

METRO VANCOUVER REGIONAL DISTRICT LIQUID WASTE COMMITTEE

MEETING

Wednesday, July 15, 2026

9:00 am

The meeting will be held electronically on the Zoom platform

Members of the public may register to attend electronically to watch and hear the meeting.

Please visit our website for registration and for information about attending the meeting.

The link to the July 15, 2026 Liquid Waste Committee meeting page is

<https://metrovancover.org/boards/meeting/3382>

AGENDA

A. ADOPTION OF THE AGENDA

1. **July 15, 2026 Meeting Agenda**

THAT the Liquid Waste Committee adopt the agenda for its meeting scheduled for July 15, 2026 as circulated.

B. ADOPTION OF THE MINUTES

1. **June 17, 2026 Meeting Minutes**

THAT the Liquid Waste Committee adopt the minutes of its meeting held June 17, 2026 as circulated.

pg. 9

C. DELEGATIONS

D. INVITED PRESENTATIONS

E. REPORTS FROM COMMITTEE OR CHIEF ADMINISTRATIVE OFFICER

1. **Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services**

Report dated July 8, 2026 from Peter Navratil, General Manager, Liquid Waste Services.

pg. 14

Executive Summary

The Draft Five Year Capital Plan for Liquid Waste Services has been prepared following direction received at the April 15, 2026 Board Budget Workshop to prepare the Financial Plan and proceed through the 2027 budget cycle with household impact (HHI) targets as follows: 2027 at 3.0% and 2028 to 2031 at 5.0%.

Liquid Waste Services estimates capital spending of \$7.6 billion over the five years funded by a combination of long-term debt, reserves, contributions from the operating budget, some external contributions from other agencies, as well as Development Cost Charges (DCC) specifically funding growth projects. The net change from the previous five-year plan is an overall increase of \$784.8 million.

Recommendation

THAT the Liquid Waste Committee receive for information the report dated July 8, 2026, titled "Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services".

2. 2026 Liquid Waste Services Capital Program Update No. 2

pg. 33

Report dated June 26, 2026 from Colin Meldrum, Director, Engineering, Design, and Construction, Liquid Waste Services, and Jennifer Crosby, Director, Project Delivery.

Executive Summary

This report provides a status update of the GVS&DD Capital Program with summaries for larger projects (i.e. cost of >\$100M), highlighting progress, schedule, budget, and upcoming milestones, and an overall summary of remaining projects. As part of the GVS&DD capital planning process, the timing of each project is reviewed and updated annually based on available resources, strategic prioritization, risk to system operations and financial sustainability. These updates are provided three times a year for the Liquid Waste Committee and GVS&DD Board in February, July, and November to provide timely line of sight for the April Board Budget Workshop, input into the annual budget and Five-Year Financial Plan for October, and an end of year update. Individual project reports will continue to be provided as needed, particularly at key decision-making milestones.

Recommendation

THAT the GVS&DD Board receive for information the report dated June 26, 2026 titled "2026 Liquid Waste Services Capital Program Update No. 2".

3. Sewage Diversion and Funding Agreement for Richmond Sewer Heat Recovery Project

pg. 55

Report dated June 15, 2026 from Winson Cheng, Senior Project Engineer, Business Development, Liquid Waste Services.

Executive Summary

This report seeks authorization to execute a Sewage Diversion and Funding Agreement with Lulu Island Energy Company (LIEC), as directed by the GVS&DD Board, in alignment with the Sewage and Waste: Heat Recovery Policy, using approved capital funds. The agreement is based on a GVS&DD Board resolution from November 24, 2023 that authorized a capital expenditure for this sewer heat recovery project and directed staff to enter into contract negotiations with LIEC.

Recommendation

THAT the GVS&DD Board authorize:

- a) the investment of \$10 million (exclusive of taxes) from approved capital budget funds for GVS&DD infrastructure for a sewer heat recovery project; and
- b) the GVS&DD Commissioner to execute the finalized agreement.

4. Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026 pg. 69

Report dated June 15, 2026 from Dana Zheng, Program Manager, Policy, Planning and Analysis, Liquid Waste Services.

Executive Summary

The *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026* is presented for Board consideration and adoption.

In January 2025, staff received Board direction to update rates annually starting with phased-in rate increases over two years for 2025 to 2026. Now that the phase-in period has concluded, this amendment bylaw proposes new trucked liquid waste (TLW) discharge fees for 2027 that will recover 100% of costs to receive and treat trucked liquid waste discharges. The proposed rates for 2027 will increase by 4% compared with 2026 rates, to bring in a projected revenue of \$7.2 million.

Five-year rate projections are provided to help the industry anticipate future fee changes. These projections have been well-received by stakeholders as they provide predictability for planning purposes.

Recommendation

THAT the GVS&DD Board:

- a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026*; and
- b) adopt the *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026*.

5. Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026 – Fraser Sewerage Area – Surrey (Hazelmere) pg. 75

Report dated June 11, 2026 from Maria Edwards, Project Engineer, Policy Planning and Analysis, Liquid Waste Services.

Executive Summary

The City of Surrey requested that the FSA boundary be amended to include a 23.7-hectare area at 18115, 18147, and 18253 – 0 Avenue in Surrey (Hazelmere). The proposed development is a 145-lot residential subdivision with a maximum potential build out of 580 units.

A Liquid Waste Services review found the site is about 10 km from the nearest GVS&DD sewer main, dry weather impacts on regional infrastructure would be negligible, and wet weather overflows may increase slightly during major events, but impacts are expected to be manageable as long as growth expansion projects for the Cloverdale Trunk Sewer and Cloverdale Pump Station are completed as contemplated in the currently endorsed 2026-2030 Capital Plan.

As the application, on its own, is consistent with *Metro 2050* sewer service provisions and raises no significant regional technical or financial concerns, staff recommend adoption of the bylaw to amend the Fraser Sewerage Area (FSA) boundary to include the subject properties identified in Schedule A of the bylaw attached to this report.

If the City of Surrey proposes additional FSA amendment applications in the Hazelmere Valley, more in depth utility planning, by both the City and GVS&DD will be required to ensure regional systems can accommodate the additional growth.

Recommendation

THAT the GVS&DD Board:

- a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026*; and
- b) adopt *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026*.

6. Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026 – Fraser Sewerage Area – Maple Ridge (North 256 Street Industrial Lands) pg. 82

Report dated June 11, 2026 from Maria Edwards, Project Engineer, Policy Planning and Analysis, Liquid Waste Services.

Executive Summary

The City of Maple Ridge requested that the Fraser Sewerage Area (FSA) boundary be amended to include the properties in the North 256 Street Industrial Lands Area Plan that are not already within the FSA. The proposed development scenario is a light industrial hub consistent with the Area Plan.

A technical review by Liquid Waste Services confirmed that the proposed development can be accommodated within the regional sewerage system, with negligible dry weather impacts, manageable wet weather impacts, and no need for additional regional infrastructure beyond what is already planned.

As the application is consistent with *Metro 2050* sewer service provisions and presents no significant regional technical or financial concerns, staff recommend adoption of the bylaw to amend the FSA boundary to include the subject properties identified in Schedule A of the bylaw attached to the report.

Recommendation

THAT the GVS&DD Board:

- a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026*; and
- b) adopt *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026*.

7. Award of RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank *pg. 89*

Report dated May 29, 2026 from Joan Liu, Division Manager, Liquid Waste Services EDC Collection Systems, and George Kavouras, Director, Procurement, Procurement & Real Estate Services.

Executive Summary

Jacob Bros. Construction Inc.'s proposal ranked highest overall, provided the lowest cost and the highest technical score, and demonstrated best value overall for Metro Vancouver.

The work to be provided under RFP 25-038 involves realigning a section of the existing North Surrey Interceptor to enable construction of the future North Surrey Storage Tank, which will reduce sanitary sewer overflows into the Fraser River during wet weather and enable sewer inspections and maintenance during low flow periods. More specifically, this work includes preload activities; installation of 190 metres of 1200 millimetre (mm) diameter reinforced concrete pipe supported on piles; implementation of bypass systems; tie-ins and decommissioning of the existing North Surrey Interceptor; and provisional improvements along 115 Avenue and 136A Street.

RFP 25-038 was issued February 23, 2026. RFP 25-038 was advertised publicly and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 25-038 evaluation team has considered the proposals received, and on that basis recommends that the GVS&DD Board award RFP 25-038 to Jacob Bros. Construction Inc.

Recommendation

THAT the GVS&DD Board:

- a) approve the award of RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank, in the amount of up to \$28,335,710.00 (exclusive of taxes) to Jacob Bros. Construction Inc., subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

8. Award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works *pg. 92*

Report dated May 26, 2026 from George Kavouras, Director, Procurement, Procurement & Real Estate Services, and Bob Cheng, Director, Major Projects, Project Delivery.

Executive Summary

Stantec Consulting Ltd.'s proposal ranked highest overall, had the highest technical score, and demonstrated best value overall for Metro Vancouver.

Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works are required to increase the service population from 1.25 million to 1.5 million residents. Construction management services are required to manage five (5) remaining work packages.

RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works was issued on December 19, 2025 to three (3) prequalified respondents of RFQ 25-246 – Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Expansion and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 25-596 evaluation team have reviewed the proposals received, and on that basis recommend that the GVS&DD award RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works to Stantec Consulting Ltd.

Recommendation

THAT the GVS&DD Board:

- a) approve the award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works, in the amount of up to \$16,594,975.60 (exclusive of taxes) to Stantec Consulting Ltd. for a term of five years, subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

9. **Award of Construction and Post-Construction Engineering Services for RFP 20-358 Engineering Services for Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters** *pg. 95*
Report dated June 26, 2026 from George Kavouras, Director, Procurement, Procurement & Real Estate Services, and Bob Cheng, Director, Major Projects, Project Delivery.

Executive Summary

RFP 20-358 was awarded to the highest-ranked and best overall proponent, Brown and Caldwell, in January 2022 following a public procurement process. The RFP included Preliminary and Detailed Design Services, as well as Construction and Post-Construction Engineering Services. The initial award covered only the Preliminary and Detailed Design. As outlined in the RFP, the subsequent Construction and Post-Construction Services were to be negotiated upon successful completion of the design phase and brought forward to the GVS&DD Board for approval. Negotiations have now concluded. It is recommended that the GVS&DD Board award the Construction and Post-Construction Engineering Services to Brown and Caldwell in the amount of \$29,952,375 (exclusive of taxes). The Annacis Island Wastewater Treatment Plant Stage 5 Expansion will increase the capacity of the plant to accommodate regional growth.

Recommendation

THAT the GVS&DD Board:

- a) approve the award of Construction and Post-Construction Engineering Services for RFP 20-358 Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters, in the amount of up to \$29,952,375 (exclusive of taxes) to Brown and Caldwell Consultants Canada Ltd. for a term of five (5) years, subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

10. Manager's Report*pg. 98*

Report dated July 7, 2026 from Peter Navratil, General Manager, Liquid Waste Services.

Recommendation

THAT the Liquid Waste Committee receive for information the report dated July 7, 2026, titled "Manager's Report".

