

**METRO VANCOUVER REGIONAL DISTRICT  
LIQUID WASTE COMMITTEE**

**REGULAR MEETING**

**February 11, 2021**

**1:00 p.m.**

**28<sup>th</sup> Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia**

**A G E N D A<sup>1</sup>**

**1. ADOPTION OF THE AGENDA**

**1.1 February 11, 2021 Regular Meeting Agenda**

That the Liquid Waste Committee adopt the agenda for its regular meeting scheduled for February 11, 2021 as circulated.

**2. ADOPTION OF THE MINUTES**

**2.1 January 21, 2021 Regular Meeting Minutes**

That the Liquid Waste Committee adopt the minutes of its regular meeting held on January 21, 2021 as circulated.

**3. DELEGATIONS**

**4. INVITED PRESENTATIONS**

**5. REPORTS FROM COMMITTEE OR STAFF**

**5.1 Results for 2020 *Wipe It, Green Bin It* Campaign**

That the Liquid Waste Committee receive for information the report dated January 28, 2021, titled "Results for 2020 Wipe It, Green Bin It Campaign".

**5.2 Manager's Report**

That the Liquid Waste Committee receive for information the report dated January 25, 2021 titled "Manager's Report".

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<sup>1</sup> Note: Recommendation is shown under each item, where applicable.

**6. INFORMATION ITEMS**

**6.1 Climate 2050 Discussion Paper on Water and Wastewater Infrastructure**

This report was considered by the Climate Action Committee on November 13, 2020 and received by the MVRD Board on November 27, 2020, and is being presented to the Liquid Waste Committee for information only.

**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.*

That the Liquid Waste Committee close its regular meeting scheduled for January 21, 2021 pursuant to the *Community Charter* provisions, Section 90 (1) (e) and (m) 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:

(e) the acquisition, disposition or expropriation of land or improvements, if the board or committee considers that disclosure could reasonably be expected to harm the interests of the regional district.”

**10. ADJOURNMENT/CONCLUSION**

That the Liquid Waste Committee adjourn/conclude its regular meeting of February 11, 2021.

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Membership:

Stewart, Richard (C) - Coquitlam  
Dominato, Lisa (VC) - Vancouver  
Calendino, Pietro - Burnaby  
Elford, Doug - City of Surrey

Ferguson, Steve - Langley Township  
Little, Mike - North Vancouver District  
Loo, Alexa - Richmond

McDonald, Bruce - Delta  
Trentadue, Mary - New Westminster  
Walker, Darryl - White Rock

**METRO VANCOUVER REGIONAL DISTRICT  
LIQUID WASTE COMMITTEE**

Minutes of the Regular Meeting of the Metro Vancouver Regional District (MVRD) Liquid Waste Committee held at 1:02 p.m. on Thursday, January 21, 2021 in the 28<sup>th</sup> Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia.

**MEMBERS PRESENT:**

Chair, Mayor Richard Stewart, Coquitlam\*  
 Vice Chair, Councillor Lisa Dominato, Vancouver\* (arrived at 1:43 p.m.)  
 Councillor Pietro Calendino, Burnaby\*  
 Councillor Doug Elford, Surrey\*  
 Councillor Steve Ferguson, Langley Township  
 Mayor Mike Little, North Vancouver District\*  
 Councillor Alexa Loo, Richmond\*  
 Councillor Bruce McDonald, Delta\*  
 Councillor Mary Trentadue, New Westminster\*  
 Mayor Darryl Walker, White Rock\*

**MEMBERS ABSENT:**

None.

**OTHERS PRESENT:**

Director Sav Dhaliwal\*, Board Chair and Ex Officio committee member

**STAFF PRESENT:**

Peter Navratil, General Manager, Liquid Waste Services  
 Eva Haan, Legislative Services Coordinator, Board and Information Services

**OPENING REMARKS**

Director Sav Dhaliwal, Board Chair and Ex Officio committee member, acknowledged the contributions of the Metro Vancouver Standing Committee members in what has been a challenging time for the region due to COVID-19 pandemic and recognized the vital role this Committee will play in moving forward.

**1. ADOPTION OF THE AGENDA**

**1.1 January 21, 2021 Regular Meeting Agenda**

**It was MOVED and SECONDED**

That the Liquid Waste Committee adopt the agenda for its regular meeting scheduled for January 21, 2021 as circulated.

