEMBERS PRESENT:

Chair, Mayor Jack Froese, Langley Township
 Vice Chair, Councillor Craig Hodge*, Coquitlam
 Councillor Pietro Calendino*, Burnaby
 Councillor Doug Elford*, Surrey (arrived at 9:17 a.m.)
 Councillor Pete Fry*, Vancouver
 Mayor Mike Little*, North Vancouver District
 Councillor Gayle Martin*, Langley City
 Councillor Bruce McDonald*, Delta
 Mayor Mike Morden*, Maple Ridge
 Councillor Harold Steves*, Richmond
 Mayor Rob Vagramov*, Port Moody (arrived at 9:17 a.m.)

MEMBERS ABSENT:

None.

STAFF PRESENT:

Paul Henderson, General Manager, Solid Waste Services
 Jerry W. Dobrovlny, Chief Administrative Officer
 Natalia Melnikov, Legislative Services Coordinator, Board and Information Services

1. ADOPTION OF THE AGENDA

1.1 April 8, 2022 Regular Meeting Agenda

It was MOVED and SECONDED

That the Zero Waste Committee adopt the agenda for its regular meeting scheduled for April 8, 2022 as circulated.

CARRIED

9:17 a.m. Mayor Vagramov and Councillor Elford arrived at the meeting.

*denotes electronic meeting participation as authorized by Section 3.6.2 of the *Procedure Bylaw*

2. ADOPTION OF THE MINUTES

2.1 February 11, 2022 Regular Meeting Minutes

It was MOVED and SECONDED

That the Zero Waste Committee adopt the minutes of its regular meeting held February 11, 2022 as circulated.

CARRIED

3. DELEGATIONS

No items presented.

4. INVITED PRESENTATIONS

No items presented.

5. REPORTS FROM COMMITTEE OR STAFF

5.1 Award of Contract Resulting from Request for Proposal No. 21-517: Operation and Maintenance of the Central Surrey Recycling and Waste Centre

Report dated March 30, 2022, from Roy Moulder, Director, Procurement, and Chris Allan, Director, Solid Waste Operations, advising the GVS&DD Board of the results of Request for Proposal No. 21-517: Operation and Maintenance of the Central Surrey Recycling and Waste Centre, and seeking the GVS&DD Board's approval of award of an approximate 8.5-year term contract expiring on December 31, 2030 in the amount of up to \$38,700,000 (exclusive of taxes) to Halton Recycling Ltd., doing business as Emterra Environmental.

It was MOVED and SECONDED

That the GVS&DD Board:

- a) approve award of a contract in the amount of up to \$38,700,000 (exclusive of taxes) to Halton Recycling Ltd. (doing business as Emterra Environmental), resulting from Request for Proposal No. 21-517: Operation and Maintenance of the Central Surrey Recycling and Waste Centre, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

CARRIED

5.2 Amendment to Existing Sea to Sky Composting Inc. Contract to Process Yard Trimmings Received at the Central Surrey Recycling and Waste Centre

Report dated March 31, 2022, from Roy Moulder, Director, Procurement, and Chris Allan, Director, Solid Waste Operations, seeking the GVS&DD Board's approval of an amendment to Contract 21-215 Organics Management awarded to Sea to Sky in the amount of \$828,000 (exclusive of taxes) to process yard trimmings received at the Central Surrey Recycling and Waste Centre.

It was MOVED and SECONDED

That the GVS&DD Board:

- a) approve an amendment to Contract 21-215 Organics Management awarded to Sea to Sky Composting Inc. in the amount of \$828,000 (exclusive of taxes) for a total contract value of \$5,042,520 to process yard trimmings received at the Central Surrey Recycling and Waste Centre, effective from facility opening to the existing contract expiry on December 31, 2025; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the amendment should proceed.

CARRIED

5.3 GVS&DD Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 354, 2022

Report dated March 31, 2022, from Allen Jensen, Senior Project Engineer, Solid Waste Services, seeking the GVS&DD Board's approval to amend the Tipping Fee Bylaw.

It was MOVED and SECONDED

That the GVS&DD Board:

- a) approve the following amendments to the Tipping Fee Bylaw effective June 1, 2022:
 - i. remove references to the Coquitlam Recycling and Waste Centre;
 - ii. set the minimum fee for Central Surrey Recycling and Waste Centre at \$15 per load including transaction fee; and
 - iii. establish a rate of \$130 per tonne for residuals from construction and demolition waste processing facilities.
- b) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 354, 2022*; and
- c) pass and finally adopt *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 354, 2022*.

CARRIED

5.4 Solid Waste Services Capital Program Expenditure Update as of December 31, 2021

Report dated March 31, 2022, from Lynne Vidler, Lead Senior Engineer, Solid Waste Services, providing the Zero Waste Committee with a status update of the Solid Waste Services capital program and financial performance to December 31, 2021.

It was MOVED and SECONDED

That the Zero Waste Committee receive for information the report dated March 31, 2021, titled "Solid Waste Services Capital Program Expenditure Update as of December 31, 2021".

CARRIED

5.5 Appointment of Solid Waste Manager, Deputy Solid Waste Manager, and Enforcement Officers

Report dated March 15, 2022, from Michelle Jones, Environmental Control Officer, Environmental Regulation and Enforcement, Parks and Environment, appointing Metro Vancouver employees as the Board-designated solid waste manager, the Board-designated deputy solid waste manager, and as a Board-designated officer, and rescinding appointments of four former employees.

It was MOVED and SECONDED

That the GVS&DD Board:

- a) pursuant to the *Greater Vancouver Sewerage and Drainage District Municipal Solid Waste and Recyclable Material Regulatory Bylaw No. 181, 1996* and the *Environmental Management Act*:
 - i. rescind the appointments of Ray Robb as the solid waste manager, and of Kathy Preston as the deputy solid waste manager;
 - ii. appoint Metro Vancouver employee Kathy Preston as the solid waste manager, and Metro Vancouver employee Michelle Jones as the deputy solid waste manager;
 - iii. rescind the appointments of Toby Gritten, Dan Saunders, and Rob Kemp as officers; and
 - iv. appoint Metro Vancouver employee Muhammad Ali as an officer.
- b) pursuant to Section 28 of the *Offence Act* for the purpose of serving summons for alleged violations under the *Greater Vancouver Sewerage and Drainage District Municipal Solid Waste and Recyclable Material Regulatory Bylaw No. 181, 1996*:
 - i. rescind the appointments of Toby Gritten, Dan Saunders, and Rob Kemp; and
 - ii. appoint Metro Vancouver employee Muhammad Ali.

CARRIED

5.6 2022 Update on National Zero Waste Council Activities

Report dated April 1, 2022, from Heather Schoemaker, General Manager, External Relations, and Ann Rowan, Division Manager, Collaboration and Engagement, providing an update on the initiatives and projects of the National Zero Waste Council since it's last update in September 2021.