F. INFORMATION ITEMS**G. OTHER BUSINESS****H. 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 meeting scheduled for July 15, 2026 pursuant to Section 226 (1) (a) of the *Local Government Act* and the *Community Charter* provisions as follows:

- 90 (1) A part of a council meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:
- (g) litigation or potential litigation affecting the municipality; and
 - (k) negotiations and related discussions respecting the proposed provision of a municipal service that are at their preliminary stages and that, in the view of the board or committee, could reasonably be expected to harm the interests of the regional district if they were held in public.

I. ADJOURNMENT

THAT the Liquid Waste Committee adjourn its meeting of July 15, 2026.

Membership:

Chair, Malcolm Brodie, Richmond

Vice Chair, Megan Knight, White Rock

Burnaby, James Wang

Coquitlam, Steve Kim

Delta, Rod Binder

Langley City, Paul Albrecht

Langley Township, Steve Ferguson

New Westminster, Nadine Nakagawa

North Vancouver District, Mike Little

Pitt Meadows, Bob Meachen

Port Coquitlam, Brad West

Surrey, Doug Elford

Vancouver, Sarah Kirby-Yung

West Vancouver, Christine Cassidy



METRO VANCOUVER REGIONAL DISTRICT LIQUID WASTE COMMITTEE

MEETING

Wednesday, June 17, 2026

9:00 am

The meeting was held electronically on the Zoom platform

MINUTES

MEMBERS PRESENT:

Chair, Malcolm Brodie, Richmond*
Vice Chair, Megan Knight, White Rock*
Burnaby, James Wang*
Coquitlam, Steve Kim*
Delta, Rod Binder*
Langley City, Paul Albrecht*
Langley Township, Steve Ferguson*
New Westminster, Nadine Nakagawa*
North Vancouver District, Mike Little*
Pitt Meadows, Bob Meachen*
Surrey, Doug Elford*
Vancouver, Sarah Kirby-Yung*
West Vancouver, Christine Cassidy*

* denotes electronic meeting participation as authorized by the *Procedure Bylaw*

MEMBERS ABSENT:

Port Coquitlam, Brad West

STAFF PRESENT:

Jerry W. Dobrovolny, Chief Administrative Officer
Peter Navratil, General Manager, Liquid Waste Services
Christine Zhao, Legislative Services Coordinator, Board and Information Services
Cheryl Nelms, General Manager, Project Delivery
Lillian Zarembo, Program Manager Collaborative Innovation, Liquid Waste Services

A. ADOPTION OF THE AGENDA

1. June 17, 2026 Meeting Agenda

It was MOVED and SECONDED

THAT the Liquid Waste Committee adopt the agenda for its meeting scheduled for June 17, 2026 as circulated.

CARRIED

B. ADOPTION OF THE MINUTES**1. April 8, 2026 Meeting Minutes**

9:00 am Director Binder joined the meeting.

It was MOVED and SECONDED

THAT the Liquid Waste Committee adopt the minutes of its meeting held April 8, 2026 as circulated.

CARRIED

C. DELEGATIONS

No items presented.

D. INVITED PRESENTATIONS

No items presented.

E. REPORTS FROM COMMITTEE OR CHIEF ADMINISTRATIVE OFFICER**1. 2026 Major Projects Update No. 1 – Liquid Waste**

Report dated June 3, 2026 from Cheryl Nelms, General Manager, Project Delivery, providing the Liquid Waste Committee with the first of two annual updates on the major liquid waste projects being delivered by the Project Delivery Department.

Cheryl Nelms gave a presentation titled “2026 Major Projects Update No. 1 – Liquid Waste,” providing an update on major liquid waste projects, including the progress update on North Shore WWTP Program, Northwest Langley WWTP Expansion Program, and Annacis Island WWTP Outfall.

It was MOVED and SECONDED

THAT the GVS&DD Board receive for information the report dated June 3, 2026, titled “2026 Major Projects Update No. 1 – Liquid Waste.”

CARRIED

2. 2026 Update on Liquid Waste Sustainability Innovation Fund Projects

Report dated May 15, 2026 from Lillian Zaremba, Program Manager Collaborative Innovation, Liquid Waste Services, providing the Liquid Waste Committee with an update on projects funded by the Liquid Waste Sustainability Innovation Fund that are currently in progress.

Lillian Zaremba gave a presentation titled “Liquid Waste Sustainability Innovation Fund Projects - 2026 Update,” providing an overview of the Fund’s objectives, as well as the purpose and/or recent progress of hydrothermal processing, advanced resource recovery from sludge, multi-phase composite coating for sewers, biorock–innovative building material, and hydrogen system integration.

It was MOVED and SECONDED

THAT the Liquid Waste Committee receive for information the report dated May 15, 2026, titled "2026 Update on Liquid Waste Sustainability Innovation Fund Projects".

CARRIED**3. Liquid Waste Revenue Streams Annual Update**

Report dated May 20, 2026 from Dana Zheng, Program Manager, Policy Planning and Analysis, Liquid Waste Services, providing the Liquid Waste Committee with an annual overview and projected future revenues of all liquid waste related revenue generating streams, in advance of the 2027 budget preparation process.

It was MOVED and SECONDED

THAT the Liquid Waste Committee receive for information the report dated May 20, 2026, titled "Liquid Waste Revenue Streams Annual Update".

CARRIED**4. Award of RFP No. 25-146 for Consulting Engineering Services for the Northwest Langley Wastewater Treatment Plant Outfall Project**

Report dated April 15, 2026 from George Kavouras, Director, Procurement, Procurement and Real Estate Services, and Marek Ratajczak, Director, Major Projects, Project Delivery, seeking GVS&DD Board approval of awarding RFP No. 25-146 for Consulting Engineering Services for the Northwest Langley Wastewater Treatment Plant Outfall in the amount of up to \$17,019,085 (exclusive of taxes) to Delve Underground Consulting Canada ULC.

It was MOVED and SECONDED

THAT the GVS&DD Board:

- a) approve award of RFP No. 25-146 for Consulting Engineering Services for the Northwest Langley Wastewater Treatment Plant Outfall in the amount of up to \$17,019,085 (exclusive of taxes) to Delve Underground Consulting Canada ULC, subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

CARRIED**5. Award of RFP No. 25-019 for Gleneagles Forcemain Replacement Phase 2a Pump Station No. 5 Forcemain Construction**

Report dated May 14, 2026 from George Kavouras, Director, Procurement, Procurement & Real Estate Services, and Joan Liu, Division Manager, Liquid Waste Services Collection System, seeking GVS&DD Board approval of awarding RFP No. 25-019 for Gleneagles Forcemain Replacement Phase 2a Pump Station No. 5 Forcemain Construction in the amount of up to \$11,871,944.87 (exclusive of taxes) to Industra Construction Corporation.

It was MOVED and SECONDED

THAT the GVS&DD Board:

- a) approve the award of RFP No. 25-019 for Gleneagles Forcemain Replacement Phase 2a Pump Station No. 5 Forcemain Construction in the amount of up to \$11,871,944.87 (exclusive of taxes) to Industra Construction Corporation, subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

CARRIED

6. Award of RFP No. 25-561 for Supply and Delivery of 48% Aluminum Sulphate Aqueous Solution (Liquid Alum)

Report dated May 11, 2026 from Sean De Pol, Director, Wastewater Treatment & Residuals Management, Liquid Waste Services, and George Kavouras, Director, Procurement, Procurement & Real Estate Services, seeking GVS&DD Board approval of awarding RFP No. 25-561 for Supply and Delivery of 48% Aluminum Sulphate Aqueous Solution (Liquid Alum), in the amount of up to \$29,440,000 (exclusive of taxes) to Chemtrade Chemicals Canada Ltd.

It was MOVED and SECONDED

THAT the GVS&DD Board:

- a) approve the award of RFP No. 25-561 for Supply and Delivery of 48% Aluminum Sulphate Aqueous Solution (Liquid Alum), in the amount of up to \$29,440,000 (exclusive of taxes) to Chemtrade Chemicals Canada Ltd., for a term of three years with the option to extend for two additional one year terms, for a total term of five (5) years, subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

CARRIED

7. Manager's Report

Report dated May 8, 2026 from Peter Navratil, General Manager, Liquid Waste Services, providing an update on the Metro Vancouver Development Cost Charges, 2025 Annual Financial Results and Audited Financial Statements, 2026 campaign to reduce surfactants in North Shore wastewater, and the 2026 Work Plan.

It was MOVED and SECONDED

THAT the Liquid Waste Committee receive for information the report dated May 8, 2026 titled "Manager's Report".

CARRIED

F. INFORMATION ITEMS

No items presented.

G. OTHER BUSINESS

No items presented.

H. RESOLUTION TO CLOSE MEETING

No items presented.

I. ADJOURNMENT**It was MOVED and SECONDED**

THAT the Liquid Waste Committee adjourn its meeting of June 17, 2026.

CARRIED

(Time: 10:02 am)

Christine Zhao,
Legislative Services Coordinator

Malcolm Brodie,
Chair

85900296

To: Liquid Waste Committee

From: Peter Navratil, General Manager, Liquid Waste Services

Date: July 8, 2026

Meeting Date: July 15, 2026

Subject: **Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services**

RECOMMENDATION

THAT the Liquid Waste Committee receive for information the report dated July 8, 2026, titled “Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services”.

EXECUTIVE SUMMARY

The Draft Five Year Capital Plan for Liquid Waste Services has been prepared following direction received at the April 15, 2026 Board Budget Workshop to prepare the Financial Plan and proceed through the 2027 budget cycle with household impact (HHI) targets as follows: 2027 at 3.0% and 2028 to 2031 at 5.0%.

Liquid Waste Services estimates capital spending of \$7.6 billion over the five years funded by a combination of long-term debt, reserves, contributions from the operating budget, some external contributions from other agencies, as well as Development Cost Charges (DCC) specifically funding growth projects. The net change from the previous five-year plan is an overall increase of \$784.8 million.

PURPOSE

To present to the Liquid Waste Committee the Draft Liquid Waste 2027 – 2031 Capital Plan (**Attachment 1**) for input and feedback, which will then be incorporated into the Fall Budget approval process.

BACKGROUND

On April 15, 2026, Metro Vancouver held a Board Budget Workshop seeking direction for the preparation of the 2027 – 2031 Financial Plan. This report provides the Liquid Waste Committee with the information needed to provide comments on the Draft 2027 – 2031 Capital Plan which will then be incorporated into the 2027 – 2031 Financial Plan scheduled to be presented in October.

Liquid Waste Service Objectives

Projects within the Draft 2027 – 2031 Capital Plan are guided by the Liquid Waste Service Objectives specifically:

- Eliminate unauthorized discharges from the sewer system
- Ensure that authorized Wastewater Treatment Plant (WWTP) discharges meet regulatory requirements
- Improve environmental stewardship
- Minimize timeline to recover from a major event

On an ongoing basis, staff monitor and evaluate the performance of the Liquid Waste infrastructure and its ability to achieve and/or maintain the service objectives. Where risks to service objectives are identified, mitigation actions are planned and incorporated into annual work plans. These actions may take the form of changes to operating and maintenance strategies, changes to infrastructure or the

development of emergency response procedures. The projects in the Capital Plan include the infrastructure changes required to achieve the Liquid Waste Service Objectives on an ongoing basis.