**CARRIED**

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

**2. ADOPTION OF THE MINUTES**

**2.1 November 12, 2020 Regular Meeting Minutes**

**It was MOVED and SECONDED**

That the Liquid Waste Committee adopt the minutes of its regular meeting held on November 12, 2020 as circulated.

**CARRIED**

**3. DELEGATIONS**

No items presented.

**4. INVITED PRESENTATIONS**

No items presented.

**5. REPORTS FROM COMMITTEE OR STAFF**

**5.1 2021 Liquid Waste Committee Priorities and Work Plan**

Report dated January 4, 2021, from Peter Navratil, General Manager, Liquid Waste Services, providing the Liquid Waste Committee with the priorities and work plan for the year 2021.

Staff provided members with a presentation regarding the workplan items for the Liquid Waste Committee for 2021. A short video was presented regarding the conversion of liquid waste by-products into natural gas.

Presentation material titled “2021 Liquid Waste Committee Priorities and Work Plan” is retained with the January 21, 2021 Liquid Waste Committee agenda. The video presentation on the Natural Gas Conversion process is not retained with the agenda.

**It was MOVED and SECONDED**

That the Liquid Waste Committee endorse the work plan as presented in the report dated January 4, 2021 titled “2021 Liquid Waste Committee Priorities and Work Plan”.

**CARRIED**

**5.2 Inflow and Infiltration Action Strategy**

Report dated January 11, 2021, from Brent Burton, Division Manager, Policy, Planning and Analysis, Liquid Waste Services, updating the Liquid Waste Committee on ongoing and planned priority actions to support improved management of inflow and infiltration.

Staff provided members with a presentation regarding inflow and infiltration in the sanitary and stormwater system and outlined ownership of the various parts

of the system, sources of inflow and infiltration, and the regional challenges and opportunities that exist to address this issue.

Presentation material titled "Inflow and Infiltration Action Strategy" is retained with the January 21, 2021 Liquid Waste Committee agenda.

1:43 p.m. Councillor Dominato arrived at the meeting.

**It was MOVED and SECONDED**

That the Liquid Waste Committee receive for information the report dated January 11, 2021 titled "Inflow and Infiltration Action Strategy".

**CARRIED**

**5.3 Award of Phase D and E – Construction Support and Post-Construction Services for Northwest Langley Wastewater Treatment Plant River Crossing – Consulting Engineering Services**

Report dated January 5, 2021, from Roy Moulder, Director, Purchasing and Risk Management, Financial Services, and Marie-Liesse Marc, Director, Major Projects - Northwest Langley Wastewater Treatment Projects, Project Delivery, requesting authorization by the GVS&DD Board to award Phases D and E, Construction Support and Post-Construction Services to the consultant, McMillen Jacobs Associates for the Northwest Langley Wastewater Treatment Plant River Crossing in an amount of up to \$2,440,656 (exclusive of taxes).

**It was MOVED and SECONDED**

That the GVS&DD Board:

- a) approve the award of Phase D - Construction Support, and Phase E – Post-Construction Services in the amount of up to \$2,440,656 (exclusive of taxes) to McMillen Jacobs Associates, for the Northwest Langley Wastewater Treatment Plant River Crossing – Consulting Engineering Services, 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**

**5.4 Award of Contract Resulting from Request for Proposal (RFP) No. 20-131: Installation of the Gilbert Trunk Sewer No. 2 Gilbert Road South Section**

Report dated January 7, 2021, from Roy Moulder, Director, Purchasing and Risk Management, Financial Services, and Colin Meldrum, Director, Engineering Design and Construction, Liquid Waste Services, advising the GVS&DD Board of the results of RFP No. 20-131: Installation of Gilbert Trunk Sewer No. 2 Gilbert Road South Section and recommending award of the contract in an amount of up to \$25,037,800 (exclusive of taxes) to Jacob Bros.

**It was MOVED and SECONDED**

That the GVS&DD Board:

- a) approve the award of a contract for an amount of up to \$25,037,800 (exclusive of taxes), to Jacob Bros. Construction Inc./Stuart Olson Construction Ltd., resulting from RFP No. 20-131, for the installation of Gilbert Trunk Sewer No.2 Gilbert Road South Section, 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**

1:52 p.m. Chair Stewart temporarily left the meeting and Vice Chair Dominato assumed the Chair for the duration of the meeting.