Members were provided a presentation on a number of initiatives including the Leadership Initiative to Advance Waste Prevention in Canada and Circular Cities and Regions, highlighting the knowledge building and sharing opportunities, and research food waste prevention strategies.

Members were also provided with an update on the cross-sector working groups collaboration, 2022 – 2025 Strategic Plan, opportunities for reuse of materials in the retail and construction industries, and the 2022 Metro Vancouver Zero Waste Conference to be held in September 28 - 29.

Presentation material titled “National Zero Waste Council” is retained with the April 8, 2022 Zero Waste Committee agenda.

It was MOVED and SECONDED

That the MVRD Board receive for information the report dated April 1, 2022, titled “2022 Update on National Zero Waste Council Activities.”

CARRIED

5.7 2021 Holiday Waste "Create Memories, Not Garbage" Campaign Results

Report dated February 16, 2022, from Larina Lopez, Division Manager, and Shellee Ritzman, Policy Coordinator, Corporate Communications, updating the Zero Waste Committee on the results of the 2021 regional holiday waste-reduction campaign, “Create Memories, Not Garbage”.

Members were provided a presentation on the 2021 regional holiday waste-reduction campaign “Create Memories, Not Garbage” outlining the media approach, media and social media metrics, the results of the post-campaign survey and website performance, and the 2022 program strategy outline.

Presentation material titled “Create Memories, Not Garbage” is retained with the April 8, 2022 Zero Waste Committee agenda.

It was MOVED and SECONDED

That the Zero Waste Committee receive for information the report dated February 16, 2022, titled “2021 Holiday Waste ‘Create Memories, Not Garbage’ Campaign Results.”

CARRIED

5.8 Solid Waste Management Plan Update – Public/Technical Advisory Committee Applicant Evaluation Process

Report dated March 30, 2022, from Sandy Young, Senior Engagement Specialist, Solid Waste Services, providing an overview of applicant demographics and the evaluation process for the Public/Technical Advisory Committee applications.

Members were provided a presentation on the Solid Waste Management Plan highlighting the plan development and engagement phases, governance framework, and outlining the public/technical advisory committee application and evaluation processes.

In response to questions, members were informed about the application communication process, strategies to minimize barriers for participation, and compensation aspects.

Presentation material titled “Solid Waste Management Plan Update – Public/Technical Advisory Committee Applicant Evaluation Process” is retained with the April 8, 2022 Zero Waste Committee agenda.

It was MOVED and SECONDED

That the GVS&DD Board receive for information the report dated March 30, 2022, titled “Solid Waste Management Plan Update – Public/Technical Advisory Committee Applicant Evaluation Process”.

CARRIED

5.9 Manager’s Report

Report dated March 31, 2022, from Paul Henderson, General Manager, Solid Waste Services, providing an update on a number of programs and initiatives, including the new United Boulevard Recycling and Waste Centre that opened on March 14th, Recycling Depot Funding Strategy launch, a renewal of the BC Lamps and Lighting Equipment Extended Producer Responsibility Program Plan, and a launch of the Metro Vancouver Recycling and Disposal Cost estimator.

Members were shown a video on the new United Boulevard Recycling and Waste Centre which is not retained with the agenda. The Recycling and Disposal Cost Estimator presentation slide is retained with the April 8, 2022 Zero Waste Committee agenda.

It was MOVED and SECONDED

That the Zero Waste Committee receive for information the report dated March 31, 2022, titled “Manager’s Report”.

CARRIED

6. INFORMATION ITEMS

No items presented.

7. OTHER BUSINESS

No items presented.

8. BUSINESS ARISING FROM DELEGATIONS

No items presented.

9. RESOLUTION TO CLOSE MEETING

It was MOVED and SECONDED

That the Zero Waste Committee close its regular meeting scheduled for April 8, 2022 pursuant to the *Community Charter* provisions, Section 90 (1) (a) as follows:

“90 (1) A part of the meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:

- (a) personal information about an identifiable individual who holds or is being considered for a position as an officer, employee or agent of the regional district or another position appointed by the regional district”.

CARRIED

10. ADJOURNMENT/CONCLUSION

It was MOVED and SECONDED

That the Zero Waste Committee adjourn its regular meeting of April 8, 2022.

CARRIED

(Time: 10:14 a.m.)

Natalia Melnikov,
Legislative Services Coordinator

Jack Froese, Chair

51812559 FINAL

To: Zero Waste Committee

From: Terry Fulton, Senior Project Engineer, Solid Waste Services

Date: May 5, 2022 Meeting Date: May 13, 2022

Subject: **2021 Waste Composition Data**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated May 5, 2022, titled “2021 Waste Composition Data”.

EXECUTIVE SUMMARY

Metro Vancouver’s waste composition program includes a series of annual studies to learn about the types and quantities of waste disposed in the region. In 2021, both a full-scale study examining waste disposed from all sectors and a multi-family sector specific study were completed. Results from the full-scale study indicate that waste composition in 2021 was similar to 2018, with 2020 being an outlier year due to the COVID-19 pandemic. Key similarities in 2018 and 2021 waste composition include quantities of organics and building material disposed. Single-use item disposal increased in 2021 compared to 2020, but is lower overall than pre-pandemic levels. Personal protective equipment disposal, particularly masks, also increased in 2021. Multi-family waste composition demonstrates that compostable organics remain the largest component of multi-family waste and a key opportunity for waste diversion in this sector. Waste composition results help identify priorities for solid waste management plan update and inform behavior change campaigns such as “Food Scraps Aren’t Garbage.”

PURPOSE

The purpose of this report is to update the Zero Waste Committee on the results of the two waste composition studies completed in 2021.

BACKGROUND

On October 16, 2020 the Zero Waste Committee received for information the report titled “Waste Composition Program Plan” which outlined a proposed schedule of waste composition studies to be carried out annually. The new plan increased the frequency of full-scale studies and sector-specific studies from alternating every other year to occurring annually. Waste composition studies provide valuable estimates of the types and quantities of material disposed in the region and provide baseline data for the solid waste management plan update.

2021 WASTE COMPOSITION PROGRAM

The 2021 waste composition program included two separate waste composition studies: a full-scale waste composition study examining material received at regional disposal facilities from residential and commercial/institutional sources, and a multi-family sector specific waste composition study focusing on material generated in multi-family residential buildings throughout the region.

