

**METRO VANCOUVER REGIONAL DISTRICT
LIQUID WASTE COMMITTEE**

REGULAR MEETING

June 18, 2020

1:00 p.m.

28th Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia

A G E N D A¹

1. ADOPTION OF THE AGENDA

1.1 June 18, 2020 Regular Meeting Agenda

That the Liquid Waste Committee adopt the agenda for its regular meeting scheduled for June 18, 2020 as circulated.

2. ADOPTION OF THE MINUTES

2.1 May 14, 2020 Regular Meeting Minutes

That the Liquid Waste Committee adopt the minutes of its regular meeting held May 14, 2020 as circulated.

3. DELEGATIONS

4. INVITED PRESENTATIONS

5. REPORTS FROM COMMITTEE OR STAFF

5.1 [Biosolids Improve Top Soil](#) (Video)

Designated Speaker: Peter Navratil, General Manager, Liquid Waste Services

5.2 Board Appointments and Rescindments of Bylaw Enforcement Officers

Designated Speaker: Ray Robb, Division Manager, Environmental Regulation and Enforcement, Parks and Environment

That the GVS&DD Board:

- a) pursuant to the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw* and the *Environmental Management Act*:
 - i. rescind the appointment of former City of Vancouver employee Ana Nic Lochlainn as a municipal sewage control officer; and

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

- ii. appoint Metro Vancouver employee Ana Nic Lochlainn as a municipal sewage control officer; and
 - iii. appoint City of Vancouver employee Upkar Matharu as a sewage control manager; and
 - iv. appoint City of Vancouver employee Sarah Wells as a deputy sewage control manager; and
 - v. rescind the appointment of City of Vancouver employee Mark Schwark as a sewage control manager.
- 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 Sewer Use Bylaw*:
- i. rescind the appointment of former City of Vancouver employee Ana Nic Lochlainn; and
 - ii. appoint Metro Vancouver employee Ana Nic Lochlainn.

5.3 Change in Greater Vancouver Sewerage and Drainage District Membership

Designated Speaker: Chris Plagnol, Corporate Officer and Director of Board and Information Services

That the GVS&DD Board receive for information the report dated June 2, 2020 titled, "Change in Greater Vancouver Sewerage and Drainage District Membership".

5.4 Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020 – Fraser Sewerage Area – Village of Anmore

Designated Speaker: Brent Burton, Division Manager, Policy, Planning and Analysis, Liquid Waste Services

That the GVS&DD Board:

- a) give first, second and third reading to the *Greater Vancouver Sewerage and Drainage District's Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020*; and,
- b) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District's Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020*.

5.5 Proposed Amendments to Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014 – Village of Anmore

Designated Speakers: Peter Navratil, General Manager, Liquid Waste Services, and Dean Rear, General Manager, Financial Services/CFO, Finance and Administration

That the GVS&DD Board:

- a) rescind third reading of the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019* given on November 1, 2019; and
- b) amend the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019* as outlined in Attachment 2 of the report dated June 5, 2020, titled "Proposed Amendments to Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014 – Village of Anmore"; and

- c) give third reading to the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019*, as amended; and
- d) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019*, as amended.

5.6 Development of a Review Strategy for the Integrated Liquid Waste and Resource Management Plan

Designated Speaker: Brent Burton, Division Manager, Policy, Planning and Analysis, Liquid Waste Services

That the Liquid Waste Committee receive for information the report dated May 26, 2020 titled "Development of a Review Strategy for the Integrated Liquid Waste and Resource Management Plan".

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

Designated Speakers: Roy Moulder, Director, Purchasing and Risk Management, Financial Services, and Janelle Hunt, Operations Supervisor, Utility Residuals Management, Liquid Waste Services

That the GVS&DD Board:

- a) authorize award of a contract in the amount of up to \$8,676,000 (exclusive of taxes) to Arrow Transportation Systems Inc. for biosolids management at Blackwell, 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 contract once the Commissioner is satisfied that the award should proceed.

5.8 Award of Engineering Construction Services – Burnaby Lake North Interceptor No. 2 – Winston Street Section – Open Cut Resulting from RFP No. 14-163

Designated Speakers: Roy Moulder, Director, Purchasing and Risk Management, Financial Services, and Colin Meldrum, Acting Director, Project Delivery, Liquid Waste Services

That the GVS&DD Board authorize:

- a) authorize award of Phase C1, Engineering Construction Services, for an amount of up to \$1,596,888 (exclusive of taxes) to the Phase A and B consultant, AECOM Canada Ltd, for the Installation of Burnaby Lake North Interceptor No. 2 – Winston Street Section – Open Cut, 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.

5.9 Manager's Report

Designated Speaker: Peter Navratil, General Manager, Liquid Waste Services

That the Liquid Waste Committee receive for information the report dated May 26, 2020 titled "Manager's Report".

6. INFORMATION ITEMS

6.1 Letter from Georgia Strait Alliance and Obabika Consultant Society re: Iona Island Wastewater Treatment Plant Project

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 June 18, 2020 pursuant to the *Community Charter* provisions, Section 90 (1) (e) as follows:

“90 (1) A part of a 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 June 18, 2020.

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

Svendsen, Ryan - Maple Ridge
Trentadue, Mary - New Westminster
van den Broek, Val - Langley City
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 1:01 p.m. on Thursday, May 14, 2020 in the 28th Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia.

MEMBERS PRESENT:

Chair, Mayor Richard Stewart, Coquitlam*
 Vice Chair, Councillor Lisa Dominato, Vancouver*
 Councillor Pietro Calendino, Burnaby*
 Councillor Doug Elford, Surrey*
 Councillor Steve Ferguson, Langley Township
 Mayor Mike Little, North Vancouver District*
 Councillor Alexa Loo, Richmond*
 Councillor Ryan Svendsen, Maple Ridge*
 Councillor Mary Trentadue, New Westminster*
 Mayor Val van den Broek, Langley City*
 Mayor Darryl Walker, White Rock*

MEMBERS ABSENT:

Councillor Bruce McDonald, Delta

STAFF PRESENT:

Peter Navratil, General Manager, Liquid Waste Services
 Jerry W. Dobrovolny, Chief Administrative Officer
 Janis Knaupp, Legislative Services Coordinator, Board and Information Services

1. ADOPTION OF THE AGENDA

1.1 May 14, 2020 Regular Meeting Agenda

It was MOVED and SECONDED

That the Liquid Waste Committee adopt the agenda for its regular meeting scheduled for May 14, 2020 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 March 12, 2020 Regular Meeting Minutes

It was MOVED and SECONDED

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

CARRIED

3. DELEGATIONS

No items presented.

4. INVITED PRESENTATIONS

No items presented.

5. REPORTS FROM COMMITTEE OR STAFF

5.1 Cariboo Dam Tainter Gates (Video)

Members were provided a video presentation about operations related to the newly completed Cariboo Dam Tainter Gates.

In response to questions, members were informed about Metro Vancouver's storm water management responsibility related to Burnaby Lake.

The video presentation is not retained with the agenda.

It was MOVED and SECONDED

That the Liquid Waste Committee receive for information the May 14, 2020 video presentation about the Cariboo Dam Tainter Gates.

CARRIED

5.2 Liquid Waste Services Capital Program Expenditure Update as at December 31, 2019

Report dated April 24, 2020 from Colin Meldrum, Acting Director, Project Delivery, Liquid Waste Services, reporting on the status of the Liquid Waste Services' capital program and financial performance for the year ending December 31, 2019.

Members were provided with a presentation on the Liquid Waste Capital Program Expenditure as of December 31, 2019 highlighting key projects.

In response to questions, members were informed about contract tendering processes for standard and complex projects, project components broken down into smaller contracts where better pricing and scheduling are identified, price forecasting and benchmarking, long range capital and budget planning, efforts related to the review of Metro Vancouver's capital projects, and about land application processes for biosolids from regional wastewater treatment facilities.

Presentation material titled “Liquid Waste Capital Program Expenditures as of December 31, 2019” is retained with the agenda.

It was MOVED and SECONDED

That the GVS&DD Board receive for information the report dated April 24, 2020, titled “Liquid Waste Services Capital Program Expenditures Update as at December 31, 2019”.

CARRIED

5.3 2020 Regional Unflushables Campaign - Update

Report dated April 29, 2020 from Larina Lopez, Division Manager, Corporate Communications, External Relations, providing an update on the 2020 regional Unflushables campaign to reduce the flushing of wipes, medications and other materials, which was launched in March to address concerns of increased use of wipes and other unflushables due to the coronavirus (COVID-19) pandemic.

It was MOVED and SECONDED

That the Liquid Waste Committee receive for information the report dated April 29, 2020, titled “2020 Regional Unflushables Campaign - Update”.

CARRIED

5.4 Manager’s Report

Report dated April 20, 2020 from Peter Navratil, General Manager, Liquid Waste Services, updating the Liquid Waste Committee on efforts to test COVID-19 in wastewater and the Committee’s 2020 Work Plan.

In response to questions, members were informed that staff continue to work with the BC Centre of Disease Control to improve understanding of the COVID-19 virus in wastewater and that there are no privacy concerns with RNA data sharing.

It was MOVED and SECONDED

That the Liquid Waste Committee receive for information the report dated April 20, 2020 titled “Manager’s Report”.

CARRIED

6. INFORMATION ITEMS

6.1 2020 Liquid Waste Sustainability Innovation Fund Application

Report dated March 24, 2020 together with report dated January 16, 2020 from Paul Kadota, from Paul Kadota, Policy, Planning and Analysis, Liquid Waste Services, presenting one project recommended for Sustainability Innovation Funding.

This report was considered by the Climate Action Committee on February 14, 2020 and GVS&DD Board on February 28, 2020 and is being presented to the Liquid Waste Committee for information only.

It was MOVED and SECONDED

That the Liquid Waste Committee receive for information the following Information Item presented in the May 14, 2020 agenda:

6.1 2020 Liquid Waste Sustainability Innovation Fund Application

CARRIED

7. OTHER BUSINESS

No items presented.

8. BUSINESS ARISING FROM DELEGATIONS

No items presented.

9. RESOLUTION TO CLOSE MEETING

No items presented.

10. ADJOURNMENT/CONCLUSION

It was MOVED and SECONDED

That the Liquid Waste Committee conclude its regular meeting of May 14, 2020.

CARRIED

(Time: 1:54 p.m.)

Janis Knaupp,
Legislative Services Coordinator

Richard Stewart, Chair

To: Liquid Waste Committee

From: Ray Robb, Division Manager, Environmental Regulation and Enforcement, Parks and Environment

Date: May 21, 2020 Meeting Date: June 18, 2020

Subject: **Board Appointments and Rescindments of Bylaw Enforcement Officers**

RECOMMENDATION

That the GVS&DD Board:

- a) pursuant to the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw* and the *Environmental Management Act*:
 - i. rescind the appointment of former City of Vancouver employee Ana Nic Lochlainn as a municipal sewage control officer; and
 - ii. appoint Metro Vancouver employee Ana Nic Lochlainn as a municipal sewage control officer; and
 - iii. appoint City of Vancouver employee Upkar Matharu as a sewage control manager; and
 - iv. appoint City of Vancouver employee Sarah Wells as a deputy sewage control manager; and
 - v. rescind the appointment of City of Vancouver employee Mark Schwark as a sewage control manager.
- 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 Sewer Use Bylaw*:
 - i. rescind the appointment of former City of Vancouver employee Ana Nic Lochlainn; and
 - ii. appoint Metro Vancouver employee Ana Nic Lochlainn.