**5.5 Award of Contract Resulting from Tender No. 20-202: Annacis Island Wastewater Treatment Plant Gates and Hydraulic System for Influent Control Chamber Channel**

Report dated January 5, 2021, from Roy Moulder, Director, Purchasing and Risk Management, Financial Services, and Colin Meldrum, Director, Engineering Design and Construction, Liquid Waste Services, advising the GVS&DD Board of the results of Tender No. 20-202: AIWWTP Gates and Hydraulic System for the Influent Control Channel Chamber and recommending award of the contract in an amount of \$7,220,500 (exclusive of taxes) to Maple Reinders Constructors Ltd.

**It was MOVED and SECONDED**

That the GVS&DD Board:

- a) approve the award of a contract for an amount of \$7,220,500 (exclusive of taxes), to Maple Reinders Constructors Ltd. resulting from Tender No. 20-202: Annacis Island Wastewater Treatment Plant Gates and Hydraulic System for the Influent Control Channel Chamber, 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**

**5.6 Extension of Contract Resulting from RFP No. 15-092: Biosolids Soil Design, Fabrication, Marketing, Sales and Distribution**

Report dated December 8, 2020, from Roy Moulder, Director, Purchasing and Risk Management, Financial Services, and Lillian Zaremba, Program Manager, Utility Residuals Management, Liquid Waste Services, requesting the GVS&DD Board to approve a contract extension resulting from RFP No. 15-092 in an amount of up to \$7,339,000 (exclusive of taxes) to Arrow for the fabrication, marketing, sales and distribution of landscaping soil containing biosolids.

Staff provided members with a presentation regarding the Iona Island Wastewater Treatment Plant, the biosolids produced there and how they are contributing to the reclamation of various locations.

Presentation Material titled “Biosolids Beneficial Use Projects” is retained with the January 21, 2021 Liquid Waste Committee agenda.

**It was MOVED and SECONDED**

That the GVS&DD Board:

- a) approve a contract extension in the amount of up to \$7,339,000 (exclusive of taxes) to the current contractor, Arrow Transportation Systems Inc., for biosolids management resulting from Request for Proposal RFP No. 15-092: Biosolids Soil Design, Fabrication, Marketing, Sales and Distribution, 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**

**5.7 Award of Contract Resulting from Standing Request for Expression of Interest SRFOI No. 19-283: Biosolids Management at Fraser Valley Aggregates**

Report dated January 7, 2021, from Roy Moulder, Director, Purchasing and Risk Management, Financial Services, and Lillian Zaremba, Program Manager, Utility Residuals Management, Liquid Waste Services, advising the GVS&DD Board of the results of SRFOI No. 19-283: Biosolids Management, and recommending award of a contract in an amount of up to \$16,866,000 (exclusive of taxes) to Arrow Transportation Systems Inc., for the beneficial use of biosolids at the FVA gravel pits in Abbotsford.

**It was MOVED and SECONDED**

That the GVS&DD Board:

- a) approve award of a contract in the amount of up to \$16,866,000 (exclusive of taxes) to Arrow Transportation Systems Inc. for biosolids management at the Fraser Valley Aggregates gravel pits, resulting from Standing Request for Expressions of Interest No. 19-283: Biosolids Management, 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**

**5.8 Award of Contract Resulting from Standing Request for Expression of Interest SRFOI No. 19-283: Biosolids Management at Copper Mountain Mine**

Report dated December 8, 2020, from Roy Moulder, Director, Purchasing and Risk Management, Financial Services, and Lillian Zaremba, Program Manager, Utility Residuals Management, Liquid Waste Services, advising the GVS&DD Board of the

results of SRFOI No. 19-283: Biosolids Management, and recommending award of a contract in an amount of up to \$10,705,290 (exclusive of taxes) to Arrow, for the beneficial use of biosolids at Copper Mountain Mine.

**It was MOVED and SECONDED**

That the GVS&DD Board:

- a) approve award of a contract in the amount of up to \$10,705,290 (exclusive of taxes) to Arrow Transportation Services Inc. for biosolids management at Copper Mountain Mine, resulting from Standing Request for Expressions of Interest No. 19-283: Biosolids Management, 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**

**5.9 Manager's Report**

Report dated January 13, 2021, from Peter Navratil, General Manager, Liquid Waste Services, outlining Resilient Region Strategic Framework – Liquid Waste and Virtual Attendance at 2021 Standing Committee Events.