Overall Results

Field work for the 2021 full-scale waste composition study took place in November and December 2021 at the North Shore Recycling and Waste Centre, the Waste-to-Energy Facility, and the Vancouver South Transfer Station. The study was completed during the ongoing COVID-19 pandemic and provides an interesting snapshot of how habits changed in 2021 since the previous study was completed in September 2020. Findings indicate that waste composition in 2021 was more similar to 2018 and years prior than it was to 2020. Public health restrictions, economic impacts and shifting behavior in the first year of the pandemic corresponds to a large decrease in waste generated from the commercial/institutional sector. Lessening restrictions and a gradual return to the workplace may have contributed to the normalizing of 2021 waste composition results.

In particular, compostable organics and building material, two categories that changed significantly in 2020, appeared to have rebounded in 2021. Compostable organics made up 26% of total waste disposed in 2018, decreased to 20% in 2020, and returned to 29% in 2021. Building material was 6% in 2018, increased to 10% in 2020, and decreased back to 5% in 2021. Non-compostable organics, which primarily consists of painted and engineered wood, decreased significantly from 16% in both 2018 and 2020 to 9% in 2021. This decrease can primarily be attributed to a decrease in wood waste generated at single family and multi-family homes.

The majority of building material and non-compostable organics disposed come from small load waste delivered in hand unloaded vehicles by residents and contractors. Metro Vancouver has initiated a procurement process to manage small load waste to recover any remaining recyclable materials and produce a low-carbon alternative fuel product. The initiative will result in up to 60,000 tonnes per year of material being diverted from the waste stream.

Material	2018		2020		2021	
	kg/capita	Percent	kg/capita	Percent	kg/capita	Percent
Paper	63	18%	44	14%	60	19%
Plastic	57	16%	57	19%	59	19%
Compostable Products and Packaging	<1	<1%	<1	<1%	<1	<1%
Compostable Organics	91	26%	61	20%	89	29%
Non-Compostable Organics	57	16%	49	16%	28	9%
Metal	13	4%	14	4%	11	3%
Glass	8	2%	7	2%	6	2%
Building Material	20	6%	30	10%	14	5%
Electronic Waste	4	1%	6	2%	3	1%
Household Hazardous	3	<1%	3	1%	6	2%
Household Hygiene	26	7%	24	8%	30	9%

Bulky Objects	2	<1%	11	3%	2	1%
Fines	5	2%	2	1%	6	2%
Total	350	100%	310¹	100%	302¹	100%

¹ Per capita tonnages for waste composition studies are typically based on the last reported year of data available at the time of publishing. In 2020, the tonnage was adjusted to reflect anticipated decreases in overall tonnage as of December 2020. In 2021, actual 2020 tonnages are used however it should be noted that total tonnage for 2021 has not yet been reported and will likely be higher.

Single-Use Items

Metro Vancouver has been counting single-use items disposed in the municipal solid waste stream since the 2018 waste composition study. Despite representing only 3% of the waste stream by weight, single-use items can have detrimental impacts on marine ecosystems and represent an opportunity to encourage waste reduction. The categories listed correspond with the items prioritized in Metro Vancouver's Single-Use Item Reduction Toolkit (Reference 3) and includes items most commonly targeted by municipal single-use item reduction bylaws. Single-use items are typically disposed in higher concentrations in streetscape waste, which is delivered to regional solid waste facilities in dedicated loads or comingled with other types of waste, and was not included in this study. As samples are randomly selected for sorting in waste composition studies, the single-use item data may not capture the contribution of streetscape waste to overall single-use item disposal.

Total single-use item disposal increased from 2020 to 2021, but still demonstrates a decrease compared to pre-pandemic levels. Retail bag disposal, which increased during the pandemic, remained high in 2021 compared to 2018, however it should be noted that sampling was done prior to widespread plastic bag bans in the region. Items which decreased significantly from 2018 to 2020, such as single-use cups and utensils, have increased from 2020 to 2021. Take out containers, which increased significantly from 2018 to 2020, decreased in 2021 to levels similar to 2018.

SUI Item	2018		2020		2021	
	Items/capita	Total items (millions)	Items/capita	Total items (millions)	Items/capita	Total items (millions)
Retail Bags	101	256	117	318	116	321
Cups	102	262	64	174	98	271
Containers	70	179	95	259	65	180
Straws	40	102	34	92	33	91
Utensils	130	331	49	135	80	221
Totals	443	1130	359	978	391	1082

Personal Protective Equipment

Metro Vancouver residents disposed an estimated 260 million masks and 350 million gloves in 2021. While glove disposal in 2021 was similar to 2020, mask disposal increased significantly from 40 masks/capita to 94 masks/capita. This is consistent with public health mandates regarding mask usage which came into place following the 2020 waste composition study and stayed in place for the majority of 2021.

Table 3: Personal Protective Equipment				
	2020		2021	
PPE Item	Items/capita	Total items (millions)	Items/capita	Total items (millions)
Masks	40	109	94	260
Gloves ¹	136	371	126	350
Wipes	18	48	36	100
Total	194	528	257	710

1 Gloves are counted individually

Multi-Family Waste Composition Study

The 2021 Multi-Family Waste Composition Study characterized waste disposed at 100 multi-family residences throughout the Metro Vancouver region. Results indicated that the largest component of multi-family waste remains compostable organics (37% or 77kg/capita), followed by plastic, household hygiene products such as diapers and pet waste, and paper. This is similar to the percentage of compostable organics found from the last multi-family waste composition study completed in 2017 (38% or 80 kg/capita). These results will help to inform Metro Vancouver's behavior change campaigns such as "Food Scraps Aren't Garbage" as well as the solid waste management plan update process. Metro Vancouver residents remain well above the national average in access to composting programs, with 87% of residents composting kitchen scraps in comparison to the national average of 62%.

Table 4: Multi-Family Waste Composition				
	2017		2021	
Material	kg/capita	Percent	kg/capita	Percent
Paper	31	16%	30	15%
Plastic	34	15%	34	17%
Compostable Products and Packaging	<1	<1%	<1	<1%
Compostable Organics	80	38%	77	37%
Non-Compostable Organics	10	5%	8	4%
Metal	6	3%	5	3%
Glass	6	3%	7	3%
Building Material	4	2%	4	2%
Electronic Waste	4	2%	4	2%
Household Hazardous	1	1%	1	1%
Household Hygiene	31	15%	31	15%
Bulky Objects	<1	<1%	5	3%
Fines	1	1%	1	1%
Total	212	100%	206	100%

Metro Vancouver's waste composition consultant estimated overall rates of disposal, recycling and organics recycling based on pick-up frequency and bin volumes at the time of collection. The 2021 multi-family waste generation rate was 206 kg/capita, slightly lower than the 2017 rate of 212/kg capita. Overall recycling (including all types of recyclable material) was estimated at 103 kg/capita, compared to 82 kg/capita in 2017, and organics recycling was 50 kg/capita, compared to 35 kg/capita in 2017. The multi-family study will be repeated in 2022 to further assess generation rates.