EXECUTIVE SUMMARY

Recent changes in staff have resulted in a need to update staff appointments as GVS&DD Board-designated municipal sewage control managers and municipal sewage control officers under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw*, the *Environmental Management Act* and the *Offence Act*. Staff recommend that the GVS&DD Board appoint and rescind staff accordingly.

PURPOSE

To appoint and rescind appointments of Metro Vancouver and City of Vancouver employees as Board-designated municipal sewage control managers and municipal sewage control officers.

BACKGROUND

Employment status changes for Metro Vancouver and City of Vancouver environmental regulatory staff have resulted in a need to update staff appointments to ensure appropriate authority to advance liquid waste management goals. Section 29 of the *Environmental Management Act* and the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* grants authority to Board-designated municipal sewage control managers and municipal sewage control officers.

ROLE OF MUNICIPAL SEWAGE CONTROL OFFICERS

Metro Vancouver's Liquid Waste Regulatory Program supports the goals of the *Integrated Liquid Waste and Resource Management Plan* through regulation of the discharge of non-domestic wastes to the region's sanitary sewer systems.

Municipal sewage control officers may enter property, inspect works, and obtain records and other information to promote compliance with the Greater Vancouver Sewerage and Drainage District Liquid Waste Management bylaws.

Metro Vancouver staff are responsible for the administration of the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw* within the boundaries of the GVS&DD. Within the City of Vancouver, City staff have historically administered the provisions of the Bylaw. This arrangement has been in effect since the Bylaw was first enacted in 1990. A formal agreement between Metro Vancouver and the City of Vancouver was established to ensure that delivery of source control services by the City serves the interests of the GVS&DD and its taxpayers.

The *Offence Act* allows regional districts to appoint bylaw enforcement officers for the purpose of serving summons for bylaw violations. Officers, if appointed for that purpose, may serve a summons in respect of alleged offences under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw*.

ALTERNATIVES

1. That the GVS&DD Board:
 - a) pursuant to the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw* and the *Environmental Management Act*:
 - i. rescind the appointment of former City of Vancouver employee Ana Nic Lochlainn as a municipal sewage control officer; and
 - ii. appoint Metro Vancouver employee Ana Nic Lochlainn as a municipal sewage control officer; and
 - iii. appoint City of Vancouver employee Upkar Matharu as a sewage control manager; and
 - iv. appoint City of Vancouver employee Sarah Wells as a deputy sewage control manager; and
 - v. rescind the appointment of City of Vancouver employee Mark Schwark as a sewage control manager.
 - 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 Sewer Use Bylaw*:
 - i. rescind the appointment of former City of Vancouver employee Ana Nic Lochlainn; and
 - ii. appoint Metro Vancouver employee Ana Nic Lochlainn.
2. That the GVS&DD Board receive for information the report dated May 21, 2020, titled "Board Appointments and Rescindments of Bylaw Enforcement Officers" and provide alternative direction to staff.

FINANCIAL IMPLICATIONS

There are no financial implications for expenditures as the GVS&DD appointments are already on staff, and there are no financial implications for expenditures for rescindments.

CONCLUSION

Recent changes in staff have resulted in a need to update staff appointments as GVS&DD Board-designated municipal sewage control managers and municipal sewage control officers under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw*, the *Environmental Management Act*, and the *Offence Act*. Staff recommend Alternative 1.

39154062

To: Liquid Waste Committee

From: Chris Plagnol, Corporate Officer and Director of Board and Information Services

Date: June 2, 2020 Meeting Date: June 18, 2020

Subject: **Change in Greater Vancouver Sewerage and Drainage District Membership**

RECOMMENDATION

That the GVS&DD Board receive for information the report dated June 2, 2020 titled, "Change in Greater Vancouver Sewerage and Drainage District Membership".

EXECUTIVE SUMMARY

On June 1, 2020 the Lieutenant Governor of British Columbia signed an Order-in-Council granting the Village of Anmore (Anmore) membership in the Greater Vancouver Sewerage and Drainage District (GVS&DD) effective June 4, 2020. This was in response to a request by Anmore for membership in the GVS&DD in order to provide regional sewerage services to select local properties. The GVS&DD Board previously resolved to support Anmore's membership request to the Province. As a member of the GVS&DD, Anmore is entitled to representation on the GVS&DD Board. Director John McEwen, being the current Director appointed to serve on the Metro Vancouver Regional District (MVRD) Board, will serve as the GVS&DD Board member for Anmore and will have one vote.

PURPOSE

To inform the Board of a change in membership of the Greater Vancouver Sewerage and Drainage District.

BACKGROUND

The Village of Anmore (Anmore), which is currently a member of the Metro Vancouver Regional District, requested that the Province grant GVS&DD membership to Anmore to facilitate regional sewerage services to select properties within Anmore. To receive regional sewerage services, Anmore must be a member of the GVS&DD. At its meeting of March 29, 2019, the GVS&DD Board resolved to support Anmore's membership request.

As per Section 66 of the GVS&DD Act, *"The Lieutenant Governor in Council shall have absolute power and authority, upon the request of a municipality which is not a member of the Corporation, to order or refuse to order such municipality to be a member of the Corporation"*. On June 1, 2020, the Lieutenant Governor signed an Order-in-Council granting Anmore membership in the GVS&DD effective June 4, 2020 (Attachment).

GVS&DD MEMBERSHIP**Representation**

Pursuant to Section 66 of the GVS&DD Act, as a member of GVS&DD, Anmore is entitled to a representative on the Board and has the same number of votes to which they are entitled as a

member of the Board of MVRD. Director McEwen, being the current member appointed to serve on the MVRD Board, will serve as the current member on the GVS&DD Board and will have one vote.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

Financial implications, impacting Anmore and the GVS&DD, will be presented for GVS&DD Board consideration in the report dated June 5, 2020, titled "Proposed Amendments to Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014 – Village of Anmore".

OTHER IMPLICATIONS

To accommodate the serviced properties in Anmore, the Fraser Sewerage Area needs to be amended. A report recommending an amendment of the Fraser Sewerage Area, dated June 5, 2020, titled "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020 – Fraser Sewerage Area – Village of Anmore" will be presented to the GVS&DD Board for consideration.

CONCLUSION

The Lieutenant Governor of British Columbia signed an Order-in-Council granting the Village of Anmore membership in the GVS&DD. This was in response to a request by Anmore for membership in the GVS&DD in order to provide regional sewerage services to select properties within Anmore. The GVS&DD Board previously resolved to support Anmore's membership request. This report informs the GVS&DD Board of a change in membership and that, as a member of the GVS&DD, Anmore is entitled to representation on the GVS&DD Board.


Attachment

Province of British Columbia Order of the Lieutenant Governor in Council, dated June 1, 2020 (39397972)

39095940

PROVINCE OF BRITISH COLUMBIA
ORDER OF THE LIEUTENANT GOVERNOR IN COUNCIL

Order in Council No. 295, Approved and Ordered June 1, 2020



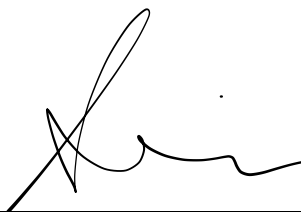
Lieutenant Governor

Executive Council Chambers, Victoria

On the recommendation of the undersigned, the Lieutenant Governor, by and with the advice and consent of the Executive Council, orders that, effective June 4, 2020, the Village of Anmore is a member of the Greater Vancouver Sewerage and Drainage District.



Minister of Municipal Affairs and Housing



Presiding Member of the Executive Council

(This part is for administrative purposes only and is not part of the Order.)

Authority under which Order is made:

Act and section: Greater Vancouver Sewerage and Drainage District Act, S.B.C. 1956, c. 59, s. 66

Other: _____

O20385837

To: Liquid Waste Committee

From: Brent Burton, Division Manager, Policy, Planning and Analysis, Liquid Waste Services

Date: June 5, 2020 Meeting Date: June 18, 2020

Subject: **Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020 – Fraser Sewerage Area – Village of Anmore**

RECOMMENDATION

That the GVS&DD Board:

- a) give first, second and third reading to the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020*; and,
 - b) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020*.
-

EXECUTIVE SUMMARY

On March 29, 2019, the Metro Vancouver Regional District (MVRD) Board resolved to accept a revised Regional Context Statement from the Village of Anmore (Anmore) which rezoned a strata property known as Anmore Green Estates (AGE) from “Rural” to “General Urban” land use. As all properties must be within an established sewerage area in order to receive regional sewer services, Anmore Council requested that the Greater Vancouver Sewerage and Drainage District (GVS&DD) amend the Fraser Sewerage Area (FSA) to include building footprints for AGE along with the Eagle Mountain Middle School property. All new connection costs would be borne by Anmore.

On June 1, 2020, the Province of British Columbia granted GVS&DD membership to Anmore, thus making it eligible to be considered for regional sewer services. Staff recommend that the GVS&DD Board approve Anmore’s request for an amendment of the FSA boundary.

PURPOSE

To seek GVS&DD Board approval to amend the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018* to include the building footprints for the existing homes at a strata complex known as Anmore Green Estates located in the Village of Anmore, along with the entire property of Eagle Mountain Middle School also located within Anmore (Attachment 1).

BACKGROUND

With the exception of Eagle Mountain Middle School, properties within Anmore are currently serviced through on-site sewage treatment systems. In 2014, under exceptional circumstances, the GVS&DD Board granted an exception to allow regional sewerage services to the school. In 2018, studies showing that septic runoff was flowing from the AGE property onto the adjacent school property resulted in the Province issuing a pollution abatement order to AGE. Subsequent

engineering studies showed that it was not feasible to repair AGE's on-site treatment system and recommended that AGE be connected to the regional sewerage system.

On June 1, 2020, the Province of British Columbia, through an Order-in-Council (Attachment 2), granted GVS&DD membership to Anmore. Membership in the GVS&DD allows properties within Anmore to be considered for regional sewerage services.

Sewerage area boundaries are fixed by the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw, No. 310, 2018*. Sewerage areas are occasionally amended through an amending bylaw and in accordance with Sections 31 and 32 of the GVS&DD Act, typically at the request of a GVS&DD member. On January 11, 2019, Metro Vancouver received the following Council resolution from Anmore:

Request the Greater Vancouver Sewerage and Drainage District Board support the Village of Anmore becoming a member of the Greater Vancouver Sewerage and Drainage District and, subject to becoming a member, expand the sewerage area to include the footprints of the existing 51 homes at Anmore Green Estates;

Subsequently, on February 10, 2020, Metro Vancouver received an Anmore Council resolution requesting that the entire Eagle Mountain Middle School property be included within the FSA:

THAT Council request the Greater Vancouver Sewerage and Drainage District to amend the Fraser Sewerage Area for Eagle Mountain Middle School to include all School District No. 43 owned lands at the middle school site.

METRO 2040 CONSIDERATION

Following adoption of *Metro 2040* (the Regional Growth Strategy) in 2011, Metro Vancouver procedures regarding the amendment of regional sewer services are subject to the provisions of *Metro 2040*. Therefore, any requests from member jurisdictions to amend a GVS&DD sewerage area that is not consistent with the provisions of *Metro 2040* must be presented to the MVRD Board for consideration. Once consistency with *Metro 2040* has been established, the decision to amend the sewerage area rests with the GVS&DD Board, subject to technical considerations. The following summarizes the MVRD considerations for this proposed boundary amendment:

- On January 11, 2019, Metro Vancouver received a Council resolution from Anmore requesting that the MVRD Board approve an amendment of their Regional Context statement to change the designation of the AGE property from "Rural" to "General Urban".
- On March 29, 2019, the MVRD Board resolved:

That the MVRD Board accept the Village of Anmore's amended Regional Context Statement as submitted to Metro Vancouver on January 11, 2019.