CAPITAL PLAN HIGHLIGHTS

The Draft Liquid Waste 2027 – 2031 Capital Plan includes planned capital expenditures of \$1,260.2 million for 2027 and a total of \$7.6 billion over the five years, with an average expenditure of \$1,516.2 million per year (see Attachment 1). It should be noted that out of the 149 projects on the 5-year plan, the largest four projects make up 67.8% of the capital spending.

The spending over the next five years is driven by infrastructure changes required as a result of:

- Growth in the number of residents moving into the region, creating an increased demand for services (Growth);
- Changing conditions that impact the ability to meet service objectives like regulatory requirements including the federally mandated requirement for all wastewater treatment plants in Canada to meet a minimum of secondary level treatment and infrastructure required to achieve a service objective (Upgrade);
- Need for replacement or refurbishment of existing infrastructure to ensure that it continues to perform as required to meet the service objectives (Maintenance);
- Ensuring that infrastructure is resilient to major events including power outages, seismic events and the results of climate change (Resilience); and
- Opportunities to reduce the life-cycle cost of services and/or achieve Board goals such as climate change mitigation (Opportunity).

Table 1 below outlines the key capital projects planned or ongoing in 2027 – 2031 for Liquid Waste Services.

Table 1. Liquid Waste Services Capital Projects in 2027 (\$ Millions)

Infrastructure Type	Project Name	Infrastructure Driver	2027 Capital Expenditures
Wastewater Treatment	North Shore WWTP Secondary Upgrade, Conveyance and Decommissioning	Upgrade	\$761.2M
Wastewater Treatment	Iona Island Wastewater Treatment Plant	Upgrade	\$124.6M
Wastewater Treatment	Northwest Langley Wastewater Treatment Program	Growth	\$112.8M
Wastewater Treatment	AIWWTP Stage 5 Expansion	Growth	\$49.5M
Wastewater Treatment	Annacis Outfall System	Growth	\$22.7M
Collections	NSI SSO Storage	Upgrade	\$17.3M
Collections	Gleneagles Forcemain Replacement	Maintenance	\$10.4M
Collections	Stoney Creek Sanitary Trunk	Growth	\$8.7M
Other Projects			\$153M
Total 2027			\$1,260.2M

The Capital Program for Liquid Waste Services is funded by long-term debt, reserves, contributions from the operating budget, some external contributions from other agencies, as well as Development Cost Charges (DCCs) specifically funding growth projects.

Capital Plan Changes

Metro Vancouver's annual capital planning process allows the Board to adjust the capital budget once a year, in the fall, to accommodate changes required to fund projects in response to new or changing project needs, emerging issues, and changing priorities. The completion of multi-year projects is complex and subject to change due to a variety of factors including delays in construction timing caused by global events, escalation in construction costs, changes in scope and permitting processes.

Capital Plan Review Process

Liquid Waste Services and Project Delivery staff carefully reviewed the project schedules to accommodate any carryforwards and cost adjustments by deferring project phases where possible. Throughout the capital planning process, staff review each project line to ensure efficient project timing, deliverability and scope.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The Draft Liquid Waste 2027 – 2031 Capital Plan estimates capital expenditures of \$7.6 billion over the five years, funded by a combination of long-term debt, reserves, contributions from the operating budget, some external contributions from other agencies, and Development Cost Charges (DCCs) specifically funding growth projects.

The \$7.6 billion estimated capital expenditure over five years is allocated to the following asset classes:

- Collections: \$1.4B
- Treatment Plants: \$6.2B

The average estimated capital expenditures are approximately \$1,516.2 million per year and the net change from the previous five year plan is an increase of \$784.8 million. This increase is a result of the 2031 expenditures being added into the 5 year window and the current year (2026) falling off, as well as adjustments to the schedules and estimates of projects as more up to date information is available.

Table 2. Draft Five Year Capital Plan (2027 – 2031) – Liquid Waste Services

	2027	2028	2029	2030	2031	DRAFT 5 YEAR CAPITAL PLAN (2027-2031)
Total Capital Expenditures (\$M)	\$1,260.2	\$1,639.5	\$1,613.6	\$1,542.0	\$1,525.6	\$7,580.9

This report provides an opportunity for the Liquid Waste Committee to provide feedback, which will then be incorporated into the 2027 Annual Operating Budget and Five-Year Financial Plan presentations to the Committees and the GVS&DD Board at the fall Board Budget Workshop.

OTHER IMPLICATIONS

There are no other implications.

CONCLUSION

The Draft Liquid Waste 2027 – 2031 Capital Plan (**Attachment 1**) is the consolidated list of infrastructure projects required to meet and maintain the regional Liquid Waste Service Objectives and the estimated costs of these projects over the next five years.

Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services

Liquid Waste Committee Regular Meeting Date: July 15, 2026

Page 4 of 4

The Draft 2027 – 2031 Capital Plan Presentation (**Attachment 2**) provides the opportunity for the Liquid Waste Committee to provide feedback, which will then be incorporated into the Liquid Waste Capital Plan and included in the October budget presentations to the Liquid Waste Committee and the GVS&DD Board.

ATTACHMENTS

1. Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services.
2. Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services Presentation.

81110166

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)**

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
CAPITAL EXPENDITURES									
Collections									
104th Ave PS and FM for Redirection to NLWWTP	\$ 8,000,000	\$ 1,450,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 13,450,000	Design	Growth
8th Avenue Interceptor Air Treatment Facilities	1,450,000	50,000	450,000	600,000	2,600,000	3,000,000	6,700,000	Design	Upgrade
Baynes Road Pump Station Redirection	—	—	—	100,000	1,100,000	2,000,000	3,200,000	Not Started	Maintenance
Big Bend Forcemain - Gate Replacement	2,700,000	150,000	1,700,000	300,000	—	—	2,150,000	Construction	Maintenance
Burnaby Lake North Interceptor Winston Section	114,500,000	600,000	2,000,000	550,000	—	—	3,150,000	Construction	Growth
Burnaby South Slope Interceptor	300,000	—	50,000	250,000	300,000	1,350,000	1,950,000	Not Started	Growth
Cloverdale Pump Station Capacity Upgrade	11,650,000	650,000	1,100,000	1,300,000	2,100,000	5,550,000	10,700,000	Construction	Growth
Cloverdale Trunk Sewer Capacity Upgrade	4,950,000	400,000	700,000	2,000,000	1,400,000	9,000,000	13,500,000	Design	Growth
CN Thornton Railyard Expansion	500,000	500,000	—	—	—	—	500,000	Construction	Maintenance
Columbia Forcemain (CLT) Rehabilitation	16,000,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Combined Sewer Overflow Sampling Station Enhancements	4,000,000	575,000	711,000	—	—	—	1,286,000	Construction	Maintenance
Crescent Beach FM - Replacement	34,350,000	20,000	20,000	20,000	—	—	60,000	Construction	Maintenance
Eagle Creek (Lower Section) Channel Restoration	750,000	50,000	700,000	—	—	—	750,000	Construction	Resilience
EMQC-Chemistry Laboratory	17,200,000	450,000	6,150,000	8,250,000	1,150,000	—	16,000,000	Construction	Upgrade
Flood Protection for Langley Pump Station	—	—	350,000	250,000	4,440,000	—	5,040,000	Not Started	Maintenance
Fraser Sewerage Area Integrated Resource Recovery (IRR) Study	700,000	150,000	100,000	—	—	—	250,000	Design	Opportunity
FSA Flow Metering Program	4,300,000	290,035	625,000	—	—	—	915,035	Construction	Maintenance
FSA River Crossing Scour Protection Program - Phase 1	4,450,000	480,000	1,400,000	500,000	—	—	2,380,000	Construction	Maintenance
FSA Sewer Relocations and Protections	3,100,000	1,000,000	350,000	400,000	450,000	—	2,200,000	Construction	Maintenance
FSA Statutory Right of Way Acquisitions Phase 1	25,450,000	1,400,000	—	—	—	—	1,400,000	Design	Maintenance
Gilbert/Brighthouse Trunk Pressure Sewer	209,750,000	3,920,000	7,450,000	250,000	7,050,000	5,000,000	23,670,000	Multiple	Maintenance
Glenbrook Combined Trunk Kingsway Sanitary Section	9,250,000	995,000	948,000	—	—	—	1,943,000	Construction	Growth
Glenbrook Combined Trunk Sewer Separation	4,700,000	1,450,000	2,450,000	2,450,000	3,450,000	3,500,000	13,300,000	Design	Upgrade
Glenbrook CSO Gate Replacement	7,100,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Gleneagles Forcemain Replacement	27,600,000	10,350,000	1,938,000	2,000,000	—	—	14,288,000	Construction	Maintenance
Gleneagles Pump Stations Improvements	29,800,000	770,000	1,420,000	3,550,000	13,510,000	10,456,000	29,706,000	Design	Maintenance
Goulet and Noble Sediment Basin Improvements	5,000,000	2,500,000	2,500,000	—	—	—	5,000,000	Construction	Maintenance
Harbour PS Air Treatment Facilities	—	—	150,000	350,000	300,000	1,750,000	2,550,000	Not Started	Upgrade

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)**

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
Harbour Pump Station Discharge Header Repair and Valve Replacements	5,350,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Harbour Pump Station Power Distribution Equipment Replacement	5,350,000	1,389,169	321,035	—	—	—	1,710,204	Construction	Maintenance
Harbour Sewerage Pump Station - Suction Piping Replacement	5,850,000	2,168,916	2,013,916	—	1,148,349	—	5,331,181	Construction	Maintenance
Highbury Interceptor Diversion Junction Chamber Wall Rehabilitation	7,400,000	480,000	4,632,000	1,550,000	—	—	6,662,000	Construction	Maintenance
Highbury Street Sanitary Trunk Sewer Rehabilitation	—	—	300,000	2,000,000	—	—	2,300,000	Not Started	Maintenance
Hollyburn Interceptor - Kew Road Section	—	—	50,000	250,000	1,700,000	2,050,000	4,050,000	Not Started	Maintenance
Hudson Forcemain Rehabilitation Phase 2/3	3,150,000	600,000	1,980,000	1,000,000	—	—	3,580,000	Construction	Maintenance
Jervis Pump Station 25kV Voltage Conversion	1,300,000	700,000	—	—	—	—	700,000	Construction	Maintenance
Jervis Sewerage Pump Station - Suction Piping Replacement	6,050,000	2,314,135	2,159,135	—	1,235,481	—	5,708,751	Construction	Maintenance
Kent Pump Station High Voltage Switchgear Replacement	4,200,000	1,328,720	—	—	—	—	1,328,720	Construction	Maintenance
Lozells Sewer Protection Works	600,000	600,000	—	—	—	—	600,000	Construction	Maintenance
LWS Pump Station Programmable Logic Controller Replacements	1,400,000	400,000	465,000	695,000	1,165,000	—	2,725,000	Multiple	Opportunity
Marshend Pump Station	40,750,000	6,150,000	17,650,000	7,250,000	4,000,000	—	35,050,000	Construction	Growth
New West Interceptor - Annacis Section 2	51,050,000	2,329,713	14,381,957	4,190,978	4,600,000	5,000,000	30,502,648	Construction	Maintenance
New Westminster Interceptor Repair Columbia St. Section	41,450,000	3,825,796	3,500,000	—	—	—	7,325,796	Construction	Maintenance
New Westminster Interceptor West Branch and Columbia Extension Rehabilitation	121,700,000	1,284,810	23,775,300	47,200,600	23,363,000	21,640,000	117,263,710	Construction	Maintenance
North Road Trunk Sewer	28,600,000	4,946,000	2,414,500	1,000,000	500,000	—	8,860,500	Construction	Growth
North Surrey Interceptor - Port Mann Section - Odour Control	27,600,000	550,000	2,300,000	4,000,000	4,000,000	500,000	11,350,000	Construction	Upgrade
North Surrey Interceptor Improvements	149,950,000	2,680,218	17,160,000	22,349,998	43,400,000	46,500,000	132,090,216	Multiple	Maintenance
North Surrey Interceptor Twinning	—	—	—	—	500,000	1,000,000	1,500,000	Not Started	Growth
NSA Flow Metering Program	3,100,000	423,164	—	—	—	—	423,164	Construction	Maintenance
NSA Scour Protection Upgrades	7,750,000	1,000,000	1,000,000	30,000	30,000	30,000	2,090,000	Construction	Maintenance
NSI SSO Storage	196,950,000	17,289,528	32,424,464	51,310,000	51,929,507	20,200,000	173,153,499	Construction	Upgrade
NSSA Sewer Relocations and Protections	450,000	75,000	—	—	—	—	75,000	Construction	Maintenance
NVI Lynn Branch Siphon – SSO Treatment	1,100,000	—	749,999	2,700,000	2,850,000	5,400,000	11,699,999	Design	Upgrade
NWP Dip Investigation and Repair	4,500,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Ocean Park Trunk - Crescent Beach PS Section Replacement	1,150,000	50,000	750,000	1,050,000	1,550,000	8,440,000	11,840,000	Design	Maintenance
Ocean Park Trunk Manholes Lining	1,100,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Port Coquitlam Pump Station Overflow	250,000	210,000	1,000,000	3,000,000	—	—	4,210,000	Design	Resilience
Port Coquitlam Pump Station Refurbishment	13,850,000	2,150,000	2,150,000	2,150,000	14,976,667	65,560,000	86,986,667	Design	Maintenance
Port Moody Forcemain Replacement	1,500,000	50,000	1,950,000	3,500,000	1,500,000	11,500,000	18,500,000	Design	Maintenance
Port Moody Pump Station Capacity Upgrade	2,250,000	600,000	880,000	300,000	1,150,000	10,000,000	12,930,000	Design	Growth