**It was MOVED and SECONDED**

That the Liquid Waste Committee receive for information the report dated January 13, 2021 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 Liquid Waste Committee close its regular meeting scheduled for January 21, 2021 pursuant to the *Community Charter* provisions, Section 90 (1) (e) 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:
- (e) the acquisition, disposition or expropriation of land or improvements, if the board or committee considers that disclosure could reasonably be expected to harm the interests of the regional district."

**CARRIED**



**10. ADJOURNMENT/CONCLUSION**

**It was MOVED and SECONDED**

That the Liquid Waste Committee adjourn its regular meeting of January 21, 2021.

**CARRIED**

(Time: 2:12 p.m.)

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Eva Haan,  
Legislative Services Coordinator

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Richard Stewart, Chair

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To: Liquid Waste Committee

From: Carol Nicolls, Communications Specialist, Corporate Communications, External Relations  
Larina Lopez, Division Manager Corporate Communications, External Relations

Date: January 28, 2021 Meeting Date: February 11, 2021

Subject: **Results for 2020 *Wipe It, Green Bin It* Campaign**

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### RECOMMENDATION

That the Liquid Waste Committee receive for information the report dated January 28, 2021, titled “Results for 2020 *Wipe It, Green Bin It* Campaign.”

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### EXECUTIVE SUMMARY

The 2020 *Wipe It, Green Bin It* campaign asked residents to put fats, oils and grease (FOG) in their green bins, not down their sinks. In addition to region-wide promotion, the campaign targeted hot spot areas in the City of Richmond and Township of Langley, where staff monitored FOG build-up in pump stations. The campaign ran in two phases (Thanksgiving and Christmas/holiday season) and included social media, online advertising, television, transit shelter advertising and mail-outs. Where possible, materials were tailored to hot spot areas. The campaign delivered over 10 million impressions and reached 476,000 residents through social media, showing solid levels of engagement on social media and the campaign website. In the hot spot areas, data trends show decreases in FOG levels corresponding to campaign efforts.

### PURPOSE

To update the Liquid Waste Committee on the 2020 *Wipe It, Green Bin It* campaign to reduce the disposal of fats, oils and grease into the wastewater system, which took place in the fall and winter of 2020.

### BACKGROUND

As a region, Metro Vancouver spends at least \$2.7 million every year to address issues related to the disposal of FOG into the wastewater system. FOG can clog sewers, contributing to overflows into homes, businesses and the environment, and associated maintenance and repair costs. Since 2017, Metro Vancouver has conducted regional *Wipe It, Green Bin It* campaigns to ask residents to dispose of FOG in their green bin instead of down their sink. Since 2019, the campaign expanded its focus to cover fats and oils, in addition to grease, and shifted its approach to include both region-wide approaches and problem ‘hot spot areas’ in municipalities. These approaches continued for the 2020 campaign.

This report provides an overview of the main results of the 2020 *Wipe It, Green Bin It* campaign, as identified in the 2020 Liquid Waste Committee Work Plan.

## **2020 FATS, OILS AND GREASE CAMPAIGN**

The 2020 campaign combined regional coverage with targeted tactics for the City of Richmond and Township of Langley, where the three hot spot areas were located. The campaign took place in two phases, from September 21 to November 1 and from December 14 - 31.

### **Campaign Elements and Approach**

The campaign was timed to target residents with messaging in the lead-up to Thanksgiving and the Christmas/holiday season. These are times of heavier holiday meals and previous campaigns have shown that this is an effective time to reach people with information on proper disposal of FOG.

The campaign included a media buy that focused largely on tactics that would reach people at home. The campaign was promoted via social media (Facebook, Twitter, Instagram), online platforms (YouTube, Pinterest), Google search and online advertising, and through public service announcements in English, Cantonese and Mandarin, which ran on various TV networks. Staff also conducted two televised interviews in Cantonese and Mandarin. Some digital tactics were specifically targeted to hot spot municipalities or related topics, such as advertising on cooking websites.

While it was not possible to conduct in-person outreach, the campaign was still able to reach people in relevant locations outside their homes through advertising in grocery stores (on shopping carts and grocery bars). Hot spot municipalities were also targeted with customized transit shelter advertising and a mail-out flyer.