Properties with the “General Urban” land use designation meet the provisions for sewer services under *Metro 2040*. As such, the AGE property is eligible for regional sewerage services subject to approval of the GVS&DD Board.

GVS&DD CONSIDERATION

A GVS&DD technical review, which included an examination of financial, technical and operational impacts, along with impacts on service levels was completed.

- Anmore reports that all costs associated with connecting AGE to the regional sewerage system will be borne by AGE.
- GVS&DD analysis of the estimated sewage flows shows a negligible impact on the FSA sewerage system.

The GVS&DD does not have sewer infrastructure in or adjacent to Anmore. As such, Anmore and the City of Port Moody have entered into a servicing agreement for the City of Port Moody to convey Anmore’s sewage to the GVS&DD system. Should the GVS&DD Board resolve to amend the FSA, it is anticipated that AGE could connect to the regional sewer system by September 2020.

ALTERNATIVES

1. That the GVS&DD Board:
 - a) give first, second and third reading to the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020*; and,
 - b) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Amending Bylaw No. 338, 2020*.
2. That the GVS&DD Board receive for information the report dated June 5, 2020, titled “Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020 – Fraser Sewerage Area – Village of Anmore”, and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

On November 1, 2019 the GVS&DD Board passed first, second, and third reading of the *Greater Vancouver Sewerage and Drainage District Cost Apportionment Amending Bylaw No. 332, 2019* providing Anmore residents an exemption from annual GVS&DD growth levies due to a unique situation whereby all of the anticipated growth in Anmore would take place outside of the serviced area. The exemption will remain in effect until the FSA boundary within Anmore is further extended to service sites beyond the building footprints at AGE or sites beyond the FSA boundary at Eagle Mountain Middle School. The amending bylaw also includes a one-time connection charge for each unit in AGE. Final consideration of the amending bylaw is scheduled for the July 3, 2020 GVS&DD Board meeting. As reported by Anmore, all costs associated with connecting AGE with the regional sewerage system will be borne by AGE.

CONCLUSION

In 2019, the MVRD Board resolved to accept a revised Regional Context Statement from the Village of Anmore which rezoned Anmore Green Estates from a “Rural” to a “General Urban” designation,

thus making it eligible, under the provisions of *Metro 2040*, to be considered by the GVS&DD for provision of regional sewer service upon provincial approval of GVS&DD membership for Anmore. On June 1, 2020, the Province of British Columbia granted GVS&DD membership to Anmore.

To satisfy a provincial pollution abatement order, Anmore Council requested that the GVS&DD amend the Fraser Sewerage Area to include building footprints for Anmore Green Estates, along with the Eagle Mountain Middle School property. Technical analysis completed by staff indicates negligible resulting impact on the regional system and, furthermore, Anmore reports that all connection costs would be borne by Anmore Green Estates.

To alleviate the public health issue, and to provide regional sewerage services to the requested properties within Anmore, staff recommend Alternative 1.

Attachments

1. *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020* (38399495)
2. Province of British Columbia Order of the Lieutenant Governor in Council, dated June 1, 2020

37463322

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
BYLAW NO. 338, 2020**

A Bylaw to Amend the "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018"

WHEREAS:

- A. the Board of Directors of the Greater Vancouver Sewerage and Drainage District has adopted "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018", to fix the boundaries of GVS&DD Sewerage and Drainage Areas; and
- B. the Board of the Greater Vancouver Sewerage and Drainage District wishes to amend "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018";

NOW THEREFORE the Board of the Greater Vancouver Sewerage and Drainage District enacts as follows:

1. This bylaw may be cited as "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020".
2. "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018" is amended as follows:
 - a. by adding to the Fraser Sewerage Area lands the building footprints on the property known as Anmore Green Estates Strata Property #LMS 3080 located in the Village of Anmore and shown on the attached Schedule "A", forming part of this bylaw; and
 - b. by adding to the Fraser Sewerage Area lands the entire property of Eagle Mountain Middle School located at 110 Dogwood Drive in the Village of Anmore and shown on the attached Schedule "A", forming part of this bylaw; and
 - c. by replacing Schedule "B" with the attached Schedule "B", forming part of this bylaw, containing Drawing Number S-3200 Sheet 1 titled "Greater Vancouver Sewerage and Drainage District Plan of Fraser Sewerage Area" dated March 18, 2020 to show the boundaries of the Fraser Sewerage Area, as amended.

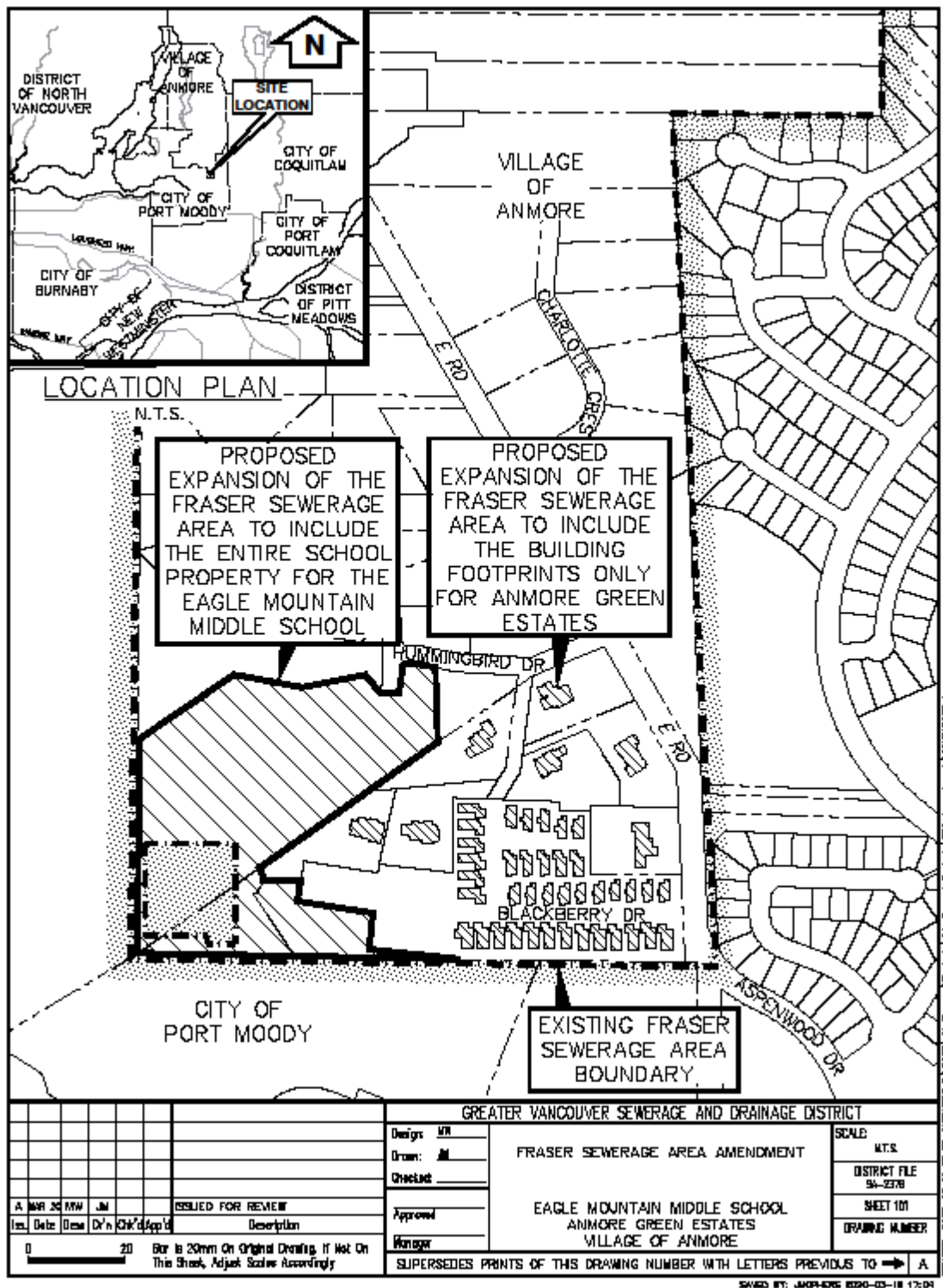
READ A FIRST, SECOND, AND THIRD TIME this _____ day of _____, 2020

PASSED, AND FINALLY ADOPTED this _____ day of _____, 2020

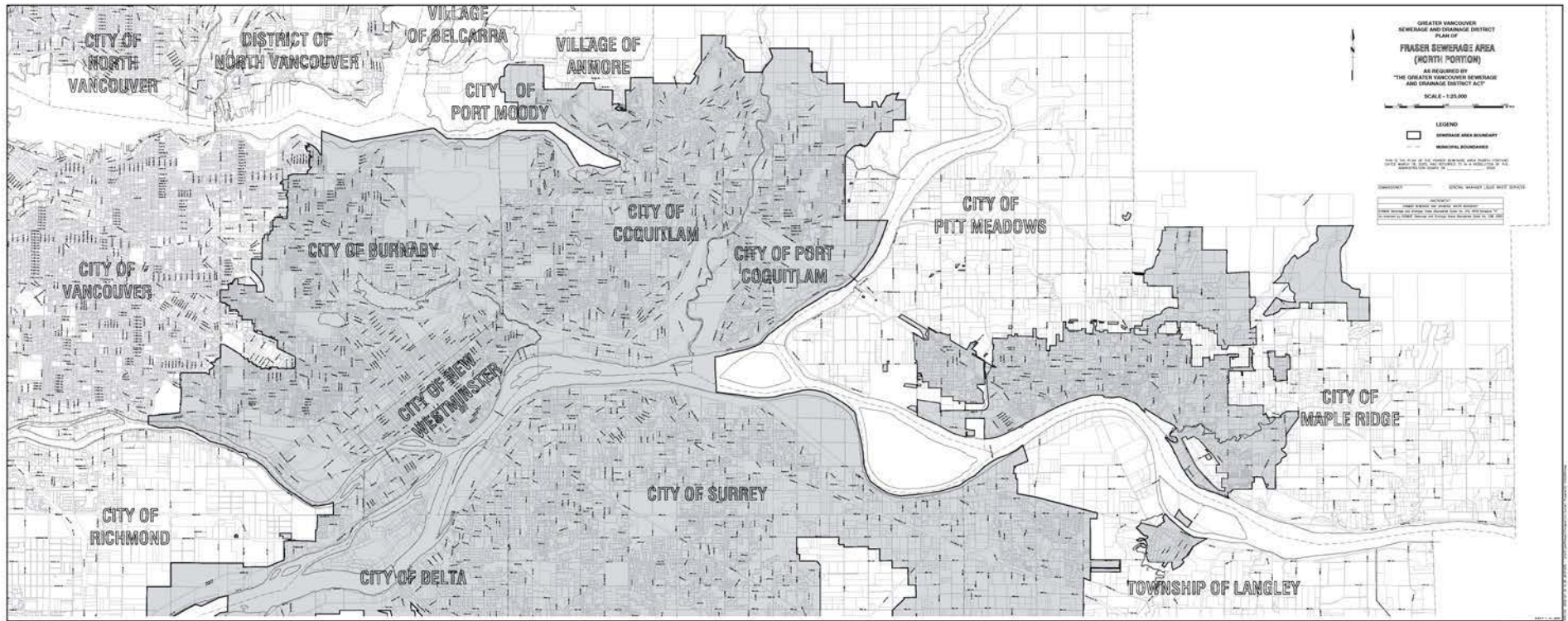
Sav Dhaliwal, Chair

Chris Plagnol, Corporate Officer

SCHEDULE "A" **PLAN IDENTIFYING PROPERTIES**



SCHEDULE "B"
MAP OF FRASER SEWERAGE AREA



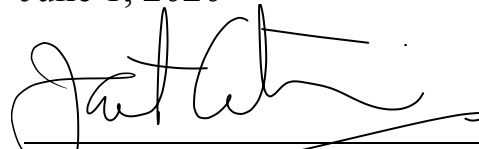
PROVINCE OF BRITISH COLUMBIA

ORDER OF THE LIEUTENANT GOVERNOR IN COUNCIL

Order in Council No. 295

, Approved and Ordered

June 1, 2020

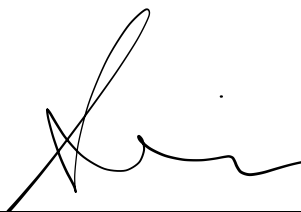

Lieutenant Governor

Executive Council Chambers, Victoria

On the recommendation of the undersigned, the Lieutenant Governor, by and with the advice and consent of the Executive Council, orders that, effective June 4, 2020, the Village of Anmore is a member of the Greater Vancouver Sewerage and Drainage District.