The multi-family study also included a visual inspection of contamination in multi-family recycling and organics containers, indicating that 30 to 55% of all bins observed contained clearly visible contamination. Film plastic remains a common contaminant in both recycling and organics containers.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The waste composition program is ongoing and is included in the solid waste services annual operating budget.

CONCLUSION

Metro Vancouver's waste composition program provides valuable information on the progress of various waste reduction and recycling initiatives, as well as identifying potential target materials for future programs and policies. Two studies were completed in 2021: a multi-family waste composition study and a full-scale waste composition study. The 2021 full-scale study demonstrated that waste composition during the second year of pandemic is more similar to composition in 2018 than to waste composition during the initial stages of the pandemic in 2020. The multi-family waste composition study found that compostable organics remain the highest proportion of multi-family residential waste disposed, by weight. Metro Vancouver will continue to monitor waste composition annually with the intention of completing four waste composition studies in 2022.

References

1. [2021 Multi-Family Waste Composition Study](#)
2. [2021 Full-Scale Waste Composition Study](#)
3. [Single-Use Item Reduction Toolkit](#)

49472238

To: Zero Waste Committee

From: Karen Storry, Senior Engineer, Solid Waste Services

Date: May 4, 2022 Meeting Date: May 13, 2022

Subject: **Single-Use Item Reduction Regulatory Update**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated May 4, 2022, titled “Single-Use Item Reduction Regulatory Update”.

EXECUTIVE SUMMARY

Since the GVS&DD Board (the Board) approved the *Regionally Harmonized Approach to Municipal Single-Use Item Reduction Bylaws* on November 26, 2021 the Government of Canada, the Government of BC, and member jurisdictions have implemented or announced plans to implement single-use item reduction regulations. While the proposed regulations largely align with the regionally harmonized approach, there are some proposed additions such as banning plastic ring carriers at the federal level and banning compostable foodservice ware at the provincial level. The proposed regulations for Canada and BC, once enacted, will provide a high level of harmonization. At the same time, the flexibility of the proposed BC regulations will allow municipalities to pursue new policies to address single-use waste that go beyond the scope of the provincial and federal government regulations. Five of Metro Vancouver’s member jurisdictions have bylaws and three have received direction to work on bylaws. In addition, recent changes to the BC Food Safety Act allow customers to bring containers to be filled by restaurants.

PURPOSE

To update the Zero Waste Committee on single-use item reduction regulations that are being contemplated by the Government of Canada, the Government of BC, and member jurisdictions.

BACKGROUND

At its November 26, 2021, the Board of Directors of the Greater Vancouver Sewerage and Drainage District (Metro Vancouver) adopted the following resolution:

That the GVS&DD Board:

- a) approve the following regionally harmonized approach to municipal single-use item reduction bylaws:*
- i. ban on plastic checkout bags with prescribed minimum fees for recycled paper bags and reusable bags;*
 - ii. ban on polystyrene foam service ware containers;*
 - iii. ban on plastic drinking straws not required for medical and accessibility needs with alternatives such as paper drinking straws provided only on request by the customer;*
 - iv. ban on plastic stir sticks with all other utensils provided only on request by the customer;*
and

b) write the Minister of Environment and Climate Change Strategy requesting that municipalities be authorized to require businesses to charge prescribed minimum fees for single-use cups.

Metro Vancouver does not have regulatory authority to restrict the sale and use of single-use items. It is up to each municipality to develop its own bylaw that aligns with the regionally harmonized approach.

SINGLE-USE ITEM REGULATIONS

Since the Board approved the *Regionally Harmonized Approach to Municipal Single-Use Item Reduction Bylaws* on November 26, 2021, the Government of Canada, the Government of BC, and several local governments have implemented or announced plans to implement single-use item reduction regulations.

Table 1 – Summary of Regulatory Measures to Reduce Single-Use Items

	Government of Canada (Proposed Regulations)	Government of BC (Proposed Regulations)	Metro Vancouver (Harmonized Approach for Member Jurisdictions)
Checkout Bags	-Ban plastic	-Ban plastic -Fees and recycled content in paper -Fees for reusables	-Ban plastic -Fees and recycled content in paper -Fees for reusables
Cups and Containers (foodservice ware)	Ban problematic plastics: -Polystyrene foam -PVC -oxo-degradable plastics	Ban problematic plastics: -Polystyrene foam -PVC -oxo-degradable plastics -compostable plastics	Ban problematic plastics: -Polystyrene foam
Plastic ring carriers	-Ban plastic		
Straws	-Ban plastic	-By-request	-Ban plastic -All others by-request
Utensils	-Ban plastic	-By-request	-By-request
Stir Sticks		-By-request	-Ban plastic -All others by-request
Disposable foodservice ware accessories		By request for: -condiment sachets -napkins -cup sleeves and other similar items	
All packaging		-Ban oxo-degradable plastics	

Government of Canada

On December 25th, 2021 the Government of Canada published its proposed prohibition on certain single-use plastics by 2023. The regulations propose prohibiting the manufacture, import, and sale of single-use plastic straws. In addition to straws, it looks at prohibiting the manufacture, import, and sale of single-use plastic checkout bags, single-use plastic cutlery, single-use plastic foodservice ware made of foam and other problematic plastics, single-use plastic ring carriers, or single-use plastic stir

sticks. While the Government of Canada's proposed regulations largely aligns with and expands on the regionally harmonized approach to single-use plastic bans (Table 1), they do not address the reduction of substitutions such as paper straws, paper bags, and reusable bags which are addressed in the regionally harmonized approach. The fact that the Government did not address substitutions resulted in some initial uncertainty for local governments about the implications for their local bylaws. Government of Canada staff provided clarification that local government bylaws and provincial regulations which address these substitutions would be complementary to the federal approach.

Government of BC

In February 2022, the Government of BC released a new policy for reusable containers on food premises. Customer-supplied containers are now allowed under the BC Food Safety Act. Businesses must identify which food and beverage items are appropriate for customer-supplied containers. The customer-supplied containers must be clean and suitable for food transport.

On April 22, 2022, the Government of BC released their *Preventing Single-Use and Plastic Waste in British Columbia Intentions Paper*. While they plan to align with the federal bans, their intentions paper recognizes that a combination of tools and policies are needed to successfully address the use of and the waste from single-use items in BC. To that end, their proposed regulations look towards circular economy approaches where nothing is 'waste' and reduce, reuse, and repair are the norm. For single-use specifically, they are looking to:

- Phase out unnecessary single-use and plastic items;
- Promote a shift to durable reusable options; and
- Ensure necessary single-use and plastic items are recycled or composted.