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
Port Moody South Interceptor Capacity Upgrade	—	—	150,000	150,000	2,050,000	1,000,000	3,350,000	Not Started	Growth
Port Moody Storm Drain Rehabilitation	2,850,000	450,000	—	—	—	—	450,000	Construction	Maintenance
Production Way Operation Centre	54,150,000	2,411,001	8,614,000	15,279,999	25,165,000	1,080,000	52,550,000	Multiple	Upgrade
Rosemary Heights Pressure Sewer Capacity Upgrade	—	—	350,000	500,000	700,000	2,500,000	4,050,000	Not Started	Growth
Royal Ave PS Rehabilitation	15,250,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Sapperton Pump Station	105,100,000	550,000	2,198,000	5,250,000	4,550,000	—	12,548,000	Construction	Growth
Sapperton Pump Station Emergency Backup Power	5,000,000	1,250,000	1,650,000	500,000	400,000	—	3,800,000	Construction	Resilience
Sewer Heat Projects	71,500,000	250,000	10,150,000	19,400,000	25,475,000	16,075,000	71,350,000	Construction	Opportunity
South Surrey Interceptor & North Surrey Interceptor - Fraser River Crossing	8,500,000	1,350,000	5,450,000	5,050,000	10,450,000	66,000,000	88,300,000	Design	Growth
South Surrey Interceptor Johnston Section	98,300,000	515,000	—	—	—	—	515,000	Construction	Growth
South Surrey Interceptor Rehabilitation	6,800,000	1,405,108	23,736,217	23,681,057	15,626,597	10,330,000	74,778,979	Multiple	Maintenance
Spanish Banks PS HV Switchgear Replacement	850,000	460,000	1,750,000	2,500,000	—	—	4,710,000	Design	Maintenance
SSI Delta - Air Management Facility Construction	17,950,000	427,512	—	—	—	—	427,512	Construction	Upgrade
SSI Influent Control Chamber Repair and Replace Gates	1,300,000	510,000	400,000	—	—	—	910,000	Construction	Maintenance
Still Creek Culvert Rehabilitation - Gilmore section	2,150,000	338,001	1,468,999	—	—	—	1,807,000	Construction	Maintenance
Stoney Creek Sanitary Trunk	156,900,000	8,721,715	57,068,404	45,950,318	17,288,213	14,418,375	143,447,025	Construction	Growth
Surrey Corrosion Control Facility Replacement	11,250,000	851,219	5,160,510	3,000,000	—	—	9,011,729	Construction	Maintenance
VSA Emergency Backup Power	29,300,000	1,000,000	—	—	—	—	1,000,000	Construction	Resilience
VSA Flow Metering Program	8,700,000	1,350,000	1,600,000	1,100,000	1,200,000	700,000	5,950,000	Construction	Maintenance
VSA Grit Chamber Access Improvements	3,550,000	2,573,063	732,000	—	—	—	3,305,063	Construction	Maintenance
VSA Sewer Relocations and Protections	24,050,000	100,001	—	49,999	400,000	2,000,000	2,550,000	Construction	Maintenance
VSA Statutory Right of Way Acquisitions Phase 1	7,500,000	2,600,000	—	—	—	—	2,600,000	Construction	Maintenance
Westridge FM Replacement	13,900,000	1,441,550	1,775,000	—	—	—	3,216,550	Construction	Maintenance
Westridge Pump Stations 1 & 2 Refurbishment	44,250,000	7,030,000	8,410,000	8,050,000	8,510,000	—	32,000,000	Construction	Maintenance
White Rock Forcemain Rehabilitation	14,850,000	1,285,702	5,485,702	5,714,089	1,039,585	—	13,525,078	Construction	Maintenance
White Rock Pump Station Upgrades	2,000,000	500,000	1,350,000	800,000	1,200,000	950,000	4,800,000	Design	Growth
Total Collections	\$ 1,989,200,000	\$ 119,465,076	\$ 307,768,138	\$ 318,622,038	\$ 314,502,399	\$ 357,479,375	\$ 1,417,837,026		
Treatment Plants									
AIWWTP Ammonia Removal – Sidestream	\$ 22,800,000	\$ 1,200,000	\$ 1,500,000	\$ 3,440,000	\$ 5,150,000	\$ 3,530,000	\$ 14,820,000	Design	Upgrade
AIWWTP Bar Screen #1 Refurbishment	2,550,000	988,500	—	—	—	—	988,500	Construction	Maintenance
AIWWTP Centrifuge Schwing HPU Replacement	1,350,000	100,000	—	—	—	—	100,000	Construction	Maintenance
AIWWTP Cogeneration Backup Power	81,100,000	125,000	—	—	—	—	125,000	Construction	Resilience
AIWWTP DAF Polymer System Upgrade	1,550,000	100,000	590,000	3,480,000	1,670,000	2,160,000	8,000,000	Design	Maintenance

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)**

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
AIWWTP Digesters No. 9 and 10 (formerly Digester No. 5)*	6,900,000	3,000,000	14,000,000	40,400,000	59,300,000	106,000,000	222,700,000	Design	Growth
AIWWTP Electrical Distribution System Protection Control and Monitoring	2,650,000	75,000	250,000	—	—	—	325,000	Construction	Upgrade
AIWWTP Hydrothermal Processing Pilot	44,000,000	5,909,000	498,000	600,000	—	—	7,007,000	Construction	Opportunity
AIWWTP ICS Replacement Program	14,350,000	4,000,000	2,750,000	2,500,000	1,050,000	—	10,300,000	Construction	Maintenance
AIWWTP ICS Replacement Program Phase 2	—	—	—	575,000	2,000,000	2,600,000	5,175,000	Not Started	Maintenance
AIWWTP Influent System Remediation	129,750,000	1,487,501	19,701,249	21,100,000	2,900,000	7,850,000	53,038,750	Construction	Maintenance
AIWWTP IPS Pump Building Roof Replacement Phase 2	1,150,000	50,000	—	—	—	—	50,000	Construction	Maintenance
AIWWTP Lubrication Storage Facility Conversion	2,500,000	190,000	1,800,000	400,000	—	—	2,390,000	Construction	Maintenance
AIWWTP O&M Building Refurbishment	9,600,000	600,000	3,450,000	2,150,000	1,700,000	1,700,000	9,600,000	Construction	Maintenance
AIWWTP Outfall Repair	1,000,000	50,000	500,000	500,000	4,800,000	4,850,000	10,700,000	Design	Maintenance
AIWWTP Process Waste Drain Line Refurbishment	3,150,000	200,000	—	—	—	—	200,000	Construction	Maintenance
AIWWTP Scum Pump Replacement	1,250,000	500,000	500,000	—	—	—	1,000,000	Construction	Maintenance
AIWWTP Secondary Clarifier Corrosion Repair	36,300,000	450,000	400,000	—	—	—	850,000	Construction	Maintenance
AIWWTP Sludge Control Building Electrical Room HVAC Upgrade	2,100,000	1,005,000	—	—	—	—	1,005,000	Construction	Maintenance
AIWWTP Stage 5 Expansion*	1,340,400,000	49,500,000	102,750,000	86,800,000	63,200,000	94,600,000	396,850,000	Multiple	Growth
AIWWTP Stage 5 Expansion - Optimization Works*	18,600,000	4,500,000	5,000,000	3,500,000	3,850,000	—	16,850,000	Construction	Growth
AIWWTP TF Pump 5 VFD Upgrade	1,900,000	250,000	400,000	850,000	250,000	100,000	1,850,000	Construction	Resilience
AIWWTP Trickling Filter Media & Distributor Arms & Ducting Replacement	90,700,000	50,000	—	—	—	—	50,000	Construction	Maintenance
AIWWTP UPS Condition Monitoring System	550,000	50,000	100,000	100,000	150,000	150,000	550,000	Construction	Resilience
Annacis Influent System Surge Control Refurbishment	22,000,000	2,000,000	1,900,000	—	—	—	3,900,000	Construction	Growth
Annacis Outfall System*	356,050,000	22,697,721	—	—	—	—	22,697,721	Construction	Growth
AREC Commodities Line Improvements Project	7,000,000	1,650,000	2,850,000	1,450,000	850,000	—	6,800,000	Construction	Maintenance
IIWWTP Biosolids Dewatering Facility	66,300,000	409,000	200,000	120,000	—	—	729,000	Construction	Upgrade
IIWWTP ICS IPS Control Replacement	1,750,000	300,000	300,000	—	—	—	600,000	Construction	Maintenance
IIWWTP ICS Migration Program	4,000,000	150,000	1,000,000	2,750,000	2,750,000	2,750,000	9,400,000	Design	Maintenance
IIWWTP ICS Replacement Program	750,000	50,000	—	—	—	—	50,000	Construction	Maintenance
IIWWTP IPS Drive Remediation	3,300,000	570,000	450,000	410,000	745,000	—	2,175,000	Construction	Maintenance
IIWWTP Medium Pressure Sludge Gas Blowers 3 & 4 Power Supply	950,000	215,000	145,000	170,000	—	—	530,000	Construction	Resilience
IIWWTP Outfall Refurbishment*	16,300,000	3,350,000	42,000,000	53,000,000	87,000,000	41,000,000	226,350,000	Design	Maintenance
IIWWTP PA Tanks Improvement	7,500,000	500,001	49,999	1,625,000	1,625,000	1,625,000	5,425,000	Construction	Maintenance
IIWWTP PA-Sed Tank & Gallery Wall Refurbishment	950,000	50,000	—	—	—	—	50,000	Construction	Maintenance
IIWWTP Replacement of CoGen Control System	2,500,000	100,000	—	—	—	—	100,000	Construction	Maintenance