### **Engagement with Members**

Campaign details and creative materials were shared with members' communication staff prior to the campaign's launch. All materials are made available for download on the Metro Vancouver website, and custom, co-branded materials were created upon request. The media buy included all Member jurisdictions, ensuring that the campaign ads appeared across the region. Campaign materials were used by six members, two building managers and two regional districts.

### **Results**

This is the second year of the hot spot areas approach and data trends show decreases in FOG levels corresponding to campaign efforts. Campaign results were assessed using FOG monitoring data from pump stations, media buy and website results.

#### *Digital Media Performance*

The campaign had a significant online component. The post-campaign report on media promotion shows that the digital and social media elements of the campaign generally performed well.

- The campaign reached an estimated 476,000 residents via Facebook and Instagram.
- The digital components delivered 10.7 million impressions, the majority of which came from Facebook, Instagram and YouTube.
- Digital channels (Facebook, Instagram, Twitter, YouTube and Pinterest) had almost 24,000 engagements (likes, shares, saves, comments, pins).
- Google Search terms related to FOG and online banner ads generated a total of 3,208 clicks for more information.
- Video ads resulted in over 89,000 video views.

- Information on the performance of the television placements is not yet available.

#### *Website Traffic*

The campaign webpage had 8,220 page views during over the two campaign phases, with visitors spending, on average, almost five minutes on the page. The time spent on the page is quite high, especially for a single webpage, and indicates that people took the time to read everything on the page and engage with the content.

#### **Impact of Fats, Oil and Grease on the Wastewater System**

As part of this campaign, Metro Vancouver, the Township of Langley and the City of Richmond have been using a visual rating scale to monitor FOG build-up in one Metro Vancouver pump station and two municipal pump stations in residential hot spot areas. In general, monitoring data from the hot spot areas showed a decrease in FOG levels following the campaign's launch, particularly around Thanksgiving. This monitoring should be considered as just one metric used to measure campaign success, but external conditions (such a rain and cleaning schedules) can affect FOG build-up. The use of the visual rating schedule is generally well received by participating members and has minimized the effort required by operations staff to quantify FOG build-up.

#### **PLANS FOR 2021 CAMPAIGN**

The campaign is scheduled to run again in 2021, likely with similar timing. The campaign will continue to focus on online options that reach a wider regional audience and will add in-person outreach should that become possible. The continuation of the hot spots approach in 2021 will be assessed to determine the best use of 2021 resources, as fewer members were able to participate in monitoring in hot spots areas in 2020, in part due to shifting staff priorities due to COVID-19. Many residents remain unaware of the various types of food that contain fats, oils or grease, so the campaign will continue to look for ways to increase this understanding. An additional source control behavior change effort this year, will be the development of a regional campaign to address contaminants of emerging concern (CEC's). The research, final direction, and creative development will be shared in coming months with Members and Committee, with a plan to launch in the Fall.

#### **ALTERNATIVES**

This is an information report. No alternatives are presented.

#### **FINANCIAL IMPLICATIONS**

The budget for the 2020 Wipe It, Green Bin It campaign was \$170,000. These costs were included in the 2020 Liquid Waste Communications Program Budget managed by the External Relations Department. A budget of \$100,000 has been allocated for the 2021 regional campaign. The additional source control behavior change campaign addressing contaminants of emerging concern (CEC's), being planned to launch in the Fall of 2021, is budgeted for \$195,000.

#### **CONCLUSION**

The disposal of fats, oils and grease (FOG) into the sewer system contributes to sewer clogs and overflows, costing Metro Vancouver and its members at least \$2.7 million to deal with on a yearly basis. The 2020 *Wipe It, Green Bin It* campaign ran in the lead-up to Thanksgiving and the Christmas/holiday season (Sept. 21 to Nov. 1 and Dec. 14 - 31) and addressed the proper disposal of

a range of FOG-related foods. In addition to region-wide promotion, the campaign also targeted the Township of Langley and City of Richmond, which identified and monitored FOG build-up in pump stations in three hot spot areas. Campaign elements included: promotion on social media, YouTube, online banner ads, Google search, television, advertising in grocery stores and transit shelters, and direct mail. Where possible, tactics were tailored to each hot spot municipality. Overall, the digital components of the campaign performed well, generating solid online engagement and website traffic, and monitoring at pump stations showed that FOG levels dropped following each phase of the campaign.