As shown in Table 1, the Government of BC's proposed regulatory measures align with and expand upon the both Government of Canada's proposed regulations and the regionally harmonized approach. In addition to addressing substitutions for single-use plastics through fee and by-request policies, the Government of BC proposes banning compostable plastic foodservice ware and all oxo-degradable plastic packaging. While compostable plastics are typically designed to be safe for soils if they properly break down during composting, oxo-degradable plastics contain additives that lead to fragmentation of the plastics into microplastics that further contaminate the environment.

Banning compostable plastics foodservice ware which are not readily accepted in composting facilities in BC aligns with feedback provided to senior levels of government by Metro Vancouver staff. Compostable plastics are often screened out and sent to disposal because many of the plastics labeled compostable cannot be readily processed by composting facilities.

In December 2021, The Metro Vancouver Board Chair wrote the Minister of Environment and Climate Change requesting that he consider providing BC municipalities with the authority to charge a prescribed fee for single-use cups. While the response from the Minister and the intentions paper does not explicitly provide this authority to BC municipalities, they recognize it is an emerging priority for BC municipalities, and state that they will monitor the impact of municipal bylaws to determine whether action applied at the local level could be applicable on a provincial scale. Feedback on the

intensions paper provides an opportunity to reiterate the need for fees on disposable beverage cups to change behavior and enable circular economy innovations such as cup share programs.

The Government of BC proposed regulations would stand alongside municipal bylaws that regulate the same items at the municipal level. However, municipal bylaws can be stricter than the provisions of the proposed regulation, and municipalities may further enforce and/ or educate at the local level about single-use and plastic reduction. For items not covered under the proposed regulation, municipalities can continue to submit bylaws to the province for minister approval.

The deadline for feedback on the intensions paper is June 21, 2022. Staff will work to provide a response in collaboration with the members through the Regional Engineers Advisory Committee Solid Waste Subcommittee. The intentions paper timeline shows a target date of December 2023 for implementing the checkout bag ban and by-request for disposable foodservice ware accessories. And a target date of 2024 for phasing out problematic plastic foodservice ware and oxo-degradable plastic packaging.

Local Governments

A survey of member municipalities in early April 2022 found that many members without bylaws were waiting for confirmation of the federal and provincial regulations. At the same time, several bylaws came into effect in 2022 and some members are moving forward with plans to develop bylaws that align with the regionally harmonized approach:

- City of Vancouver’s bylaws were effective January 1, 2020, for foam, April 22, 2020, for straws and utensils, and January 1, 2022, for cup fees and bags;
- City of Surrey’s bylaw became effective October 21, 2021;
- City of Richmond’s bylaw became effective March 27, 2022;
- City of Port Moody’s bylaw became effective April 22, 2022;
- City of Delta’s bylaw becomes effective June 6, 2022;
- City of Coquitlam approved their Environmental Sustainability plan in January 2022 which included a priority action to “implement a single-use item bylaw that reflects the regional approach developed by Metro Vancouver”;
- On February 28th, 2022, City of Burnaby Council requested staff to draft a single-use plastics reduction Bylaw for enactment prior to the end of 2022 which will follow the regionally harmonized approach; and
- City of Maple Ridge council passed a motion on April 12, 2022 “that staff prepare a single-use and other items bylaw for council consideration”.

Outside of the region:

- Tofino, Ucluelet, and Chilliwack banned plastic utensils in advance of the proposed federal ban.
- At their April 21, 2022 meeting, the City of Victoria committee of the whole unanimously supported the staff’s three policy recommendations:
 - utensils and packets of condiments only by request;
 - require reusable foodservice ware; and
 - \$0.25 fee for any take-out cup or container.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

There are no direct financial implications for Metro Vancouver.

OTHER IMPLICATIONS

Metro Vancouver may need to make housekeeping amendments to the Board-approved *Regionally Harmonized Approach to Municipal Single-Use Item Reduction Bylaw* to align with proposed federal and provincial regulations.

CONCLUSION

Canadians asked their government to take action to reduce unnecessary single-use plastics and items. There are now not only regulatory measures in place by local governments who led this action to reduce single-use items, but also proposed regulations for Canada and BC which, once enacted, will provide a high level of harmonization. While the Government of Canada regulations address single-use plastics, they do not address substitutions. Therefore, there is still an important role for the government of BC and BC municipalities in addressing other single-use items. The flexibility of the proposed BC regulations will allow municipalities in BC to pursue new policies to address single-use waste that go beyond the scope of the provincial and federal government regulations.

References

1. [Regionally Harmonized Approach to Municipal Single-Use Item Reduction Bylaws](#)
2. [Preventing Single-Use and Plastic Waste in British Columbia Intensions Paper](#)
3. [Provincial Policy on the Use of Reusable Food Containers in Food Premises in British Columbia](#)

52362703

To: Zero Waste Committee

From: Larina Lopez, Division Manager, Corporate Communications
Alison Schatz, Sr. Communications Specialist, Corporate Communications

Date: May 5, 2022 Meeting Date: May 13, 2022

Subject: **2022 Food Scraps Recycling "Food Scraps Aren't Garbage" Results**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated May 5, 2022, titled "2022 Food Scraps Recycling "Food Scraps Aren't Garbage" Results."

EXECUTIVE SUMMARY

The 2022 "Food Scraps Aren't Garbage" campaign ran from January 3 to March 6, 2022. The campaign's primary objective is to increase the diversion of organic waste into the green bin. New in 2022 were two target audience segments: those on the fence about using the green bin (men age 18–44), and those who can further improve by reducing contamination (women age 45–65). A new key message making the connection between composting and climate change was added. Residents who have seen the campaign feel that reducing production of methane is the most important benefit of food scraps recycling (27% vs 17% unaware of advertising). This is likely a direct result of the new message. The campaign performed strongly, with 31 million impressions, 2 million reach, over 16,000 webpage visits. There were 12,700 likes, comments, and shares on social media, which is well above average. The campaign will run again in early 2023.

PURPOSE

To update the Committee on the results of the 2022 regional food scraps recycling campaign, "Food Scraps Aren't Garbage."

BACKGROUND

The food scraps recycling campaign is part of a suite of education, enforcement (policy) and engineering efforts by Metro Vancouver to reduce waste in the region. It supports the waste reduction objectives in the *Integrated Solid Waste and Resource Management Plan*. 2022 marked the ninth year of the campaign. This report provides an update on the results of the 2022 campaign as identified in the 2022 Zero Waste Committee Work Plan.

2022 REGIONAL FOOD SCRAPS RECYCLING CAMPAIGN

The 2022 "Food Scraps Aren't Garbage" campaign was in market from January 3 to March 6, 2022. Classically recognized organics are still in the garbage in significant quantities, so the primary campaign objective was to increase the diversion of organic waste into the green bin. The secondary objective was to reduce contamination overall (by single-use items, plastic bags, plastics labelled

“compostable” or “biodegradable,” PPE, and other items). The campaign leveraged the existing googly-eyed food face characters (see Attachment 1 for sample creative).