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)**

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
IIWWTP Solids Handling Refurbishment	63,850,000	2,900,000	—	—	—	—	2,900,000	Construction	Maintenance
IIWWTP Surge Mitigation	2,000,000	450,000	650,000	650,000	250,000	—	2,000,000	Construction	Maintenance
IIWWTP Waste Gas Burner Redundancy	1,250,000	400,000	—	—	—	—	400,000	Construction	Maintenance
Iona Island Wastewater Treatment Plant*	1,060,150,000	124,619,116	175,574,217	245,915,000	430,254,692	480,005,613	1,456,368,638	Construction	Upgrade
LIWWTP Effluent Heat Recovery Project	11,650,000	4,023,000	1,250,000	—	—	—	5,273,000	Construction	Opportunity
LIWWTP Gravity Thickener Odour Control System	—	—	—	—	150,000	300,000	450,000	Not Started	Upgrade
LIWWTP Gravity Thickener Redundancy	67,000,000	1,043,524	5,100,000	20,000,000	21,000,000	18,000,000	65,143,524	Construction	Maintenance
LIWWTP Ground Fault Detection System Replacement	2,050,000	665,000	250,000	100,000	—	—	1,015,000	Construction	Maintenance
LIWWTP High Efficiency Boiler	1,300,000	410,000	330,000	—	—	—	740,000	Construction	Maintenance
LIWWTP ICS Electrical Distribution System Migration Program	2,250,000	600,000	2,000,000	2,250,000	1,400,000	—	6,250,000	Design	Maintenance
LIWWTP ICS Replacement Program	6,750,000	1,150,000	—	—	—	—	1,150,000	Construction	Maintenance
LIWWTP New Influent Conduit and Headworks	1,250,000	125,000	500,000	3,755,000	3,155,000	4,700,000	12,235,000	Design	Resilience
LIWWTP PA Tank Odour Control System	4,750,000	1,600,000	1,800,000	1,150,000	—	—	4,550,000	Construction	Upgrade
LIWWTP PA-Sed Tank Refurbishment	3,200,000	710,000	610,000	110,000	—	—	1,430,000	Construction	Maintenance
LIWWTP Pilot Digestion Optimization Facility	7,200,000	1,103,000	620,000	—	—	—	1,723,000	Construction	Opportunity
LIWWTP Power Distribution Center Replacements	750,000	300,000	335,000	2,000,000	2,000,000	1,500,000	6,135,000	Design	Maintenance
LIWWTP Power Reliability	16,000,000	4,900,000	2,956,526	1,464,461	—	—	9,320,987	Construction	Resilience
LIWWTP SCL Refurbishment	41,500,000	982,968	9,649,999	9,650,000	19,300,000	—	39,582,967	Construction	Maintenance
LIWWTP Trickling Filter Refurbishment	68,550,000	8,550,000	8,550,000	10,450,000	100,000	—	27,650,000	Construction	Maintenance
NLWWTP Alum Dosing System Relocation and Upgrades	1,900,000	1,400,000	370,000	100,000	—	—	1,870,000	Construction	Resilience
NLWWTP Hydraulic Improvements	5,000,000	950,000	2,750,000	1,100,000	200,000	—	5,000,000	Construction	Resilience
NLWWTP Standby Diesel Generator	950,000	150,000	50,000	—	—	—	200,000	Construction	Resilience
North Shore WWTP Secondary Upgrade, Conveyance and Decommissioning*	3,854,950,000	761,232,233	673,022,809	520,120,013	206,372,304	66,596,037	2,227,343,396	Construction	Upgrade
Northwest Langley Wastewater Treatment Program*	2,280,950,000	112,818,231	237,230,999	237,193,000	233,840,538	237,193,000	1,058,275,768	Multiple	Growth
Regional Biosolids Dryer – AIWWTP*	51,250,000	3,000,000	4,600,000	12,200,000	69,200,000	90,000,000	179,000,000	Design	Opportunity
WWTPs Electrical System Studies & Upgrades	3,300,000	200,000	500,000	850,000	1,275,000	900,000	3,725,000	Construction	Resilience
Total Treatment Plants	\$ 9,865,300,000	\$ 1,140,703,795	\$ 1,331,783,798	\$ 1,294,977,474	\$ 1,227,487,534	\$ 1,168,109,650	\$ 6,163,062,251		
TOTAL CAPITAL EXPENDITURES	\$11,854,500,000	\$ 1,260,168,871	\$ 1,639,551,936	\$ 1,613,599,512	\$ 1,541,989,933	\$ 1,525,589,025	\$ 7,580,899,277		

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)**

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
SUMMARY BY DRIVER									
Growth	\$ 4,615,950,000	\$ 221,943,667	\$ 456,189,903	\$ 441,243,318	\$ 409,378,751	\$ 552,561,375	\$ 2,081,317,014		
Maintenance	1,569,950,000	100,751,814	248,922,018	271,886,721	297,969,679	275,241,000	1,194,771,232		
Resilience	148,200,000	10,875,000	11,121,526	11,889,461	5,430,000	5,850,000	45,165,987		
Upgrade	5,332,700,000	911,763,390	905,635,489	855,685,012	733,371,503	585,861,650	3,992,317,044		
Opportunity	187,700,000	14,835,000	17,683,000	32,895,000	95,840,000	106,075,000	267,328,000		
Total	\$11,854,500,000	\$ 1,260,168,871	\$ 1,639,551,936	\$ 1,613,599,512	\$ 1,541,989,933	\$ 1,525,589,025	\$ 7,580,899,277		

**Draft Capital Budget refers to the estimated project costs to active phase.

* Project is part of Metro Vancouver's formal stage gate framework. Detailed project report will be brought forward as part of the stage gate review process.



Annacis Island Wastewater Treatment Plant

Draft Five Year Capital Plan (2027 – 2031)

LIQUID WASTE SERVICES

Peter Navratil, P.Eng, MPA
General Manager, Liquid Waste Services

Liquid Waste Committee - July 15, 2026
76898764

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AGENDA

- Financial Plan Process Overview
- Service Objectives
- Capital Plan Drivers
- Liquid Waste Services Projects Overview

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2027 – 2031 FINANCIAL PLAN & ANNUAL BUDGET TIMELINE



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SERVICE OBJECTIVES

Liquid Waste Services

1. Eliminate discharges from the sewer system
2. Ensure that authorized wastewater treatment plant discharges meet regulatory requirements
3. Improve environmental stewardship
 - nutrient recovery, energy use, greenhouse gas and odour emissions
4. Minimize timeline to recover from a major event
 - seismic, power interruption, and climate change

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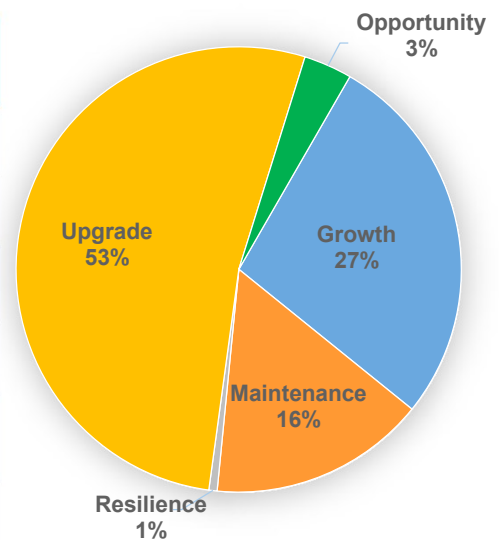
METRO VANCOUVER CAPITAL PROGRAM

- Over 300 projects (Liquid Waste: 149)
- Capital expenditures for five years
- Provides active phase; primary driver
- Total project budgets

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CAPITAL PLAN DRIVERS

Driver	Outcome	Draft 2027 – 2031 Capital Plan (\$M)
Upgrade	Enhance levels of service	\$3,992.3
Growth	Accommodate population and economic growth	\$2,081.3
Maintenance	Maintain assets in a state of good repair	\$1,194.8
Opportunity	Reduce life-cycle costs and/or achieve Board goals	\$267.3
Resilience	Minimize impacts resulting from seismic events and climate change	\$45.2
Total		\$7,580.9



LIQUID WASTE SERVICES

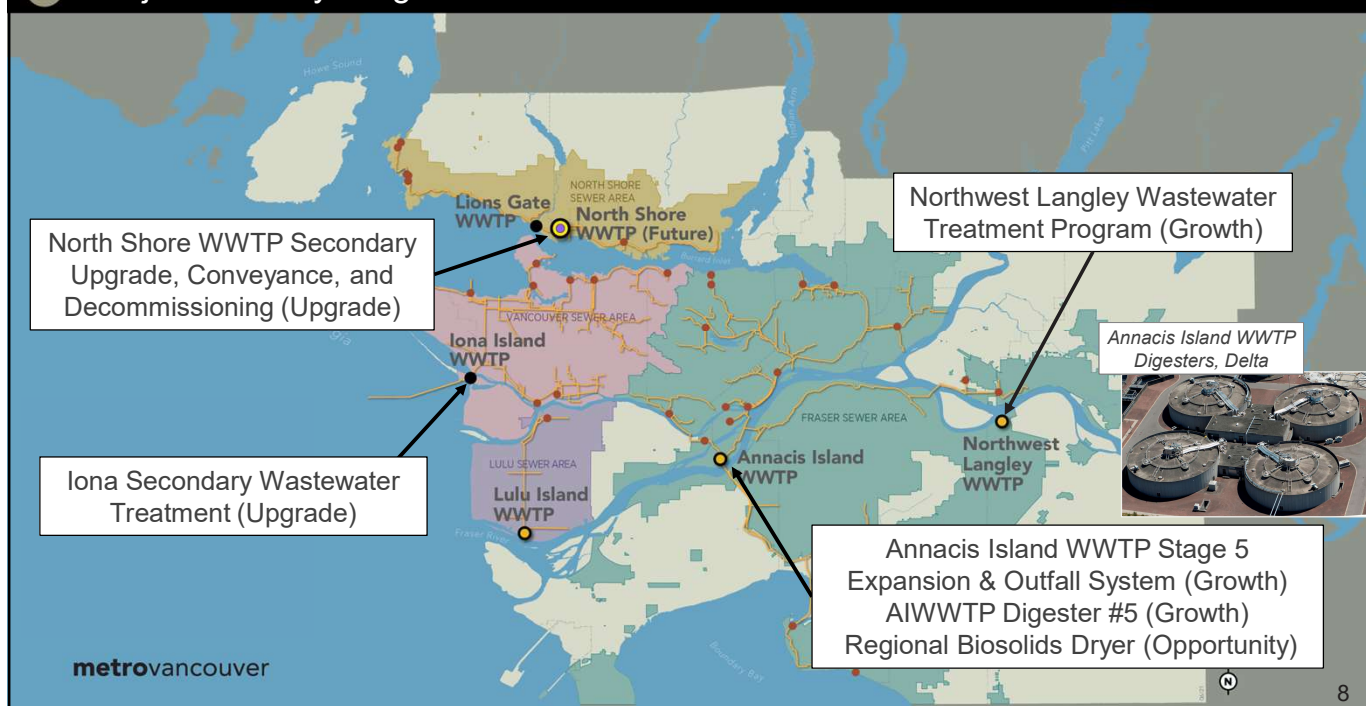
Driver	Draft 2027 – 2031 Capital Plan (\$M)	Key Projects (149 Projects in the Capital Plan)
Upgrade	\$3,992.3	- North Shore Wastewater Treatment Plant - Iona Island Wastewater Treatment Plant
Growth	\$2,081.3	- Northwest Langley Wastewater Treatment Program - AIWWTP Stage 5 Expansion
Maintenance	\$1,194.8	- IIWWTP Outfall Refurbishment - North Surrey Interceptor Improvements
Opportunity	\$267.3	- Regional Biosolids Dryer - AIWWTP - Sewer Heat Projects
Resilience	\$45.2	- LIWWTP New Influent Conduit and Headworks - LIWWTP Power Reliability
Total	\$7,580.9	