**Attachment:**

Samples of Campaign Materials

**Reference:**

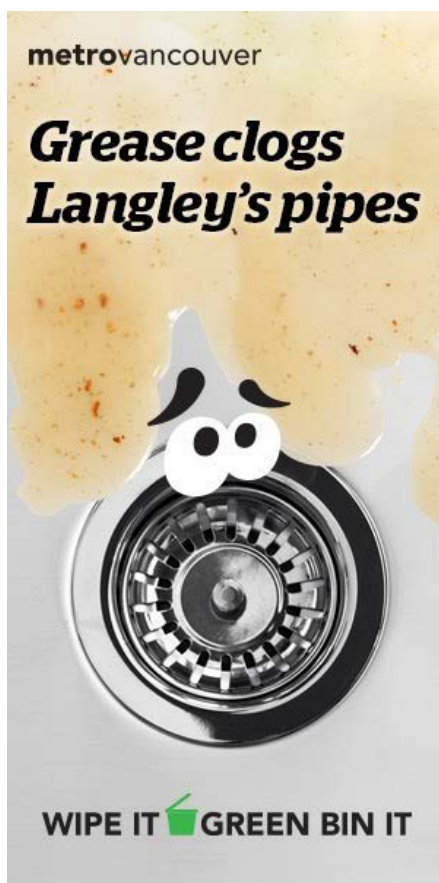
[Campaign webpage](#)

43290268

## Samples of Campaign Materials



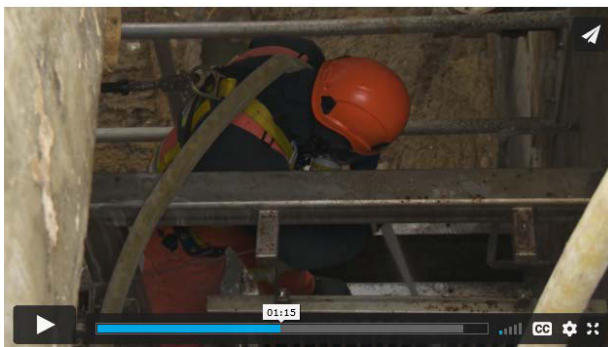
*Out-of-home advertising in grocery stores and transit shelters*



*Online advertising targeted to hot spots*



*City of Richmond campaign post*



*Campaign video showing pump station cleaning*

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To: Liquid Waste Committee

From: Peter Navratil, General Manager, Liquid Waste Services

Date: January 25, 2021

Meeting Date: February 11, 2021

Subject: **Manager's Report**

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### **RECOMMENDATION**

That the Liquid Waste Committee receive for information the report dated January 25, 2021 titled "Manager's Report".

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#### **1. Joint Metro Vancouver / Member Jurisdiction Utility Consultation Meetings**

Metro Vancouver senior management staff representing all three core utilities – Liquid Waste Services, Water Services and Solid Waste Services – normally meet (sub-regionally) three times a year with senior staff at member jurisdictions to help ensure effective and efficient coordination on projects and initiatives of common interest. These meetings are held in five different geographical groupings around the region and address a range of topics of both broad regional and local interest, as jointly established by staff from both Metro Vancouver and member jurisdictions.

There is a meeting series each summer focused on the development of a long-range capital plan for the Board's consideration each fall; there is also a general meeting series each spring and fall. In 2020, the spring meetings were cancelled due to staff priorities associated with pandemic response; however, the summer and fall meetings were completed as usual.

#### **2. Liquid Waste Committee 2021 Work Plan**

Attached is the updated 2021 Work Plan indicating the status of the Committee's key priorities for this year.