The target audience was Metro Vancouver residents, with two distinct segments. Research provided insights into green bin behavior among different groups. Those who tend to use the green bin less were men age 18–44. Those who tend to use the green bin more and could further improve by reducing contamination were women age 45–65.

For the “on the fence” audience (men age 18–44), the strategy was to increase benefits by giving them a reason why they should use the green bin, and reduce barriers by emphasizing that it is easy to do so. To help the “on the fence” audience better understand the benefit of using the green bin, a message connecting food scraps recycling and climate change was added: “Recycling one tonne of food scraps prevents 0.4 tonnes of CO₂ emissions.” Leading up to the campaign, three variations of this message were tested on Twitter, Facebook, and Instagram. The results demonstrated that the message above was most effective with the new audience segment. A new video, “Prevent Bad Gas,” (Reference 1) was created. Two notable tactics were used to reach the younger male audience. Twitch (a video live-streaming service that focuses on video games) was tested in this campaign period. CFOX host Captain Scotty created on air spots and social media content to support the campaign (shared on CFOX’s Instagram).

For those already using the green bin (women age 45–65), the strategy was to help them improve by reducing contamination, and to create content they would share to help amplify our message. New infographics about common, confusing contaminants with highly shareable information were created (Attachment 2). These were based on data from past campaign flights, including questions received and popular webpages.

The paid media strategy leveraged both broad and targeted tactics and included digital (YouTube, Facebook, Instagram, Twitch, Google Search), broadcast (geo-targeted television PSA (14 networks), radio (CFOX FM), and out-of-home advertising (transit shelter ads, elevator screens in multi-family buildings). All the placements directed to the campaign website (Reference 2).

Elevator screens in condo buildings were used to reach the multi-family audience segment. They included messages to address the specific barriers to using the green bin for multi-family residents.

Engagement of Metro Vancouver Members

Campaign materials were made available to all Metro Vancouver members, including social media content and co-branded assets like transit shelter ads and digital message boards. Several members used the materials on their social media channels and throughout their municipalities.

Results

Website Traffic

- Over the campaign period, there were 16,066 page views, which is 255 per day. This is slightly lower than previous years, but not unexpected given that the media mix did not include banner ads and the social media ads had an engagement objective (i.e. they were optimized for sharing, not clicks).

- Users spent on average of 2:24 viewing a page, longer than previous years, indicating that people were taking the time to read the content.
- Besides the landing page, the most popular pages were "What Goes in the Green Bin?" followed by "About Food Scraps Recycling," "Plastics in the Green Bin," and "What to Do with Confusing Items?"
- These pages were designed to answer specific questions that residents have, and the high amount of traffic and average time on page indicate that they are providing information that residents seek.

Media Performance

- The campaign delivered just over 31 million impressions.
- The broad traditional tactics delivered 23.5 million impressions across transit shelter ads, television, and elevator screens. The television PSA aired 19,476 times.
- The targeted digital tactics delivered 7.6 million impressions across social media, YouTube, and Google Search, with a reach of 608,000.
- There were 1.2 million video views on social media.
- Radio received 743,100 impressions (184 spots).

Social Media

- Social media placements had a total reach of 608,600 people.
- There were 12,701 engagements (likes, comments, and shares), which is well above average and indicates the engagement strategy was effective.

Post-Campaign Survey

A post-campaign survey was conducted in March 2022.

- 22% of residents reported having seen or heard the campaign. This is a strong result and indicates the campaign was effective overall.
- 34% of those who saw the advertising talked about it with others, indicating that the campaign message was shared by the audience.
- When asked about the most important benefit of a food scraps program, residents who have seen or heard Metro Vancouver's advertising are most likely to feel that reducing production of methane is the most important benefit (27% vs 17% unaware of advertising). This is likely a direct result of the new key message used in this year's campaign.

Plans for 2023 Regional Campaign

The campaign will run again in early 2023. It will continue to use the existing creative platform, as performance is strong. The target audience and key messages are to be determined, but will be based on insights from 2022's campaign and data from Solid Waste Services.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The 2022 food scraps recycling campaign has a budget of \$110,000, supported under the Zero Waste Communications Program of the 2022 General Government budget.

CONCLUSION

2022 was the ninth year of the “Food Scraps Aren’t Garbage” campaign, which aims to increase diversion of organic waste into the green bin. The food faces creative platform was used once again in 2022, with two different audience segments (men age 18–44 who are on the fence about using the green bin and women age 45–65 who already use the green bin but could improve by reducing contamination). Specific creative and tactics were used for each audience. The campaign performed strongly, with 31 million total impressions, 2 million reach, over 16,000 webpage visits, and 12,700 likes, comments, and shares on social media. When asked about the most important benefit of a food scraps program, residents who have seen or heard Metro Vancouver’s advertising are most likely to feel that reducing production of methane is the most important benefit (27% vs 17% unaware of advertising). This is likely a direct result of the new key message used in this year’s campaign. The campaign will run again in 2023, informed by learnings from 2022 and building on the long-term equity of the creative platform.

Attachments:

1. “Food Scraps Aren’t Garbage” Sample Creative
2. Shareable Infographic Examples

References

1. [“Prevent Bad Gas” Video](#)
2. [“Food Scraps Aren’t Garbage” Website](#)

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“FOOD SCRAPS AREN’T GARBAGE” SAMPLE CREATIVE

Posters



Apple



Red Pepper



Napkin



Pineapple



Onion Peel



Coffee Filter

metrovancouver

hey!
**food scraps
aren't
garbage!**

**Green bin
your veggie
scraps!**



Recycling one tonne of food scraps prevents 0.4 tonnes of CO₂ emissions.
Find out more at metrovancover.org/foodscraps.