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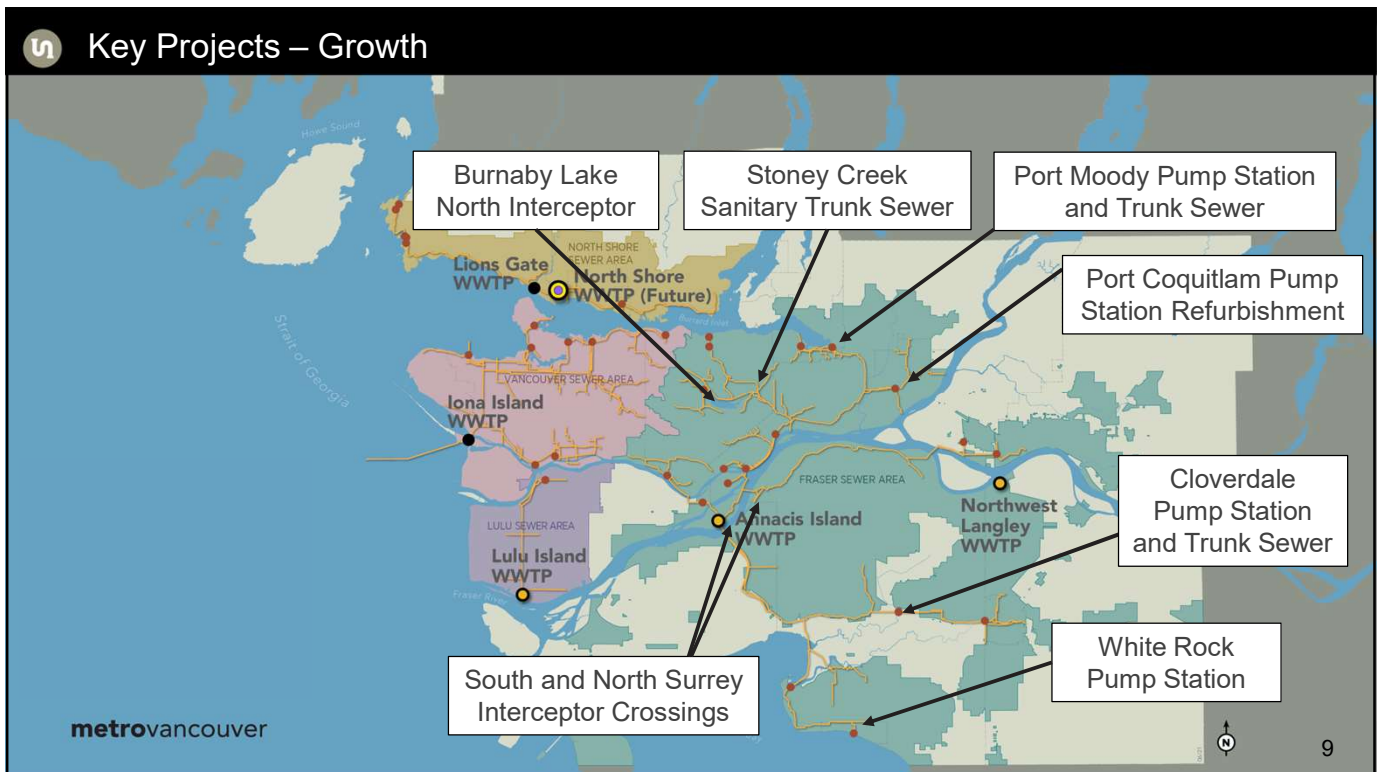
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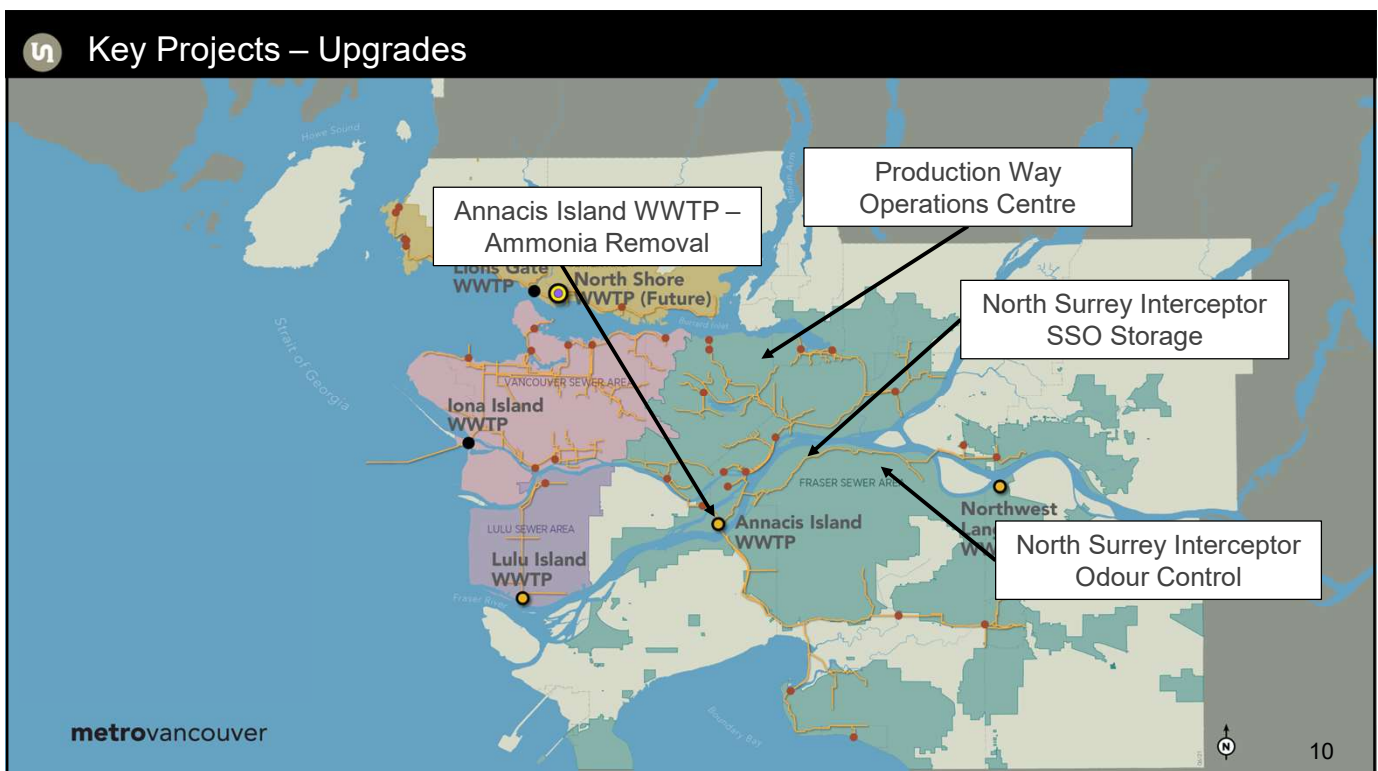
Project Delivery Program