#### **Attachment:**

Liquid Waste Committee 2021 Work Plan

## Liquid Waste Committee 2021 Work Plan

Report Date: February 11, 2021

<b>Priorities</b>	
<b>1st Quarter</b>	<b>Status</b>
Fats, Oils and Grease 2020 Campaign Update	In Progress
Climate 2050 Infrastructure Discussion Paper	In Progress
Alternate Models for Single Sewerage Area Allocation	In Progress
Expanding Sewer Heat Recovery Opportunities to Reduce Greenhouse Gas Emissions	In Progress
Testing of the COVID - 19 Virus in Wastewater	In Progress
Review of Trucked Liquid Waste Provisions of the Sewer Use Bylaw	In Progress
Sustainability Innovation Fund Project Update	In Progress
Department Risk Management - Divisional Updates	In Progress
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	In Progress
Utility Policies (as applicable)	In Progress
Contract Approvals – Contracts > \$5M (as applicable)	In Progress
<b>2<sup>nd</sup> Quarter</b>	
Liquid Waste Services Capital Program Expenditures Update as at Dec 31, 2020	Pending
Integrated Liquid Waste and Resource Management Plan - Biennial Report: 2019-2020	Pending
Iona Island Wastewater Treatment Plant Project Definition	Pending
2020 GVS&DD Environmental Management and Quality Control Annual Report	Pending
Procurement Model for Implementation of a Regional Biosolids Drying Facility	Pending
Burrard Inlet Hydrodynamic Modelling Demonstration	Pending
Department Risk Management - Divisional Updates	Pending
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Pending
Utility Policies (as applicable)	Pending
Contract Approvals – Contracts > \$5M (as applicable)	Pending
<b>3rd Quarter</b>	
Liquid Waste Services Capital Program Expenditures Update as at April 30, 2021	Pending
Liquid Waste Services Environmental Management System Update	Pending
Sustainability Innovation Fund Project Update	Pending
Compounds of Environmental Concern Campaign Update	Pending
Department Risk Management - Divisional Updates and LWS Summary	Pending
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Pending
Utility Policies (as applicable)	Pending
Contract Approvals – Contracts > \$5M (as applicable)	Pending
<b>4th Quarter</b>	<b>Status</b>
Liquid Waste Services Capital Program Expenditures Update as at August 31, 2021	Pending
Annual Budget & 5 Year Financial Plan - Liquid Waste	Pending
Results of Unflushables Mini-Campaign	Pending
Review of Food Sector Bylaw	Pending
Integrated Liquid Waste and Resource Management Plan Review and Update	Pending
Asset Risk Management Consolidated Report	Pending
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Pending
Utility Policies (as applicable)	Pending
Contract Approvals – Contracts > \$5M (as applicable)	Pending





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To: Liquid Waste Committee

From: Dana Zheng, Program Manager, Policy, Planning and Analysis, Liquid Waste Services  
Jesse Montgomery, Division Manager, Environmental Management, Water Services

Date: February 3, 2021 Meeting Date: February 11, 2021

Subject: ***Climate 2050 Discussion Paper on Water and Wastewater Infrastructure***

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The attached report dated October 16, 2020 titled, "*Climate 2050 Discussion Paper on Water and Wastewater Infrastructure*" was considered by the Climate Action Committee at its meeting on November 13, 2020, and was received by the Greater Vancouver Sewerage and Drainage District Board for information at its meeting on November 27, 2020. This report is presented to the Liquid Waste Committee for its information only. A parallel report is being provided to the Water Committee at its February 11, 2021 meeting.

The discussion paper has been finalized and published on Metro Vancouver's website (Reference).

**Attachment**

"*Climate 2050 Discussion Paper on Water and Wastewater Infrastructure*", Climate Action Committee Report dated October 16, 2020 (41707408)

**Reference**

[Water and Wastewater Infrastructure Discussion Paper, January 2021](#)

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To: Climate Action Committee

From: Dana Zheng, Program Manager, Source Control, Liquid Waste Services  
Jesse Montgomery, Division Manager, Environmental Management, Water Services  
Sheryl Cumming, Project Engineer, Parks and Environment

Date: October 16, 2020 Meeting Date: November 13, 2020

Subject: ***Climate 2050 Discussion Paper on Water and Wastewater Infrastructure***

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## RECOMMENDATION

That the Climate Action Committee receive for information the report dated October 16, 2020, titled "*Climate 2050 Discussion Paper on Water and Wastewater Infrastructure*".

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## EXECUTIVE SUMMARY

In October 2019, the MVRD Board directed staff to begin an engagement process for a series of issue area discussion papers to support developing the *Climate 2050 Roadmaps*. Staff have developed a draft discussion paper on climate change issues related to managing water and wastewater infrastructure, including ways to reduce greenhouse gas emissions and adapt to a changing climate. This discussion paper will support public, stakeholder and government engagement for *Climate 2050* and the upcoming updates to the *Drinking Water Management Plan* and the *Liquid Waste Management Plan*. The draft *Climate 2050 Discussion Paper on Water and Wastewater Infrastructure* is being presented to the Climate Action Committee for information, and feedback provided will be incorporated into the final paper.