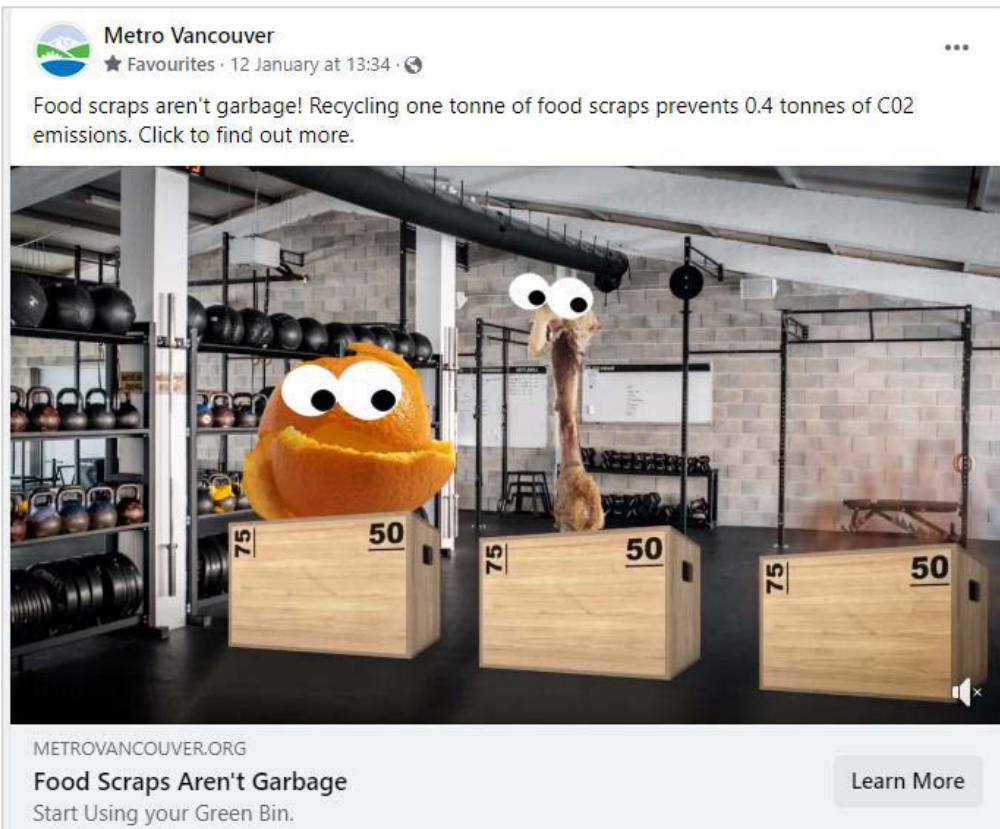
Social Media Ads



Facebook



Instagram



Facebook (Video)

Google Search Ads

Ad · <http://www.metrovancouver.org/> ▼

Food Scraps Recycling - Metro Vancouver

Questions on composting? Tips to make composting an easier, cleaner task in your household. See what belongs in the green bin and what does not. Check out our tools and resources! Reduce Landfill **Waste**. Keep It Clean. Ice Your **Scraps**. Separate Your **Scraps**.

Green Bin Confusion?

Find out what to do with confusing items.

Plastics in the Green Bin

Learn more about what happens if plastics end up in the green bin.

Food Scraps Recycling

Learn the benefits of using a green bin and why it matters.

Tips for Green-Binning

Find more information on food scraps recycling.

Ad · <http://www.metrovancouver.org/> ▼

Tips for Green-Binning - What Goes in the Green Bin?

Questions on composting? **Tips** to make composting an easier, cleaner task in your household. Recycling one tonne of food scraps prevents the equivalent of 0.4 tonnes of CO2 emissions. Separate Your Scraps. Make It Easy. Keep It Clean. Ice Your Scraps. Rinse It Out.

Green Bin Confusion?

Find out what to do with confusing items.

Tips for Green-Binning

Find more information on food scraps recycling.

Food Scraps Recycling

Learn the benefits of using a green bin and why it matters.

Plastics in the Green Bin

Learn more about what happens if plastics end up in the green bin.

SHAREABLE INFOGRAPHIC EXAMPLES



Take the Grease Test

Have a paper takeout container? Do the grease test. If the grease goes through, it's safe for the green bin. If it doesn't, it may have a coating or plastic liner. Put it in the garbage or recycling.

Find out how to recycle takeout containers at recyclebc.ca/what-can-i-recycle



Takeout Containers



Do You Line Your Green Bin with a Plastic Bag?

If you use a plastic bag to line your kitchen catcher, empty the contents of the bag into the green bin, and then throw the bag in the garbage.

Plastic and plastic-lined bags do not go in the green bin – even the ones labelled 'biodegradable' or 'compostable.' (Use newsprint or a paper bag to line your bin instead.)



Green Bin Liner



Wooden Utensils Go in the Green Bin

Wooden items, like skewers, toothpicks, popsicle sticks, and chopsticks, can all go in your green bin.



Wooden Utensils



Food Packaging Doesn't Go in the Green Bin

Remember to remove food from its packaging, including plastic wrap and zip top bags, before putting it in the green bin.



De-package Food



Keep Coffee Cups Out of the Green Bin

Paper cups can be recycled with your containers at home.

Cups labelled 'compostable' or 'biodegradable' are not accepted in food scraps or the blue bin in Metro Vancouver. Put these in the garbage.

The best option is to bring a reusable mug.



Coffee Cups




What to Do with Dog Poo?

Dog waste (and other pet waste) doesn't go in the green bin. Find out what to do with it at metrovancover.org (search 'pet waste').



Dog Poo

Sample Carousel Ad Using Infographics


 **Metro Vancouver**
17 January at 15:03 · 🌍

Keeping contaminants out of the green bin is a win! Use these tips to level up your composting.

metrovancover

Do the Tea Bag Tear Test

If your tea bag tears easily when wet, it's made of paper and can go in the green bin. If it doesn't rip easily, it's probably made of plastic, and goes in the garbage.



metrovancover.org/foodscraps

Learn More


Food Scraps Aren't ...

metrovancover

Do You Line Your Green Bin with a Plastic Bag?

If you use a plastic bag to line your kitchen catcher, empty the contents of the bag into the green bin, and then throw the bag in the garbage.

Plastic and plastic-lined bags do not go in the green bin – even the ones labelled 'biodegradable' or 'compostable.' (Use newsprint or a paper bag to line your bin instead.)



metrovancover.org/foodscraps


Learn More

Food Scraps Aren't ...

metrovancover

Wooden Utensils Go in the Green Bin

Wooden items, like skewers, toothpicks, popsicle sticks, and chopsticks, can all go in your green bin.



metrovancover.org/foodscraps

Learn More

Food Scraps Aren't ...

To: Zero Waste Committee

From: Paul Henderson, General Manager, Solid Waste Services

Date: May 5, 2022 Meeting Date: May 13, 2022

Subject: **Manager's Report**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated May 5, 2022 titled "Manager's Report".

2022 Single-Use Item Reduction Campaign Update

The 2022 single-use item reduction campaign, "What's your Superhabit?", will be in market from May 23 to August 7, 2022. This is the second year of the campaign. The objective is to reduce the use and disposal of single-use items among Metro Vancouver residents, particularly those aged 18–44 who are more likely to have received a single-use item in the past day. The strategy to celebrate the small daily actions we all take to reduce single-use items will be used once again. The creative is the same as used in 2021, and features everyday people in powerful, superhero-like poses holding reusable items. Tactics include social media (YouTube, Facebook, Instagram, TikTok), television PSA, radio ads and host endorsements, and digital out of home (billboards and transit shelter ads). The campaign website (Superhabits.ca) features easy tips to start a Superhabit and reduce single-use items. New in 2022 is a social media and outreach strategy to create moments of celebration (e.g. by capturing photo or video of people using reusables at local businesses and events) and share them on social media.