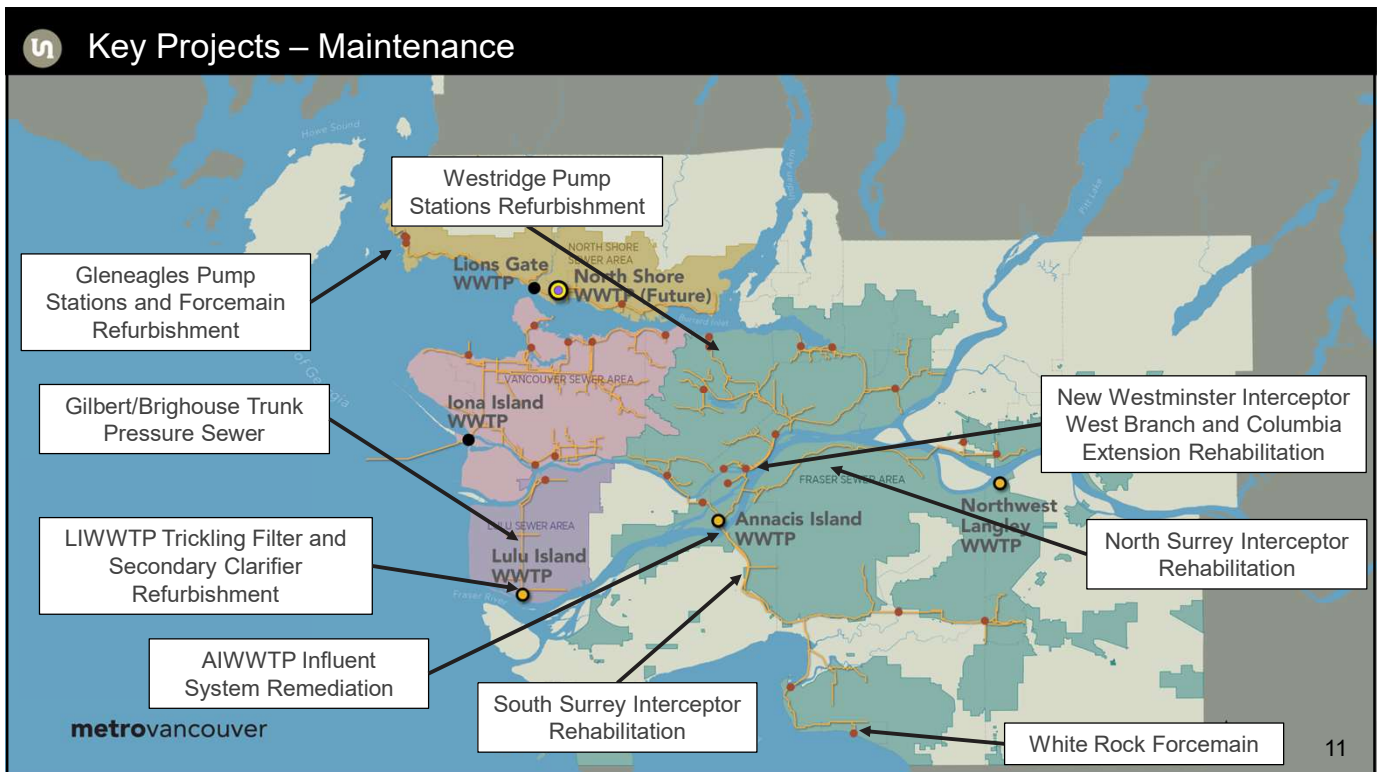
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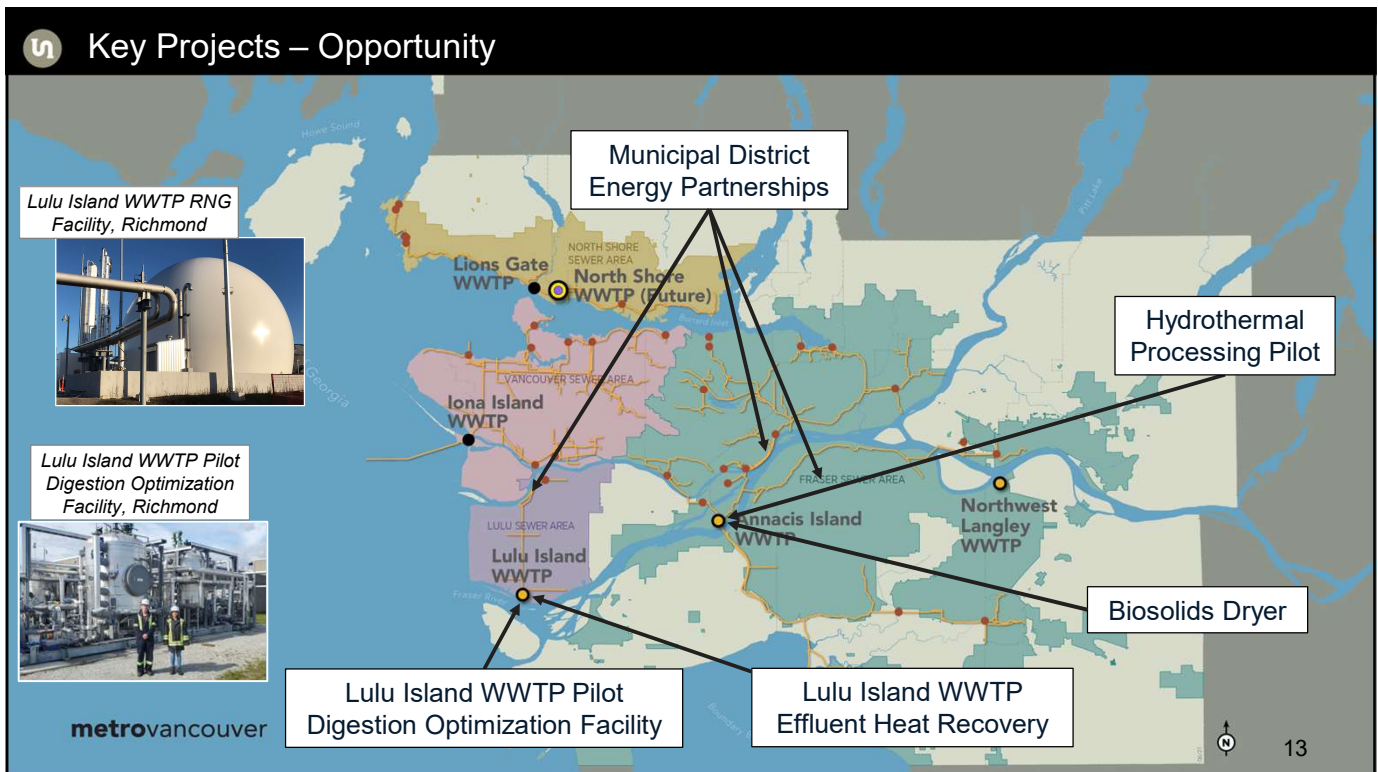
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LIQUID WASTE SERVICES

Draft 5 Year (2027 – 2031) Capital Plan Expenditures

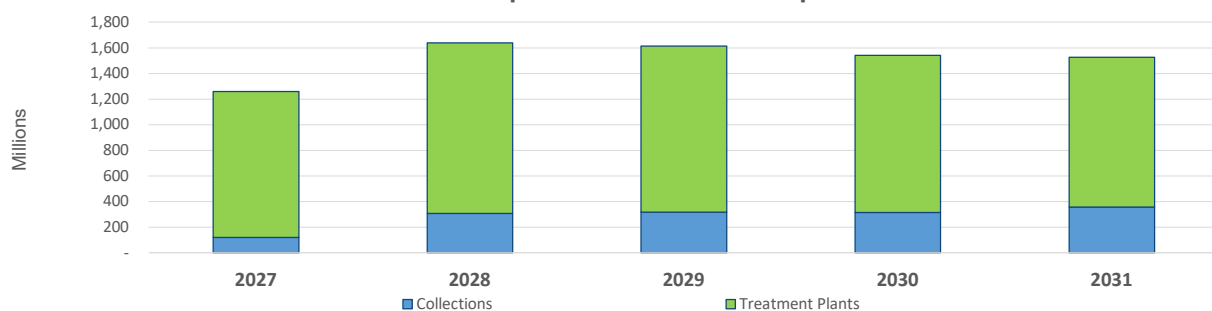
Overview:

- 2027 - 2031 Capital Plan: \$7.6B
- 2027 Estimated Capital Expenditures: \$1,260.2M
- 149 projects

Drivers:

- Secondary Treatment Upgrade (NSWWTP / IWWTP)
- FSA WWTP Expansions (AIWWTP / NLWWTP)
- Maintenance

2027 - 2031 Liquid Waste Services Capital Plan



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2027 CAPITAL EXPENDITURES

Eight projects make up 88% of the proposed 2027 capital expenditures for all 149 projects

- North Shore WWTP Secondary Upgrade
- Iona Island WWTP Secondary Upgrade
- Northwest Langley WWTP Expansion
- Annacis Island WWTP Stage 5 Expansion
- Annacis Outfall System
- NSI SSO Storage
- Gleneagles Forcemain Replacement
- Stoney Creek Sanitary Trunk

NEXT STEPS

- Consider Committee comments on the Draft 2027-2031 Capital Plan
- Present revised 2027-2031 Capital Plan and 2027 Operating and Capital Budgets for Committee and Board consideration in October



Sapperton Pump Station



To: Liquid Waste Committee

From: Colin Meldrum, Director, Engineering, Design, and Construction, Liquid Waste Services
 Jennifer Crosby, Director, Project Delivery

Date: June 26, 2026

Meeting Date: July 15, 2026

Subject: **2026 Liquid Waste Services Capital Program Update No. 2**

RECOMMENDATION

THAT the GVS&DD Board receive for information the report dated June 26, 2026, titled “2026 Liquid Waste Services Capital Program Update No. 2”.

EXECUTIVE SUMMARY

This report provides a status update of the GVS&DD Capital Program with summaries for larger projects (i.e. cost of >\$100M), highlighting progress, schedule, budget, and upcoming milestones, and an overall summary of remaining projects. As part of the GVS&DD capital planning process, the timing of each project is reviewed and updated annually based on available resources, strategic prioritization, risk to system operations and financial sustainability. These updates are provided three times a year for the Liquid Waste Committee and GVS&DD Board in February, July, and November to provide timely line of sight for the April Board Budget Workshop, input into the annual budget and Five-Year Financial Plan for October, and an end of year update. Individual project reports will continue to be provided as needed, particularly at key decision-making milestones.

PURPOSE

This report provides the Liquid Waste Committee and GVS&DD Board with the second of three annual updates on the Liquid Waste Services’ Capital Program.

BACKGROUND

Each year, the GVS&DD Board adopts a budget for the upcoming year and endorses a five-year financial plan. Regular updates on the Capital Program provide the Committee and Board with information to support good governance of the organization, decision making, project management, and financial oversight. This report provides the second of three Capital Program updates to the Committee and Board. Two additional Major Project updates are provided to the Committee throughout the year, and three Financial Performance Updates are also provided to the Board through the Performance and Audit Committee.

Table 1: Capital Program Reporting

	J	F	M	A	M	J	J	A	S	O	N	D
Capital Program Update		✓					✓				✓	
Additional Major Utility Project Updates					✓				✓			
Financial Performance Report				✓			✓				✓	

MAJOR PROJECTS STATUS UPDATE

Updates on the Liquid Waste Services Capital Program as of June 2026. Progress, schedule, and budget status for the active phase of the project are shown using a consistent scale (**Attachment 1**). Updates are provided for projects over \$100M. A summary of all other capital projects is also provided, and a financial update on all the projects in the capital program is included (**Attachment 2**).

104th Avenue Pump Station and Forcemain for Redirection to Northwest Langley Wastewater Treatment Plant

As part of the Northwest Langley Wastewater Treatment Plant (NLWWTP) Expansion Program strategy, a portion of flows from North Surrey will be redirected from Annacis Island Wastewater Treatment Plant (AIWWTP) to the new NLWWTP. The option analysis concluded that a flow diversion option via a new pump station and a 6-kilometre twin forcemain from the Fraser Heights area of Surrey to the treatment plant were necessary.

The project is currently on hold pending resourcing, and further advancement of the NLWWTP and North Surrey Interceptor (NSI) Projects. The project has significant unknowns to address before a detailed schedule and budget can be confirmed, including the location of the pump station, the capacity requirements, and the exact forcemain alignment.

104th Avenue Pump Station and Forcemain for Redirection to NLWWTP		Status
Progress	Project Definition (1% complete)	
Schedule	On hold – pending advancement of NLWWTP and NSI Projects	
Budget	On budget – an indicative estimate has been identified, and will be revised as work progresses	
Next Milestone	Prepare project charter and identify preferred location and alignment	

Annacis Island Wastewater Treatment Plant Ammonia Removal – Side Stream

Ammonia is present in wastewater, and in higher concentrations can be harmful to aquatic life. It is projected to be an issue at AIWWTP. The proposed approach to addressing the ammonia issue is to use focused (or side stream) treatment for the high strength centrate, which is the liquid generated from the sludge centrifuges. There is an opportunity to recover the ammonia and convert it into hydrogen fuel — which could either be used on site as a fuel source or sold commercially. This approach is projected to be the lowest cost option for addressing the ammonia issue, although it has not been done beyond bench scale testing. The project is currently in the definition phase, which will involve piloting the proposed technology. Upon completion of the piloting activities, a decision will be made as to whether the resource recovery approach will be taken or if a traditional ammonia treatment system will be implemented. As this is the first application of its kind, the level of accuracy in the estimates is not known. They will be refined as the work progresses. The tentative timeline for construction is 2033 to 2038.