## PURPOSE

To provide the Climate Action Committee with information about the *Climate 2050 Discussion Paper on Water and Wastewater Infrastructure* to support development of the *Climate 2050 Roadmaps* and updates to the *Drinking Water Management Plan* and the *Liquid Waste Management Plan*.

## BACKGROUND

*Climate 2050* is an overarching long-term strategy that will guide our region's policies and collective actions to transition to a carbon neutral and resilient region over the next 30 years. Metro Vancouver is implementing *Climate 2050* through ten issue area Roadmaps, which will describe long-term goals, targets, strategies and actions to reduce regional greenhouse gases and ensure that this region is resilient to climate change impacts. Implementation of the Roadmaps will be driven by Metro Vancouver's management plans and other policies, including the upcoming updates to the *Drinking Water Management Plan* and the *Liquid Waste Management Plan*.

On October 4, 2019, the MVRD Board directed staff to begin an engagement process for a series of issue area discussion papers to support developing the *Climate 2050 Roadmaps*. Discussion papers for buildings, industry, transportation, agriculture, nature and ecosystems, and waste management were presented to the Climate Action Committee and MVRD Board in 2019 and 2020.

This report presents the draft *Climate 2050* Discussion Paper on Water and Wastewater Infrastructure (see Attachment), which will support engagement on greenhouse gas reduction and climate adaptation.

### **WATER AND WASTEWATER INFRASTRUCTURE DISCUSSION PAPER**

The *Climate 2050* Discussion Paper on Water and Wastewater Infrastructure includes long-term goals (i.e., with expected achievement by 2050) for greenhouse gas reduction and climate change adaptation, as shown below.

- Water infrastructure and operations aims to be carbon neutral.
- Wastewater infrastructure and operations aims to be better than carbon neutral.
- Water and wastewater infrastructure is resilient to the impacts of climate change, including high temperatures, severe weather, floods, wildfire impacts and supply chain disruptions.

The discussion paper includes example metrics, targets, actions and big ideas from other jurisdictions, to support discussions to identify targets and actions for this region. The paper also outlines expected climate hazards for the region's water and wastewater infrastructure. Feedback provided by the Committee will be reflected into the final discussion paper, on which public input will be sought.

### **Water and Wastewater Infrastructure Engagement Activities**

Metro Vancouver is planning activities to engage the public, stakeholders, and other governments, about climate action in the water and wastewater infrastructure issue area, including but not limited to:

- present to the Water Committee and the Liquid Waste Committee;
- present to the Regional Engineers Advisory Committee and its sub-committees;
- seek public and stakeholder input through a questionnaire and webinar; and
- communicate feedback opportunities on the Metro Vancouver website and promote on social media.

Additional engagement activities will be considered as Metro Vancouver continues to adapt to the challenges associated with COVID-19.

Engagement is intended to provide sufficient opportunity to interested parties to learn about the *Climate 2050 Roadmaps* and to provide feedback. Details on engagement will be available on the *Climate 2050* website (see Reference and will be promoted using social media, newsletters, professional associations and similar.

### **ALTERNATIVES**

This is an information report. No alternatives are presented.

### **FINANCIAL IMPLICATIONS**

The overall resources required to develop and engage on *Climate 2050 Roadmaps* have been approved in program budgets for 2020 and 2021, including staff time, to support the engagement process and evaluation of the climate and air quality impacts of proposed actions. Alignment of engagement activities and deliverables with the development of the *Climate 2050 Roadmaps* and other management plans (i.e., in this case, updates to the Drinking Water Management Plan and the

Liquid Waste Management Plan) is intended to make the best use of resources available, as well as minimize time commitments for interested parties providing feedback.

## **CONCLUSION**

Metro Vancouver is implementing *Climate 2050*, a long-term strategy to achieve a carbon neutral and resilient region over the next 30 years. A series of issue area discussion papers is being developed to provide an engagement tool to support developing the *Climate 2050 Roadmaps*.

The draft discussion paper presented here on the water and wastewater infrastructure issue area identifies goals, hazards, and example targets and actions for climate change adaptation and greenhouse gas reduction. Feedback from the public, stakeholders, and other governments will support the development of the *Climate 2050 Roadmaps*.

## **Attachment**

~~Climate 2050 Discussion Paper on Water and Wastewater Infrastructure (41918909)~~

## **Reference**

[www.metrovancouver.org/climate2050](http://www.metrovancouver.org/climate2050)

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