Solid Waste and Recycling Industry Advisory Committee Update

The Solid Waste and Recycling Industry Advisory Committee (IAC) has commenced monthly meetings starting in March. At the March meeting, a member put forward a motion to add a new section to the terms of reference on Committee Member Conflicts of Interest, this motion was passed at the April meeting. The new section states that "*Members are to file with the IAC Co-Chairs a written statement detailing all existing or potential conflicts of interest that the member and the organization they represent may have in regards to their relationship with Metro Vancouver.*" All of these statements will not be confidential or privileged and will be disclosed to all committee members and posted on the IAC webpage [Solid Waste and Recycling Industry Advisory Committee \(metrovancouver.org\)](https://www.metrovancouver.org/committees/solid-waste-and-recycling-industry-advisory-committee). The addition to the terms of reference is to ensure a fair and objective process for the duration of the committee.

At its April 29, 2022 meeting the GVS&DD Board approved the recommendation that the IAC elected Co-Chair be included in the new Solid Waste Management Plan Public/Technical Advisory Committee to ensure close connection between the two committees. At the May 3, 2022 meeting the IAC held an election for the Co-Chair and the committee elected Mary Polak, Strategic Advisor with Waste Connections of Canada.

Procurement Processes Updates

Bottom Ash Beneficial Use: Pilot Testing for use of Bottom Ash as a Cement Plant Input Material:

The beneficial use of bottom ash from the Waste-to-Energy Facility could result in a reduction of up to 40,000 tonnes per year of material requiring disposal. Implementation of the non-ferrous metal recovery system has improved both the physical and chemical characteristics of the bottom ash, increasing options for beneficial use of the material. At full scale, beneficial use of bottom ash could reduce regional disposal requirements by approximately 5% and reduce greenhouse gas emissions associated with mining and transporting raw materials.

As reported in the September 10, 2021 Manager's Report, Metro Vancouver initiated a procurement process for the beneficial use of bottom ash in 2020; however, both proponents identified the need for pilot testing before preparing submissions for a full-scale project. Metro Vancouver has engaged Birco Environmental Services to complete pilot testing in support of full scale beneficial use of bottom ash. The pilot test will include processing 1,000 tonnes of bottom ash to remove recyclable metals, crushing, then use as a feedstock in cement production at the Lehigh Cement Plant in Delta BC. Extensive analytical testing of both the ash and the emissions at the cement kiln will be used to evaluate the success of the pilot test. The cost of the pilot test is \$377,250, which was included in the five year financial plan approved in October 2021.

Waste to Energy Facility District Energy Project – Engineering Services: A request for qualifications (RFQ) for engaging consulting engineering services for the design, tendering and construction administration for the district energy project yielded four qualified firms. A request for detailed proposals (RFP) was prepared and sent to the short listed proponents on April 26, 2022. The RFP closes on May 17, 2022 after which a successful proponent will be chosen to complete the design work.

Coquitlam Landfill – Lot 3 Pre-development site preparation: A request for qualifications (RFQ) for engaging consulting engineering services for the design, tendering and construction administration for the pre-development grading of Lot 3 at the Coquitlam Landfill yielded three qualified firms. A request for detailed proposals (RFP) is prepared and will be sent to the short listed proponents this month. After which a successful proponent will be chosen to complete the design work.

Contingency Disposal Services: Metro Vancouver issued RFQ 21-055 on December 10, 2021 to invite interested parties to submit statements of qualifications for contingency disposal services. The procurement process will replace contracts in Solid Waste that expire in the near future. Three companies: Republic Services, GFL Environmental Inc. and Waste Management of Canada Corp. requested to be short-listed for services related to municipal solid waste. All three companies have been shortlisted for the request for proposals (RFP). Recommendations for contract award(s) for municipal solid waste services will be brought to the Zero Waste Committee/Board for consideration following the RFP process.

2022 Zero Waste Committee Work Plan

The attachment to this report sets out the Committee's work plan for 2022. The status of work program elements is indicated as pending, in progress or complete. The listing is updated as needed to include new issues that arise, items requested by the Committee and changes in the schedule.

Attachment

Zero Waste Committee 2022 Work Plan

Zero Waste Committee 2022 Work Plan

Report Date: May 5, 2022

Priorities

1st Quarter	Status
2021 Integrated Solid Waste and Resource Management Plan Biennial Report	Complete
Central Surrey Recycling and Waste Centre Operations Contract Award	Complete
Invited Presentation from Ocean Ambassadors on East of Seymour Zero Waste Takeout	Complete
Flood Disaster Response Solid Waste Management System Summary	Complete
National Zero Waste Council 2021 Accomplishments and 2022 Projects	Complete
2021 Zero Waste Conference	Complete
2nd Quarter	
2021 Disposal Ban Inspection Program Results	Pending
2021 Food Scraps Campaign Results	In progress
2022 Single Use Item Campaign	In progress
2021 Waste-to-Energy Facility Financial Summary	Pending
2022 Think Thrice Textiles Campaign Results	Pending
2021 Waste Composition Data	In progress
Alternative Fuel and Recyclables Recovery Procurement Contract Award	Pending
Contingency Disposal Contract Award	Pending
Love Food Hate Waste	Pending
Solid Waste Services Capital Program Expenditures Update as at December 31, 2021	Pending
Waste-to-Energy Facility – Bottom Ash Beneficial Use Pilots	In progress
3rd Quarter	
2021 Waste-to-Energy Facility Environmental Performance Summary	Pending
2022 National Zero Waste Council Projects	Pending
2022 Textiles Campaign Results	Pending
2022 Zero Waste Conference Update	Pending
City of Vancouver and City of Burnaby District Energy Right-of-Way Agreements	Pending
Illegal Dumping Data and Programs	Pending
Innovation and Continuous Improvement	Pending
Repair and Reuse	Pending
Solid Waste Management Plan Engagement	Pending
Solid Waste Residuals Management Options Study	Pending
Solid Waste Services Capital Program Expenditures Update as at April 30, 2022	Pending

4 th Quarter	
2021 Solid Waste and Recycling Annual Report	Pending
2022 Abandoned Waste Campaign Results	Pending
2022 Create Memories Not Garbage Update	Pending
2022 Single-Use Item Campaign Results	Pending
2023-2027 Financial Plan – Solid Waste Services	Pending
2023 Tipping Fee Bylaw Revisions	Pending
Solid Waste Services Capital Program Expenditures Update as at August 31, 2022	Pending