Minister of Municipal Affairs and Housing



Presiding Member of the Executive Council

(This part is for administrative purposes only and is not part of the Order.)

Authority under which Order is made:

Act and section: Greater Vancouver Sewerage and Drainage District Act, S.B.C. 1956, c. 59, s. 66

Other: _____

O20385837

To: Liquid Waste Committee

From: Peter Navratil, General Manager, Liquid Waste Services
Dean Rear, General Manager, Financial Services/CFO, Finance and Administration

Date: June 5, 2020 Meeting Date: June 18, 2020

Subject: **Proposed Amendments to Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014 – Village of Anmore**

RECOMMENDATION

That the GVS&DD Board:

- a) rescind third reading of the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019* given on November 1, 2019; and
 - b) amend the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019* as outlined in Attachment 2 of the report dated June 5, 2020, titled “Proposed Amendments to Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014 – Village of Anmore”; and
 - c) give third reading to the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019*, as amended; and
 - d) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019*, as amended.
-

EXECUTIVE SUMMARY

On November 1, 2019, the Greater Vancouver Sewerage and Drainage District (GVS&DD) Board gave first, second and third reading to an amendment of the *GVS&DD Cost Apportionment Bylaw*, providing the Village of Anmore (Anmore) with a conditional waiver from growth charges due to a unique situation whereby anticipated future growth would occur outside of the serviced area. However, under these special circumstances, Anmore would be required under the terms of the amendment to collect and submit a connection fee for each newly-serviced dwelling unit.

Since third reading of the amendment, some minor wording changes have been proposed to define the required schedule for submission of connection fees, annual charges and meter reading. Staff recommend that the GVS&DD Board rescind the third reading of the original amendment, and adopt the revised amendment as presented.

PURPOSE

To seek GVS&DD Board approval of proposed amendments to the *Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014* (Attachment 1) that define the required schedule for submission of fees to Metro Vancouver.

BACKGROUND

On June 1, 2020, the Province of British Columbia, through an Order-in-Council, granted GVS&DD membership to Anmore. This information was presented to the Board in the report titled “Change in Greater Vancouver Sewerage and Drainage District Membership”, dated June 2, 2020. Membership in the GVS&DD requires Anmore to assume the responsibilities of membership including annual levies as defined in the *GVS&DD Cost Apportionment Bylaw*. In addition, to receive regional sewerage services, properties must be included within a GVS&DD Sewerage Area. Amendments to the GVS&DD Fraser Sewerage Area (FSA) are presented for GVS&DD Board consideration in the report titled “Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020 – Fraser Sewerage Area – Village of Anmore”, dated June 5, 2020. These amendments include adding the entire Eagle Mountain Middle School property to the FSA, and adding the existing building footprints for Anmore Green Estates (AGE).

GROWTH CHARGE CALCULATION – COST APPORTIONMENT BYLAW

Under the *GVS&DD Cost Apportionment Bylaw*, the annual levy consists of three streams of costs:

1. Operating Expenditures: costs to operate the sewer facilities within the Sewerage Area (flow-based allocation);
2. Non-Growth Capital Expenditures: costs to replace aging existing infrastructure (flow-based allocation);
3. Growth Capital Expenditures: the net costs, after the application of Development Cost Charges (DCC), to expand facilities to accommodate growth within the Sewerage Area (costs allocated based on 5-year average population growth).

Anmore applied to the Province for membership in the GVS&DD to continue sewer services to Eagle Mountain Middle School, and to allow one strata property, known as AGE, to connect to the regional sewerage system. AGE’s existing on-site treatment system failed and studies showed it was not feasible to repair the on-site system and recommended connection to the regional system.

Sewer service being limited to two properties has left Anmore in a unique situation where future growth is expected outside the proposed sewer service area. In other GVS&DD municipalities, the vast majority of growth occurs within the sewer service area. As such, at the July 26, 2019 meeting the GVS&DD Board directed staff to review the *GVS&DD Cost Apportionment Bylaw No. 283, 2014* with respect to how growth charges are calculated and apportioned to Anmore. On November 1, 2019, an amended Cost Apportionment Bylaw was presented to the GVS&DD Board. The proposed amendments outlined terms including:

- that a connection fee be remitted by Anmore for all residential dwelling units initially added to the FSA; and,
- a conditional waiver of the growth charge which would remain in effect until such time that the Village of Anmore requests additional amendments to the Fraser Sewerage Area.

On November 1, 2019, the GVS&DD Board gave first, second and third reading to Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019 in anticipation of Anmore becoming a member of the GVS&DD (Attachment 1). Following third reading, and in consultation with Anmore, minor changes regarding the schedule for fee collection and meter reading have been made in the proposed

amending bylaw as noted in Attachment 2. As these changes were made following third reading, implementation would require the GVS&DD Board to rescind the original third reading and consider a new third reading of the amended bylaw. Further, the proposed amendment to the Cost Apportionment Bylaw, as shown in Attachment 2, proposes to add a new section 4.8(a) which makes reference to “further” extensions of the FSA boundaries. The reference to “further” extensions means extensions beyond the boundary extension proposed in the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 338, 2020*.

ALTERNATIVES

1. That the GVS&DD Board:
 - a) rescind third reading of the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019* given on November 1, 2019; and
 - b) amend the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019* as outlined in Attachment 2 of the report dated June 5, 2020, titled “Proposed Amendments to Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014 – Village of Anmore”; and
 - c) give third reading to the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019*, as amended; and
 - d) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019*, as amended.
2. That the GVS&DD Board pass and finally adopt the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019*, as read on November 1, 2019.
3. That the GVS&DD Board receive for information the report titled “Proposed Amendments to GVS&DD Cost Apportionment Bylaw No. 283, 2014 – Village of Anmore” dated June 5, 2020 and provide staff with alternate direction.

FINANCIAL IMPLICATIONS

The amended Cost Apportionment Bylaw would result in Anmore being levied a one-time connection charge equal to \$4,907 for each strata unit in AGE. Anmore would be exempt from growth charges until such time as they request an amendment to the FSA to accommodate future service expansion.

Specifically, the proposed amendments to the Cost Apportionment Bylaw are:

- that a connection fee be remitted by Anmore for all residential dwelling units initially added to the FSA; and,
- a conditional waiver of the growth charge which would remain in effect until such time as Anmore requests additional amendments of the FSA.

CONCLUSION

The Province of British Columbia has granted the Village of Anmore membership in the GVS&DD. Anmore is now subject to all the rights and responsibilities of GVS&DD membership including payment of annual levies. Anmore plans to service only two properties, leaving them in a unique situation whereby anticipated future growth will occur outside the proposed sewer service area.

The GVS&DD Board has given first, second and third reading to an amendment of the *Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014* to provide Anmore with a conditional waiver from growth charges until such time as they apply for future amendments to the Fraser Sewerage Area; the amendment also requires payment of a one-time connection fee for each newly serviced dwelling unit. Since the original third reading, some minor wording changes pertaining to fee schedules and meter reading have been proposed to the amending bylaw for consideration by the GVS&DD Board; adoption of the revised amending bylaw would require the Board to rescind the original third reading and reconsider a new third reading of the revised amending bylaw.

As there are no feasible alternatives for Anmore to provide sewer services to the impacted properties, staff recommend Alternative 1.

Attachments

1. *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019*, as read on November 1, 2019 (33110531)
2. Proposed Amendments to the *Greater Vancouver Sewerage and Drainage District Bylaw No. 332, 2019*

37454060

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
BYLAW NO. 332, 2019
A Bylaw to Amend Greater Vancouver Sewerage and Drainage District
Cost Apportionment Bylaw No. 283, 2014 to Allocate Charges to the Village of Anmore**

WHEREAS:

- A. the Board of Directors of the Greater Vancouver Sewerage and Drainage District adopted “Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014” on March 28th, 2014;
- B. “Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014” sets out the method of apportioning annual sewerage and drainage expenditures among the member municipalities, as permitted by section 55(4) of the Greater Vancouver Sewerage and Drainage District Act; and
- C. the Board of Directors of the Greater Vancouver Sewerage and Drainage District wishes to amend the “Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014”.

NOW THEREFORE the Board of the Greater Vancouver Sewerage and Drainage District enacts as follows:

Citation

- 1. This Bylaw may be cited as the “Greater Vancouver Sewerage and Drainage District Cost Apportionment Amending Bylaw No. 332, 2019”.

Amendment of Bylaw

- 2. “Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014” is hereby amended as follows:
 - (a) the definition “**Village of Anmore Flow**” is added to the definitions in section 1 in alphabetical order as follows:

“**Village of Anmore Flow**” in respect of any 12-month period means 80 percent of the average daily flow of water discharged from the Village of Anmore, as determined by the Corporation, and based upon:

 - (i) water metering at Anmore Green Estates and Eagle Mountain Middle School, and
 - (ii) such other data deemed relevant by the Corporation for making a determination of such average daily flow;

2. Section 4.8 is added as follows:

4.8 Special Apportionment for the Fraser Sewerage Area

- (a) Despite section 4.5, for the Fraser Sewerage Area, the Corporation will not apportion to the Village of Anmore costs apportioned to the Fraser Sewerage Area under sections 4.2 and 4.3, except if the Fraser Sewerage Area boundary within the Village of Anmore is further extended to service sites beyond the existing building footprint at Anmore Green Estates or sites beyond the Fraser Sewerage Area boundary at Eagle Mountain Middle School, in which case the Corporation will, in accordance with section 4.5, further apportion to the Village of Anmore as a member municipality those costs apportioned to the Fraser Sewerage Area under sections 4.2 and 4.3.

3. Section 7.4 is deleted and replaced as follows:

7.4 Except as otherwise provided in this bylaw, the total of:

- (a) the portion of the Regional Share apportioned to the Fraser Sewerage Area under section 6.1;
- (b) the Sewerage Area Share apportioned to the Fraser Sewerage Area under section 6.2;
- (c) the Tier I Non-Growth Component apportioned to the Fraser Sewerage Area under section 6.3; and
- (d) all other costs apportioned to the Fraser Sewerage Area pursuant to section 9,

will, except for the amount apportioned under section 8A.1, be apportioned among the member municipalities of the Fraser Sewerage Area in the proportion that 100% of the Dry Weather Flow for each member municipality during the five year period ending June 30 of the previous year, less 100% of the Industrial Flows for each such member during the same period, bears to 100% of the Dry Weather Flow for the entire Fraser Sewerage Area, less 100% of the Industrial Flows for the entire Fraser Sewerage Area, during the same period.

4. Section 8A is added as follows:

8A. Special Apportionment for the Fraser Sewerage Area

8A.1 For the purposes of further apportioning costs apportioned to the Fraser Sewerage Area, under section 7.4:

- (a) The amount to be apportioned to the Village of Anmore in respect of Anmore Green Estates and Eagle Mountain Middle School will be equal to that portion of the Tier I Non-Growth Component, Tier II Non-Growth Component and Tier III Non-Growth Component Costs apportioned to the Fraser Sewerage Area that are attributable to Village of Anmore Flow; and
- (b) As of the date of adoption of this Bylaw, for each individual residential strata lot that exists or is created within the Village of Anmore in the Fraser Sewerage Area, Anmore must pay to the Corporation a connection fee equivalent to \$4,907.00 per residential strata lot.

Read a first time this 1 day of November, 2020.

Read a second time this 1 day of November, 2020.

Read a third time this 1 day of November, 2020.

Passed and finally adopted this _____ day of _____, _____.

Sav Dhaliwal, Chair

Chris Plagnol, Corporate Officer

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
BYLAW NO. 332, 2019
A Bylaw to Amend Greater Vancouver Sewerage and Drainage District
Cost Apportionment Bylaw No. 283, 2014 to Allocate Charges to the Village of Anmore**

WHEREAS:

- A. the Board of Directors of the Greater Vancouver Sewerage and Drainage District adopted “Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014” on March 28th, 2014;
- B. “Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014” sets out the method of apportioning annual sewerage and drainage expenditures among the member municipalities, as permitted by section 55(4) of the Greater Vancouver Sewerage and Drainage District Act; and
- C. the Board of Directors of the Greater Vancouver Sewerage and Drainage District wishes to amend the “Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014”.

NOW THEREFORE the Board of the Greater Vancouver Sewerage and Drainage District enacts as follows:

Citation

- 1. This Bylaw may be cited as the “Greater Vancouver Sewerage and Drainage District Cost Apportionment Amending Bylaw No. 332, 2019”.

Amendment of Bylaw

- 2. “Greater Vancouver Sewerage and Drainage District Cost Apportionment Bylaw No. 283, 2014” is hereby amended as follows:

- (a) the definition “**Village of Anmore Flow**” is added to the definitions in section 1 in alphabetical order as follows:

“**Village of Anmore Flow**” in respect of any 12-month period means 80 percent of the average daily flow of water conveyed to Anmore Green Estates and to Eagle Mountain Middle School by the Village of Anmore water distribution system discharged from the Village of Anmore, as determined by the Corporation, and based upon:

- (i) water metering data collected quarterly by the Village of Anmore (or its authorized delegate) at Anmore Green Estates and Eagle Mountain Middle School, and delivered quarterly by the Village of Anmore to the Corporation, and

- (ii) such other data deemed relevant by the Corporation for making a determination of such average daily flow;

2. Section 4.8 is added as follows:

4.8 Special Apportionment for the Fraser Sewerage Area

- (a) Despite section 4.5, for the Fraser Sewerage Area, the Corporation will not apportion to the Village of Anmore costs apportioned to the Fraser Sewerage Area under sections 4.2 and 4.3, except if the Fraser Sewerage Area boundary within the Village of Anmore is further extended to service sites beyond the existing building footprint at Anmore Green Estates or sites beyond the Fraser Sewerage Area boundary at Eagle Mountain Middle School, in which case the Corporation will, in accordance with section 4.5, further apportion to the Village of Anmore as a member municipality those costs apportioned to the Fraser Sewerage Area under sections 4.2 and 4.3.

3. Section 7.4 is deleted and replaced as follows:

7.4 Except as otherwise provided in this bylaw, the total of:

- (a) the portion of the Regional Share apportioned to the Fraser Sewerage Area under section 6.1;
- (b) the Sewerage Area Share apportioned to the Fraser Sewerage Area under section 6.2;
- (c) the Tier I Non-Growth Component apportioned to the Fraser Sewerage Area under section 6.3; and
- (d) all other costs apportioned to the Fraser Sewerage Area pursuant to section 9,

will, except for the amount apportioned under section 8A.1, be apportioned among the member municipalities of the Fraser Sewerage Area in the proportion that 100% of the Dry Weather Flow for each member municipality during the five year period ending June 30 of the previous year, less 100% of the Industrial Flows for each such member during the same period, bears to 100% of the Dry Weather Flow for the entire Fraser Sewerage Area, less 100% of the Industrial Flows for the entire Fraser Sewerage Area, during the same period.

4. Section 8A is added as follows:

8A. Special Apportionment for the Fraser Sewerage Area

8A.1 For the purposes of further apportioning costs apportioned to the Fraser Sewerage Area, under section 7.4:

- (a) The amount to be apportioned to the Village of Anmore in respect of Anmore Green Estates and Eagle Mountain Middle School will be equal to that portion of the Tier I Non-Growth Component, Tier II Non-Growth Component and Tier III Non-Growth Component Costs apportioned to the Fraser Sewerage Area that are attributable to Village of Anmore Flow; and
- (b) As of the date of adoption of this Bylaw, for each individual residential strata lot that exists ~~or is created~~ within the Village of Anmore in the Fraser Sewerage Area, Anmore must pay to the Corporation by no later than August 15, 2021 a connection fee equivalent to \$4,907.00 per residential strata lot.

Read a first time this 1 day of November, 2019.

Read a second time this 1 day of November, 2019.

Read a third time this 1 day of November, 2019.

~~Third reading rescinded this _____ day of _____, _____.~~

~~Read a third time as amended this _____ day of _____, _____.~~

Passed and finally adopted this _____ day of _____, _____.

Sav Dhaliwal, Chair

Chris Plagnol, Corporate Officer

To: Liquid Waste Committee

From: Brent Burton, Division Manager, Policy, Planning and Analysis, Liquid Waste Services

Date: May 26, 2020 Meeting Date: June 18, 2020

Subject: **Development of a Review Strategy for the Integrated Liquid Waste and Resource Management Plan**

RECOMMENDATION

That the Liquid Waste Committee receive for information the report dated May 26, 2020 titled, "Development of a Review Strategy for the Integrated Liquid Waste and Resource Management Plan".

EXECUTIVE SUMMARY

The regional *Integrated Liquid Waste and Resource Management Plan* is due for review and update. Metro Vancouver is required to submit a review strategy to the Ministry of Environment and Climate Change Strategy by October 30, 2020. Staff are currently developing a review strategy and will seek the Liquid Waste Committee's direction prior to requesting GVS&DD Board approval to submit the review strategy to the Province. It is currently anticipated that the formal plan review and development process, including extensive community engagement, will be initiated in early 2021, subject to the timing and conditions of approval as determined by the Province. Staff estimate that the process will be completed in two to three years.

PURPOSE

To update the Liquid Waste Committee (LWC) on the development of a strategy to comprehensively review and update the regional *Integrated Liquid Waste and Resource Management Plan* (ILWRMP).

BACKGROUND

The provincial *Environmental Management Act* (EMA) allows local governments to develop a community-specific Liquid Waste Management Plan (LWMP) to meet or exceed existing regulations. Upon approval by the Ministry of Environment and Climate Change Strategy (MoECCS), these plans establish provincial authorization for discharges to the environment associated with the management of liquid waste according to criteria set out in the plan and facility-specific Operational Certificates.

The existing regional LWMP, titled as the ILWRMP, was endorsed by the Greater Vancouver Sewerage and Drainage District (GVS&DD) Board and its members prior to receiving provincial approval, subject to Ministerial conditions, in May, 2011. It establishes a range of requirements for both Metro Vancouver and its member jurisdictions. Every two years, Metro Vancouver, in coordination with its member jurisdictions, has been reporting to MoECCS detailing progress towards meeting the plan's goals.

One of the requirements of approval of the ILWRMP was that Metro Vancouver and its member jurisdictions undertake a comprehensive review of the plan in eight years. On September 28, 2018,

the GVS&DD Board requested that the Minister of MoECCS extend the review cycle from eight to ten years in order to allow for better alignment with key initiatives such as: indicative design for the Iona Island Wastewater Treatment Plant Project; *Climate 2050*; and improved sewer overflow management. On September 11, 2019, the Province authorized an extension to the comprehensive review cycle, to be initiated in 2021, subject to addressing seven conditions by October 30, 2020 (Attachment 1). Progress is being reported separately to the LWC on the first six conditions; this report provides an update on the seventh condition (“review strategy”) which stipulates that Metro Vancouver “prepare a comprehensive plan for the review of the ILWRMP that defines the scope of the review and how GVS&DD addressed the conditions of the May 30, 2011 Ministerial approval letter”.

REVIEW AND UPDATE OF THE INTEGRATED LIQUID WASTE AND RESOURCE MANAGEMENT PLAN

Overview

Metro Vancouver developed its first LWMP in 2002 and the second in 2011. The current 2011 plan uses a “Goals, Strategies, Actions” framework, with three goals as follows:

- Protect public health and the environment
- Use liquid waste as a resource
- Effective, affordable and collaborative management

Staff envision that the next plan will likely use a similar framework, building upon the strengths and successes of the current plan while modernizing it to reflect key themes and strategic direction identified in Metro Vancouver’s Board Strategic Plan, such as: financial sustainability and fairness; regional resilience; innovation in environmental protection; collaboration and engagement with local Indigenous Peoples; enhanced action on elimination of combined sewer overflows (CSOs) and improved management of inflow and infiltration; improved public awareness of the value of liquid waste management; and leadership on climate action. These themes may be addressed effectively through measures that include: enhanced source controls to better manage Constituents of Emerging Concern (CECs); continuing implementation of sewer separation for CSO management and green infrastructure for stormwater management; improved integration with emergency response; and development of improved performance indicators that inform rapid response to changing conditions.

Staff plan to initiate a comprehensive review of the existing ILWRMP in early 2021, subject to the timing of provincial response to Metro Vancouver’s review strategy, and complete a fulsome update in 2022 or 2023. This timeline is similar to the development timeframe of the existing ILWRMP, as well as anticipated timelines for both the Solid Waste Management Plan (SWMP) and the Drinking Water Management Plan (DWMP).

Coordination and Integration with Other Plans and Initiatives

Metro Vancouver will work to ensure that opportunities for alignment with plans and initiatives from other organizations and levels of government are fully reviewed during plan development. For example, provincial initiatives such as CleanBC, federal initiatives such as Infrastructure Canada’s Climate Lens, and best international practices on management of CECs will all need to be considered for integration into the new plan. Metro Vancouver and its members also have a variety of plans and initiatives that will need to be considered and/or coordinated with the review

and update of the ILWRMP to ensure alignment. Many of these plans are being developed on overlapping timelines, such as *Metro 2050*, *Climate 2050*, *Clean Air Plan*, SWMP and DWMP.

One Water Integration

Given similar development timelines, the new LWMP will be integrated with the new DWMP using a “One Water” framework. One Water unites the management of water, whether in the form of drinking water, wastewater or stormwater – offering paths forward that potentially turn challenges into opportunities with initiatives such as using reclaimed water to offset potable demand and increasing water efficiency to reduce inflow and infiltration.

The provincial *Interim Guidelines for Preparing Liquid Waste Management Plans* dated July 2011 (Reference 1) already actively encourage the integration of one water concepts, including water reuse and water conservation - supporting resource recovery and best use of wastewater infrastructure capacity. The Ministerial approval conditions for the ILWRMP also encourage implementation of residential water metering, municipal rebate programs for water efficient fixtures, and region-wide water conservation programs targeting the industrial, commercial, institutional and agricultural sectors. New directions could be explored for integration using a One Water framework. Staff currently envision that the next regional LWMP may be framed around a central vision of “Healthy Waters”, allowing unification of water in all its forms while supporting the potential for harmonized engagement and technical supporting studies.

Development of a Review Strategy

Pre-engagement activities are currently underway to inform the development of a review strategy, including communications with a broad range of environmental non-governmental organizations (ENGOS) and Indigenous Groups asking how they would like to be engaged throughout the process starting in 2021. As recommended by the Regional Engineers Advisory Committee, arrangements are currently being coordinated for a workshop with member jurisdictions, including the Regional Administrative Advisory Committee, to assist in establishing and prioritizing key regional and municipal priorities for the comprehensive review and update of the ILWRMP. Guidance received will be actively considered as a review strategy, outlining the anticipated scope of the review as per the Province’s requirements, is developed for GVS&DD Board approval prior to submission to MoECCS by October 30, 2020.

Development of an Engagement Plan

The provincial guidelines for LWMPs highlight the fundamental importance of broad and meaningful consultation throughout the development process, informed by expert technical advice. Staff have developed a draft Community Engagement Framework that identifies the proposed audiences, timeline and approaches for engaging audiences in reviewing and updating the ILWRMP (Attachment 2). This draft framework identifies three anticipated project phases, to be initiated upon MoECCS approval of the review strategy and subject to any additional conditions that may be imposed. The project team will seek endorsement from the LWC, and potentially the GVS&DD Board, at the initiation and conclusion of each phase.

This framework is informing the development of a comprehensive Engagement Plan, aligning with the Board policy on engagement, as a component of the review strategy currently being developed.

Technical Studies

A number of research and technical studies will be required to support staff in reviewing and updating the LWMP, informed by global best practices and applicable in the regional context given consideration to factors such as legislative requirements and climatic conditions. It is currently anticipated that these studies will address technical and financial topics, including Triple Bottom Line assessment of a broad range of potential actions that could address key challenges such as management and treatment of CECs and inflow and infiltration management. Opportunities to integrate the technical studies using a One Water framework will be implemented wherever reasonable. Staff will keep the LWC informed on the status of key studies as work progresses.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

A review strategy is being developed, relying on in-house staff resourcing as much as possible. Specialized consultant support will be scoped and added to the 2021 budget for the GVS&DD Board's consideration; staff will update the LWC as soon as possible should any conditions imposed by MoECCS necessitate revision to financial projections.

CONCLUSION

Staff are developing a strategy, including an engagement plan, to comprehensively review and update the *Integrated Liquid Waste and Resource Management Plan*. Staff will share this strategy with the Liquid Waste Committee for direction prior to seeking approval from the GVS&DD Board to submit it to the Ministry of Environment and Climate Change Strategy. Pending approval of the review strategy, staff intend to initiate the review and update development process in early 2021; this process is expected to take two to three years. Any financial implications will be reflected in operational budgets for review and approval by the Liquid Waste Committee and GVS&DD Board.

Attachments

1. Letter from the Ministry of Environment and Climate Change Strategy regarding the ILWRMP Extension, dated September 11, 2019 (39093706)
2. Draft Integrated Liquid Waste and Resource Management Plan: Review and Update Community Engagement Framework, dated May 19, 2020 (37374913)

References

1. [British Columbia Ministry of Environment Interim Guidelines for Preparing Liquid Waste Management Plans, revised July 2011](#)

39094485



Reference: 346762

X-Ref: 10400-60 LWMP Metro Vancouver

SEP 11 2019

Sav Dhaliwal, Chair
and Directors
Metro Vancouver Regional District
4730 Kingsway
Burnaby BC V5H 0C6

Dear Chair Dhaliwal and Directors:

I am writing to follow up on my email of December 11, 2018, regarding an amendment of the Greater Vancouver Sewerage and Drainage District (GVS&DD) Integrated Liquid Waste and Resource Management Plan (ILWRMP) to extend the plan review cycle timeline by two years, to 2021.

I am satisfied that the public notification is adequate to support an amendment to your ILWRMP. Pursuant to Section 24(5) of the *Environmental Management Act*, I hereby approve the amendment to extend the review cycle of the ILWRMP from eight to ten years (to be initiated in 2021), subject to the condition that the GVS&DD work with ministry staff to address the following actions:

1. Develop approaches to involve and collaborate with local Indigenous Peoples for the development and implementation of the ILWRMP.
2. Refresh terms of reference for the Environmental Monitoring Committee (EMC). This would include, but is not limited to, a review of the mandate and objectives, membership, roles and responsibilities, meeting frequency and revisiting how monitoring programs are designed, reviewed, implemented and amended.
3. Review the membership of the Stormwater Interagency Liaison Group and consider including municipal members in leadership positions. Seek comments and advice from the EMC regarding initial adaptive management framework reports associated with municipal integrated stormwater management plans.
4. Submit one comprehensive report for each of the GVS&DD receiving water bodies (Fraser River, Burrard Inlet, Boundary Bay and the Strait of Georgia). The terms of reference should be developed in consultation with ministry staff prior to completing each report.

...2

Ministry of Environment and
Climate Change Strategy

Office of the
Minister

Mailing Address:
Parliament Buildings
Victoria BC V8V 1X4

Telephone: 250 387-1187
Facsimile: 250 387-1356
Website: www.gov.bc.ca/cny

5. Promote transparency by ensuring that data and summary receiving environment and ambient monitoring reports for each of the GVS&DD receiving water bodies are made accessible to the public at an appropriate level of complexity.
6. Develop a system to notify the public, in real time, of sewer overflows and wastewater treatment interruptions.
7. Prepare a comprehensive plan for the review of the ILWRMP that defines the scope of the review and how GVS&DD addressed the conditions of the May 30, 2011, Ministerial approval letter.

These actions must be completed to the satisfaction of the Director, *Environmental Management Act*, no later than October 30, 2020.

Approval of the ILWRMP does not authorize entry upon, crossing over or use for any purposes of private or crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority shall rest with the local government. This ILWRMP is approved pursuant to the provisions of the *Environmental Management Act*, which asserts it is an offence to discharge waste without proper authorization. It is also GVS&DD's and member municipalities responsibility to ensure that all activities conducted under this ILWRMP are carried out with regard to the rights of third parties and comply with other applicable legislation that may be in force.

Sincerely,



George Heyman
Minister

cc: AJ Downie, Director, Authorizations – South, Environmental Protection Division,
Ministry of Environment and Climate Change Strategy

Integrated Liquid Waste and Resource Management Plan: Review and Update Community Engagement Framework

Overview

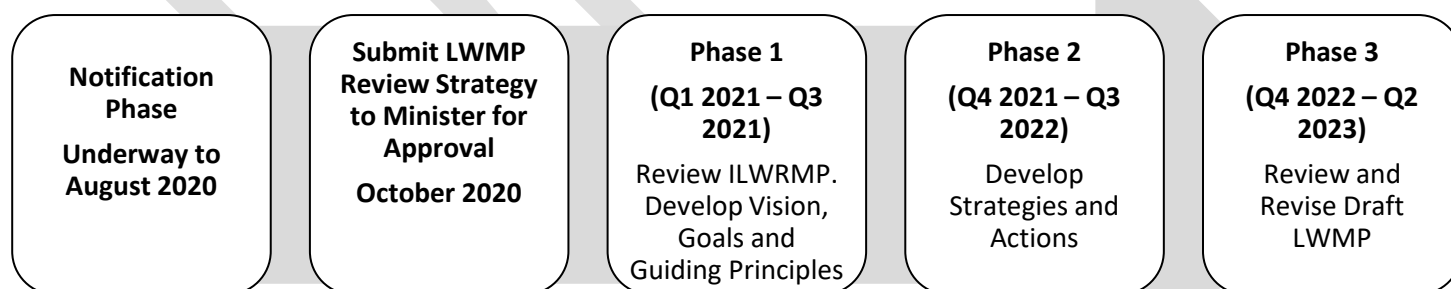
The Integrated Liquid Waste and Resource Management Plan (Plan), approved by the provincial government in 2011, establishes the coordinated approach for liquid waste management in the Metro Vancouver region. The Plan sets out goals, strategies and actions for Metro Vancouver and its member jurisdictions that help ensure the protection of public health and the environment, while using liquid waste as a resource. It requires approval by the Ministry of Environment and Climate Change Strategy (MoECCS). Although the Plan was originally intended to be reviewed after eight years, Metro Vancouver requested and was granted an extension of the Plan's comprehensive review cycle. Planning is now underway to prepare a new Liquid Waste Management Plan (LWMP) with efforts anticipated to start in early 2021.

Over the next three years, Metro Vancouver will engage member municipalities, residents and businesses, First Nations, environmental organizations, and government agencies to create a new Plan that continues to protect human health and the environment, and aligns with actions on climate change as well as the outcomes of important liquid waste management initiatives currently underway across the region.

This framework identifies the audiences, timelines and proposed approaches for engaging audiences in reviewing and updating the Plan. It will be updated regularly as the comprehensive Engagement Plan is developed.

Timeline

Review and update of the Plan will be initiated following Ministerial approval of a Review Strategy; therefore, the timing of each phase is approximate. The notification phase is underway and will help establish priorities for the new Plan and begin to identify how interested parties would like to participate in its development. The project team will seek endorsement from the Liquid Waste Committee, and potentially the GVS&DD, at each phase.



Staff meet regularly to explore opportunities to harmonize engagement processes with other initiatives underway, such as the Drinking Water Management Plan. In instances where engagement efforts may be integrated and/or better aligned, the LWMP Engagement Plan will be updated accordingly.

ENGAGEMENT AND COMMUNICATION GOAL:

Provide diverse and multiple opportunities for audiences to participate in developing the new LWMP

Audiences	Proposed Engagement Approaches	Engagement Phases
Member Jurisdictions	a. Hold a workshop including the Regional Administrative Advisory Committee (RAAC), Regional Engineering Advisory Committee (REAC) and REAC Liquid Waste Sub-Committee (REAC-LWSC) to help establish and prioritize key issues	Notification Phase
	b. Engage municipal staff through presentations and discussions at established committee meetings including RAAC, REAC, REAC-LWSC, Stormwater Interagency Liaison Group and Environmental Monitoring Committee	All Phases
	c. Hold a staff workshop series to guide Plan development	Phases 1 - 3
	d. Regular check-ins with the Liquid Waste Committee and GVS&DD Board	All Phases
First Nations	a. Engage First Nations in identifying a preferred approach to participate in developing the new Plan	Notification Phase
	b. Participate in the development of the new Plan (preferred approaches to be determined in Notification Phase)	Phases 1 - 3
Environmental, Academic and Industry Organizations	a. Establish and convene a Community Advisory Panel to provide expert knowledge and relevant experience	Phases 1 - 3
Metro Vancouver Residents	a. Hold events to build awareness of the LWMP, identify values, interests and priorities and receive input on the draft plan	All Phases
Metro Vancouver Businesses	a. Hold events to build awareness of the LWMP, identify values, interests and priorities and receive input on the draft plan	All Phases

To: Liquid Waste Committee

From: Roy Moulder, Director, Purchasing and Risk Management, Financial Services
Janelle Hunt, Operations Supervisor, Utility Residuals Management, Liquid Waste Services

Date: May 22, 2020 Meeting Date: June 18, 2020

Subject: **Award of Contract Resulting from Standing Request for Expression of Interest
SRFEOI No. 19-283: Biosolids Management**

RECOMMENDATION

That the GVS&DD Board:

- a) authorize award of a contract in the amount of up to \$8,676,000 (exclusive of taxes) to Arrow Transportation Systems Inc. for biosolids management at Blackwell, 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 contract once the Commissioner is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

Metro Vancouver biosolids have been beneficially used at the Blackwell property (Blackwell) since 2014 to reclaim disturbed land and rehabilitate it for use as farmland. Arrow Transportation Systems Inc. (Arrow) submitted a proposal to continue the beneficial use of biosolids at Blackwell in response to the Standing Request for Expressions of Interest (SRFEOI) No. 19-283: Biosolids Management. Arrow has demonstrated successful management of biosolids for Metro Vancouver and proposed a reasonable price. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute the contract to Arrow for an amount of up to \$8,676,000 (exclusive of taxes).

PURPOSE

This report is to advise the GVS&DD Board of the results of SRFEOI No. 19-283: Biosolids Management, and to recommend award of a contract in an amount of up to \$8,676,000 (exclusive of taxes) to Arrow Transportation Systems Inc., for the beneficial use of biosolids at the Blackwell property.

BACKGROUND

Pursuant to the *GVS&DD Officers and Delegation Bylaw No. 284, 2014* (Bylaw) and the *Procurement and Real Property Contracting Authority Policy* (Policy), procurement contracts that exceed a value of \$5 million require the approval of the Board of Directors.

This report is being brought forward to the Liquid Waste Committee to consider a recommendation to the GVS&DD Board to award a contract to Arrow to provide management of biosolids at Blackwell.

DESCRIPTION OF SERVICES

The scope of work includes the management and beneficial use of Class A and B biosolids generated at the Annacis Island, Lulu Island, Lions Gate and Iona Island Wastewater Treatment Plants (WWTPs). The biosolids will be mixed with native sand to create soil that will be used to reclaim land disturbed by gravel pits and rehabilitate and create farmland at the Blackwell property in Kamloops, BC.

Management of Metro Vancouver biosolids at Blackwell is currently conducted by Arrow under two separate contracts that will expire in 2020. Since 2014, Arrow has beneficially used 107,000 tonnes of Class A and B biosolids from Annacis Island, Lulu Island, and Lions Gate WWTPs, and 119,000 tonnes of land-dried biosolids from the Iona Island WWTP at the Blackwell property. Soil containing biosolids has increased the area of usable farmland at Blackwell by 25 acres. The services under the new contract will continue the land reclamation and agricultural enhancement at Blackwell.

SRFEI No. 19-283 is publicly advertised on Metro Vancouver's and BC Bid websites for parties interested in beneficially using biosolids. This SRFEI remains on Metro Vancouver's and BC Bid websites on an ongoing basis to solicit proposals for the beneficial of biosolids at any time.

Arrow's proposal demonstrated their experience and qualifications in managing biosolids, including their successful operation of biosolids management at Blackwell for Metro Vancouver since 2014. Negotiations were conducted with Arrow. The term is five (5) years, concluding on December 31, 2025. The amount of \$8,676,000 is based on biosolids quantities and site applications specified in Arrow's proposal. The rate per tonne is comparable to the cost of other Metro Vancouver biosolids beneficial use projects and is significantly less than the cost to dispose of biosolids in a landfill, which is not a beneficial use.

ALTERNATIVES

1. That the GVS&DD Board:
 - a) authorize award of a contract in the amount of up to \$8,676,000 (exclusive of taxes) to Arrow Transportation Systems Inc. for biosolids management at Blackwell, 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 contract once the Commissioner is satisfied that the award should proceed.
2. That the Liquid Waste Committee receive for information the report dated May 22, 2020, titled "Award of Contract Resulting from Standing Request for Expression of Interest SRFEI No. 19-283: Biosolids Management" and direct staff to report back to the GVS&DD Board with options for an alternate course of action.

FINANCIAL IMPLICATIONS

If the Board approves Alternative 1, a contract will be awarded to Arrow in the amount of up to \$8,676,000 (exclusive of taxes). This amount is within the Liquid Waste Services operating budget allocated for this work.

Under Alternative 2, staff will need to seek other options for the management of biosolids. Limited opportunities are available for beneficial use of biosolids that need to be continuously removed from WWTPs. If an alternative beneficial use option cannot be secured, biosolids will need to be disposed in a landfill, resulting in additional costs of up to \$1,980,000 over the course of this contract.

CONCLUSION

Arrow submitted a proposal under SRFEI No. 19-283: Biosolids Management. The proposed services will beneficially use biosolids to reclaim land at the Blackwell property. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute a contract with Arrow Transportation Systems Inc. in an amount of up to \$8,676,000 (exclusive of taxes).

34031648

To: Liquid Waste Committee

From: Roy Moulder, Director, Purchasing and Risk Management, Financial Services
Colin Meldrum, Acting Director, Project Delivery, Liquid Waste Services

Date: June 10, 2020 Meeting Date: June 18, 2020

Subject: **Award of Engineering Construction Services – Burnaby Lake North Interceptor No. 2 – Winston Street Section – Open Cut Resulting from RFP No. 14-163**

RECOMMENDATION

That the GVS&DD Board:

- a) authorize award of Phase C1, Engineering Construction Services, for an amount of up to \$1,596,888 (exclusive of taxes) to the Phase A and B consultant, AECOM Canada Ltd, for the Installation of Burnaby Lake North Interceptor No. 2 – Winston Street Section – Open Cut, 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.

EXECUTIVE SUMMARY

In 2014, GVS&DD issued Request for Proposal (RFP) 14-163: Consulting Engineering Services for Design and Construction of Burnaby Lake North Interceptor No. 2. Contracts for the preliminary and detailed design (Phases A and B) were awarded to AECOM Canada Ltd. (AECOM). It is recommended that the GVS&DD Board authorize the award of the first of these, namely Phase C1 – Winston Street Section – Open Cut, to AECOM, in an amount of \$1,596,888, and authorize the Commissioner and Corporate Officer to execute the required documentation.

The Burnaby Lake North Interceptor No. 2 is being built in four stages. This contract is for the engineering services for Stages 2 and 3, with the recommended award being specifically for the Engineering Construction Services related to Stage 2. At the February 28, 2020 meeting, the GVS&DD Board approved the award of the construction contract for this Stage to JJM Construction Ltd.

PURPOSE

This report is to request authorization by the GVS&DD Board to award Phase C1, Engineering Construction Services, in an amount of up to \$1,596,888 (exclusive of taxes) to Phase A and B consultant, AECOM Canada Ltd. (AECOM) for the Installation of BLNI2 – Winston Street Section – Open Cut.

BACKGROUND

Pursuant to the *GVS&DD Officers and Delegation Bylaw No. 284, 2014* (Bylaw) and the *Procurement and Real Property Contracting Authority Policy* (Policy), procurement contracts which exceed a value of \$5 million require the approval of the Board of Directors. For multi-phased consultancy contracts, the Policy provides that the value of the contract is the anticipated total value of the services to be provided over all phases, exclusive of taxes.

In 2014, GVS&DD issued the Proposal for Preliminary Engineering, Detailed Design, and Engineering Construction Services (Phases A, B and C, respectively) for the Winston Street Sections of the sewer. At that time, the name of the portion of the sewer contemplated for construction was Phase 2 – Phillips Section. The facility name has since been changed to better reflect the selected alignment.

AECOM was the successful proponent, and the contract was to be for the full duration of the project. The initial award was for Phase A only, with the remaining phases to be negotiated at a later date upon confirmation of scope and levels of effort. Phase B was negotiated and awarded in 2018.

This report is being brought forward to the Liquid Waste Committee to consider a recommendation to the GVS&DD Board to award Phase C1, Engineering Construction Services, for the installation of BLNI2 – Winston Street Section Phase 1 – Open Cut Section. The award of Phase C2, Engineering Construction Services for the installation of a tunneled section, will be brought forward at a later date.

At its February 28, 2020 meeting, the GVS&DD Board approved the award of the construction contract for the open cut section of this project to JJM Construction Ltd.

PROJECT DESCRIPTION

The BLNI2 sewer pipe will be located in North Burnaby spanning from east of Springer Avenue at Lougheed Highway to south of Government Road on Cariboo Road. Growth in the area has required sewer capacity upgrades of the existing Burnaby Lake North Interceptor. The upgrade of this sewer has been divided into the four Stages shown on Attachment 1, namely:

- Stage 1 - Sperling Section
- Stage 2 - Winston Street Section – Open Cut
- Stage 3 - Winston Street Section – Tunneled, and
- Stage 4 - Cariboo Section

The Sperling Section construction was completed in 2016. The Winston Street Section – Open Cut is scheduled to begin construction in Spring of 2020. The Winston Street Section – Tunneled, is planned to be tendered later this year. The Cariboo Section is currently in the planning stages.

ALTERNATIVES

1. That the GVS&DD Board:
 - a) authorize award of Phase C1, Engineering Construction Services, for an amount of up to \$1,596,888 (exclusive of taxes) to the Phase A and B consultant, AECOM Canada Ltd, for the Installation of Burnaby Lake North Interceptor No. 2 – Winston Street Section – Open Cut, 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.

2. That the GVS&DD Board terminate the contract with AECOM resulting from Request for Proposal (RFP) 14-163: Consulting Engineering Services for Burnaby Lake North Interceptor No. 2 – Phillips Section and direct staff to report back to the GVS&DD Board with options for an alternate course of action.

FINANCIAL IMPLICATIONS

If the GVS&DD Board approves Alternative 1, an amendment in the amount of up to \$1,596,888 will be added to the contract with AECOM. There is sufficient funding in the GVS&DD Board approved budget to accommodate this award. The final phase of work identified as Phase C2 will be negotiated and approval will be sought by the Board at a future date. The current value of the contract is \$3,860,796. This contemplated award will increase the value to \$5,457,684 (all values excluding taxes).

The GVS&DD Board has the choice to not proceed with Alternative 1 but staff will need further direction in relation to completion of the project. Alternative 2 will result in delay in construction of the BLNI2 Winston Street Section and possibly result in delay claims by the BLNI2 Winston Street Section contractor as any alternate approach will require time to engage a new consultant to provide the necessary construction engineering services.

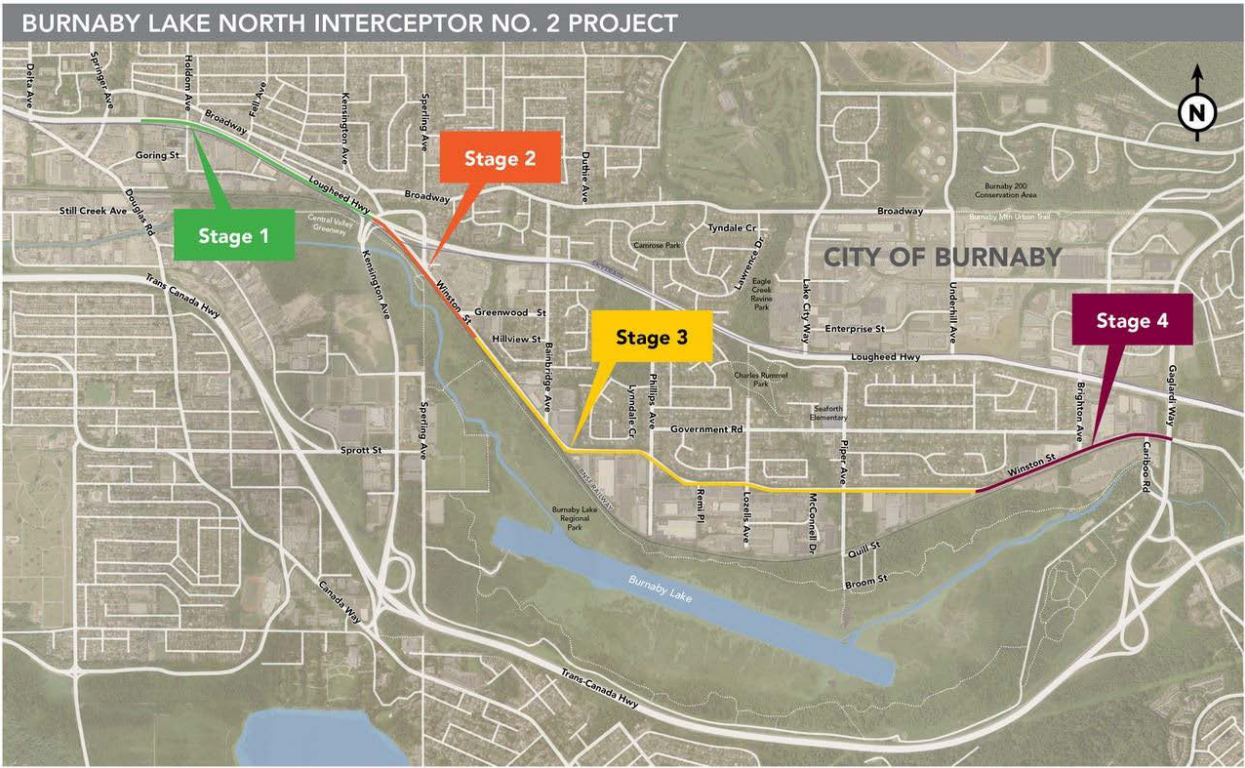
CONCLUSION

A Request for Proposal No. 14-163 was issued for consulting engineering services for Burnaby Lake North Interceptor No. 2 (BLNI2) and contemplated the work to be done in three phases. AECOM Canada Ltd. was the successful proponent.

It is recommended that the GVS&DD Board authorize the award of Phase C1, Engineering Construction Services, for the Installation of BLNI2 – Winston Street Section Phase 1 – Open Cut in the amount of up to \$1,596,888 (exclusive of taxes) to the Phase A and B consultant, AECOM Canada Ltd. and authorize the Commissioner and the Corporate Officer to execute the required documentation.

Attachment

Map of Burnaby Lake North Interceptor No. 2 Project



To: Liquid Waste Committee

From: Peter Navratil, General Manager, Liquid Waste Services

Date: May 26, 2020

Meeting Date: June 18, 2020

Subject: **Manager's Report**

RECOMMENDATION

That the Liquid Waste Committee receive for information the report dated May 26, 2020 titled "Manager's Report".

1. Annacis Island WWTP Cogeneration and Backup Power Facility

Liquid Waste Services recently completed the construction of the Annacis Island Wastewater Treatment Plant Cogeneration Back Up Power System. This system, which includes four 2 megawatt (MW) cogeneration engines and two 3 MW diesel backup generators (Attachment 1), helps Metro Vancouver achieve its sustainability and resiliency goals. The cogeneration engines use digester gas (bio-methane) as fuel, producing electricity and heat to be used in the plant. The engines are expected to use 96% of the plant's digester gas, a powerful greenhouse gas that would otherwise be flared into the atmosphere. The engines will generate over half of the plant's required electricity, saving about \$4,000 a day. The project also includes a heat recovery facility, upgrades to the HVAC system, and upgrades to the plant's 64 kV electrical substation. The new system, currently being commissioned, will also operate in the event of a power failure.

2. Liquid Waste Committee 2020 Work Plan

Attached is the updated 2020 Work Plan (Attachment 2) indicating the status of the Committee's key priorities for this year.

Attachments:

1. Cogeneration Engines and Backup Generators
2. Liquid Waste Committee 2020 Work Plan



Four New 2 MW Cogeneration Engines



Delivery of One of the Two 3 MW Diesel Backup Power Generators

Liquid Waste Committee 2020 Work Plan

Report Date: May 26, 2020

Priorities	
1st Quarter	Status
Iona Island Secondary Wastewater Treatment Plant Project Definition Quarterly Update	Complete
Fermentation Operations Bylaw Amendments	Complete
Long Term Financial Plan – Liquid Waste Scenarios	In Progress
2019 Fats, Oil and Grease Campaign Results	Complete
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Complete
Utility Policies (as applicable)	Complete
Contract Approvals – Contracts > \$5M (as applicable)	Complete
2nd Quarter	Status
Status of Liquid Waste Capital Expenditures	Complete
Iona Island Secondary Wastewater Treatment Plant Project Definition Quarterly Update	In Progress
Unflushables Campaign Update	Complete
Integrated Liquid Waste and Resource Management Plan Framework	In Progress
Capital Projects Policy Update	Pending
Effluent Heat Recovery Project at Lulu Island Wastewater Treatment Plant	In Progress
Sustainability Innovation Fund Project Updates	Complete
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	In Progress
Contract Approvals – Contracts > \$5M (as applicable)	In Progress
Utility Policies (as applicable)	In Progress
3rd Quarter	Status
Status of Liquid Waste Capital Expenditures	In Progress
2019 GVS&DD Environmental Management & Quality Control Annual Report	In Progress
Public Notification of Sewer Overflows & WWTP Process Interruptions Update	In Progress
Iona Island Secondary Wastewater Treatment Plant Project Definition Quarterly Update	Pending
Strategy for the Review of the Integrated Liquid Waste and Resource Management Plan	In Progress
Procurement Model for Implementation of a Regional Biosolids Drying Facility	Pending
Review of Food Sector Bylaw	Pending
Fats, Oils and Grease 2020 Campaign Update	Pending
Unflushables Campaign 2020 Results	Pending
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Pending
Contract Approvals – Contracts > \$5M (as applicable)	Pending
Utility Policies (as applicable)	Pending
4th Quarter	Status
Status of Liquid Waste Capital Expenditures	Pending
Annual Budget & 5 Year Financial Plan - Liquid Waste	Pending
Iona Island Wastewater Treatment Plant Project – Community Engagement Process	Pending
Iona Island Secondary Wastewater Treatment Plant Project Definition Report	Pending
Integrated Liquid Waste & Resource Management Plan Provincial Conditions	Pending
Review of Trucked Liquid Waste Provisions of the Sewer Use Bylaw	Pending
Public Notification of Sewer Overflows and WWTP Process Interruptions - MOE Conditions	Pending
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Pending
Contract Approvals – Contracts > \$5M (as applicable)	Pending
Utility Policies (as applicable)	Pending

June 4, 2020

Metro Vancouver Liquid Waste Committee
Metrotower III
4730 Kingsway
Burnaby, BC
V5H 0C6

Dear committee members,

We thank you for the opportunity to comment on the Iona Island Wastewater Treatment Plant Project (the Project) and recognize the great lengths that the Metro Vancouver team is taking to continue the Project, collect public input and overcome the serious challenges presented by the COVID-19 pandemic.

In the accompanying submission, we offer recommendations for the Project, aimed at preserving the integrity of the Salish Sea's aquatic ecosystems, marine biodiversity and coastal communities. Our recommendations are grounded in years of experience working to keep the region's waterways healthy, in support of those who rely on them most. The realization of these recommendations in the Project's final design would signal the Committee's movement towards much needed progressive environmental leadership and control a significant source of contaminants that cause harm to the Salish Sea and its inhabitants.

Georgia Strait Alliance (GSA) is a regional charitable organization that works to protect and restore the marine environment and promote the sustainability of the Strait of Georgia, one of Canada's most at-risk environments, and its adjoining waters and communities. Founded in 1990, GSA has over 18,000 members and supporters who work collectively to address root causes of threats to the Strait and find solutions that protect it.

Obabika is an environmental non-profit organization that works to amplify environmental efforts in British Columbia.

During our combined 35 years as advocates for the Salish Sea, the protection of wild salmon and at-risk species, including endangered Southern Resident orcas, has been a common thread. The health of wild salmon in particular is an indicator of the health of the region's ecosystems and coastal communities. That is why we have long been strongly in favour of national regulations and source control programs to reduce marine contamination in the marine and freshwater environments. This has included our advocacy for region-wide tertiary wastewater treatment.

Research shows overwhelmingly that contaminants negatively impact marine ecosystems. Sex ratios for fish populations living downstream from wastewater plants have been skewed because of wastewater effluent containing pharmaceuticals flowing into their habitat. Locally, pollution in the Salish Sea is putting Pacific salmon at risk and causing immune and endocrine system dysfunction in Southern Resident orcas.

Effluent from the Iona Island Plant flows into the Salish Sea at the mouth of the Fraser River. This effluent can carry persistent, bioaccumulative toxins including (but not limited to) PCBs, DDT, PFOS, PFOA, copper, phthalates, bisphenols, and current use pesticides, from household and industrial

sources. A significant body of scientific knowledge shows that these contaminants are of major concern to Chinook salmon and endangered Southern Resident orcas. This list of contaminants was recently validated by the federal government's Southern Resident orca Contaminants Technical Working Group, which was convened to develop strategies to mitigate the threat of marine contaminants to Southern Resident orcas and their prey. The Technical Working Group also identified wastewater effluent as a significant contributing source of several of these contaminants.

The Project represents one of the single greatest opportunities to considerably quell this known source of pollution to Salish Sea's waterways. It is imperative that the environmental impact of the treatment measures under consideration for the Project are made clear to the Committee. Incorporating, at a minimum, tertiary treatment methods that specifically target the above list of contaminants can help reverse the decline of the Southern Residents – of which only 72 remain. Additionally, constructing infrastructure to better treat the 8-10% of influent that receives treatment at or below the primary level during overflow or wet weather events, as indicated by Rick Bitcon at the May 19 Community Meeting, would also be beneficial as even the release of small quantities of contaminants can cause decades of harm to marine ecosystems.

We recognize that the cost of tertiary treatment presents a barrier. The following costs must be considered should only secondary treatment be included in the Project's final design:

- Cost of the loss of Salish Sea ecosystem function due to contamination;
- Economic impact on the region's ecotourism sector and fisheries, both of which have been devastated by the COVID-19 pandemic;
- Cost of the decline of the health of the region's marine wildlife and coastal communities; and the
- Future cost for the cleanup of contaminants and microplastics that will enter the Salish Sea via effluent from the Iona Island Plant.

Treating wastewater at the Iona Island Plant to the tertiary level at a minimum, and as soon as possible before the 2030 deadline, will prevent the above environmental costs and protect the health of the Salish Sea, its surrounding communities and inhabitants. Anything less than a tertiary treatment process would directly oppose Vancouver's Greenest City initiative and the federal Coastal Restoration Fund, as well as continue the flow of harmful contaminants into local waters. The Salish Sea and Fraser River are sensitive, ecologically important areas that are under ongoing stress and this is an opportunity to reduce that stress. The health of these invaluable places relies on decision-makers like you to take action that will offer the protection so desperately needed.

Thank you for considering our recommendations.

Regards,



Tessa Danelesko
Biodiversity Program Coordinator
Georgia Strait Alliance



Zack Shoom
Founding Director
Obabika Consultant Society