AIWWTP Ammonia Removal – Side Stream		Status
Progress	Project Definition (5% complete)	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Award engineering services for pilot scale preliminary design Determine commercial viability of technology	

Annacis Island Wastewater Treatment Plant Expansion Program (Stage 5, Digester, Outfall, Biosolids Dryer) – Project Delivery

The AIWWTP Expansion Program is being built to accommodate projected population growth in the region, reduce nuisance odours, and improve seismic and climate change related resiliency. Several key wastewater treatment plant process buildings have been completed and commissioned under the Stage 5 Expansion Program. This has resulted in operational benefits to the plant. Detailed design is underway for the remaining program components. Stage gate approvals for the remaining components are scheduled for 2027 through to 2030 to allow the design and construction phases to proceed. Ground improvement construction is estimated to commence in late 2026, and all program components are anticipated to be completed by 2035. The outfall is now in service; however, some remaining on-land civil works will be completed in fall 2026. Additional information and project updates are available on the project webpage (Reference 1).

AIWWTP Program (Stage 5, Digester, Outfall, Dryer)		Status
Progress	Preliminary Design (Digester, Biosolids Dryer, 1%) and Detailed Design (Stage 5 Expansion Remaining Works, 60%)	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Stage Gate 1 – Approval to proceed with Design Phase (Biosolids Dryer) Stage Gate 3 – Approval to proceed with Construction Phase (Stage 5 Expansion Remaining Works)	

Annacis Island Wastewater Treatment Plant Influent System Remediation

The AIWWTP Influent Conduit is experiencing degradation due to hydrogen sulfide induced corrosion. This project is intended to remediate the conduit, the influent junction chamber and the emergency overflow chamber. The work is in the early stages of preliminary engineering. The work will likely require a full pumped bypass of the flow into the AIWWTP. Key issues to address in preliminary design include how to integrate the influent conduit with both the new and the old outfalls for emergency bypass purposes, the method of rehabilitation to be performed, and whether a new conduit should be built beside the existing conduit to provide additional future capacity and make the proposed rehabilitation easier. These issues form the key risks with this project. The tentative timeline is for construction to occur in distinct phases from 2028 to 2038.

AIWWTP Influent System Remediation		Status
Progress	Preliminary Design (5% complete)	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Complete preliminary design	

Burnaby Lake North Interceptor Winston Section (Winston Street Sewer Project)

The Winston Street Sewer is a 2.9 km-long sewer in Burnaby built using tunnelling methods. The main construction contract is substantially complete. Remaining work includes redirection of the Sperling Forcemain to the new sewer (currently under design), which will be tendered once design is complete and various permits are in place. Key risks include costs for the Sperling Forcemain connection including works under the railway line and contractor claims. Additional information and project updates are available on the project webpage (Reference 2).

Burnaby Lake North Interceptor Winston Section		Status
Progress	Construction (95% complete)	
Schedule	Main contract was delayed, but is now complete; schedule managed. The contract for diversion of the Sperling Forcemain is pending design completion and railway crossing permits	
Budget	On budget – subject to resolution of contractor claims	
Next Milestone	Complete detailed design and obtain permits for the Sperling Forcemain work	

Gilbert / Brighthouse Trunk Sewer (Gilbert Road Sewer Project)

The existing Gilbert and Brighthouse Trunk Sewers in Richmond have had ongoing maintenance issues. This project involves building a parallel sewer to enable rehabilitation of the existing line and provide capacity for growth.

To date, seven construction contracts have been completed involving the construction of 10 kilometres of new sewer. Remaining work includes two odour control facilities, connections at Blundell Road, restoration of a portion of the alignment, and rehabilitation of the existing line. The scope of rehabilitation has not yet been determined. Key risks include potential litigation, public impacts, condition of the existing line, and cost uncertainty on the remaining work associated with the Blundell connections. Additional information and project updates are available on the project webpage (Reference 3).

Gilbert / Brighthouse Trunk Sewer		Status
Progress	Construction (98% complete)	
Schedule	Portions of the current contract are being de-scoped and have been retendered; monitoring impact	
Budget	Rehabilitation of the existing trunk sewer was unexpected and will be incorporated into future budgets and planning	
Next Milestone	Award the contract for the Blundell connections and planning out the rehabilitation approach	

Glenbrook Combined Trunk Sewer Separation

The Glenbrook Combined Trunk Sewer services Burnaby and New Westminster, and it is the only combined sewer system in the Fraser Sewerage Area. The project will construct a new sanitary sewer from near Kingsway and 10th Avenue to near McBride and Columbia Street. Preliminary sizing indicates a 900 mm diameter sewer will be required, and this will be confirmed during preliminary design. Three additional branches extending into Burnaby east of Kingsway will also be required and will be implemented to suit the schedules of sewer separation in these municipalities.

Preliminary alignment work has been completed, and the project is moving into preliminary design. Most work will be open cut along local streets, with a tunnel required south of 6th Street parallel and west of McBride Boulevard. Construction is anticipated to start in 2031. Key risks include geotechnical (as the existing alignment generally follows the alignment of the historic Glenbrook Sewer), utility conflicts, public impacts, and maintaining direct household connections to the existing combined trunk sewer.

Glenbrook Combined Trunk Sewer Separation		Status
Progress	Preliminary Design (5% complete)	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Award the consulting services for preliminary design	

Iona Island Wastewater Treatment Plant Outfall Rehabilitation

The Iona Island Wastewater Treatment Plant (IIWWTP) discharges effluent to the receiving environment by way of the IIWWTP Outfall. This outfall needs to be rehabilitated to keep the asset in good operating condition and extend its service life. Design and analysis are underway to understand the best solution to maintain and extend this asset.

IIWWTP Outfall Rehabilitation		Status
Progress	Definition	
Schedule	Construction schedule to be determined following design solution	
Budget	On budget	
Next Milestone	Stage Gate 1 – Approval to proceed with preliminary design	

Iona Island Wastewater Treatment Plant Projects – Project Delivery

The IIWWTP Projects are being delivered to provide a higher level of treatment to comply with mandatory federal regulations. At the October 3, 2025 GVS&DD Board meeting, the Board approved an alternative approach to prioritize the delivery of secondary treatment in an incremental way to meet regulatory requirements. All components not required for secondary treatment are to be deferred into the future. As a result, an updated project cost estimate of \$6B was integrated into the 2026 Budget and 2026–2030 Five-Year Financial Plan.

The project continues to deliver the Phase 1 early and enabling works, supported by one-third funding from the Province of BC and one-third funding from the federal government. Staff are currently engaging with the Province on aligning federal and provincial wastewater effluent regulations and completing preliminary design for the treatment plant. Additional information and project updates are available on the project webpage (Reference 4).

Iona Island Wastewater Treatment Plant Projects		Status
Progress	Preliminary Design (including early works) 10% complete	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Stage Gate 2- Approval to proceed with detailed design	

Northwest Langley Wastewater Treatment Plant Expansion Program – Project Delivery

The Northwest Langley Wastewater Treatment Plant Expansion Program is being built to accommodate population growth, reduce nuisance odours, and improve seismic and climate change-related resiliency. The program includes four components: the Golden Ears Pump Station and Storage Tank, completed in 2024; the Fraser River Crossing, completed in 2025; the wastewater treatment plant expansion, which is nearing completion of detailed design; and the replacement outfall, which is undergoing an environmental impact study.

The program schedule was negatively impacted by archaeological permitting challenges identified in 2023, following the completion of extensive archaeological investigations that began in 2020. This issue has been resolved and the impacts on the budget are being monitored. Pre-construction recommenced in May 2026 to prepare for construction of the wastewater treatment plant that is set to commence in 2028.

Metro Vancouver will continue to monitor the schedule impacts and associated budget implications, for which the GVS&DD Board will receive an update at the next Stage Gate 3 to seek approval to proceed to construction. The program's forecasted completion date is 2036. Additional information and project updates are available on the project webpage (Reference 5).

Northwest Langley Wastewater Treatment Plant Expansion Program		Status
Progress	Detailed Design approximately 90% complete	
Schedule	Schedule impacted by archaeological permitting challenges that have since been resolved	
Budget	On budget (endorsed at Stage Gate 2) - reviewing impact due to schedule delay and market feedback	
Next Milestone	Stage Gate 3 – Approval to proceed with construction	

North Shore Wastewater Treatment Plant Program – Project Delivery

The North Shore Wastewater Treatment Plant is being built to meet federal regulatory requirements. It will replace the current primary treatment Lions Gate Wastewater Treatment Plant. It will serve over 300,000 residents and businesses on the North Shore and provide treatment to the tertiary filtration level to better protect the environment. Also included in the Program are:

- The pump station and sewer pipes to serve the new plant (the Conveyance Project). Construction of these works is largely complete, other than final works to be completed following completion of the treatment plant.
- The preliminary design for decommissioning the existing Lions Gate Wastewater Treatment Plant. This work will occur in the coming years.

The GVS&DD Board reset the budget in 2024 with an updated project cost estimate of \$3.86B and awarded a contract to complete the plant by a new contractor. Following these Board decisions, the Program is progressing through construction and is currently on track to be delivered within the approved budget and schedule. Monthly public updates are available on the project webpage (Reference 6).

North Shore Wastewater Treatment Plant Program		Status
Progress	Construction. The overall program is approximately 25% complete	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Stage Gate 4 – Close out	

North Surrey Interceptor Improvements and Twinning

The existing North Surrey Interceptor (NSI) is in poor condition, nearing end of life, and lacks capacity for projected growth. The program includes multiple projects and aims to rehabilitate 9 kilometres of the NSI and increase system capacity by twinning portions of it. The work is advancing in phases to address critical needs first. The first construction contract, installing a new 800-metre-long sewer by tunnelling along River Road in Surrey (Manson Road Section 1), is scheduled for tender in 2027. The entire program is expected to be complete by 2040. Early engagement with City of Surrey staff has occurred and a comprehensive engagement process with First Nations, residents, and other affected parties is being implemented. Key risks include geotechnical, environmental, traffic, property, and archaeological permitting challenges.

North Surrey Interceptor Improvements and Twinning		Status
Progress	Manson Road Section 1 – Detailed Design (95% complete) Balance of NSI Program – Definition (20% complete)	
Schedule	On schedule – monitoring property and permitting risks	
Budget	On budget – monitoring property and technical risks	
Next Milestone	Tender the construction services for Manson Road Section 1	

North Surrey Interceptor Sanitary Sewage Overflow Storage

The NSI Sanitary Sewage Overflow (SSO) Storage Tank is a planned 35,000 m³ tank near 135th Street and South Fraser Perimeter Road. It will help alleviate sanitary sewer overflows into the Fraser River and will operate in conjunction with the recently completed Golden Ears SSO Storage Tank. The project involves realigning a section of the existing sewer prior to constructing the tank facility. The work is in the design phase and is being advanced using a Construction Manager at Risk (CMAR) delivery model. The Request for Proposals for the contractor has closed and evaluation is underway. Advanced works for site preparation activities are underway, and relocation of the existing NSI by a third contractor is planned to start later this year. Key risks include reaching a fixed price with the CMAR proponent and integration of the control systems to operate the two tanks in a coordinated fashion. Additional information and project updates are available on the project webpage (Reference 7).

North Surrey Interceptor Sanitary Sewage Overflow Storage		Status
Progress	NSI Realignment – Construction tender award in progress NSI SSO Tank – Detailed Design (5% complete)	
Schedule	On schedule – the NSI relocation work has been delayed, but it is not on the critical path	
Budget	Budget increase proposed for the 2027 capital program to address municipal off-site servicing requirements and increase contingency.	
Next Milestone	Award the construction contract for NSI realignment work Award the CMAR Pre-construction Services contract	

Port Coquitlam Pump Station

The Port Coquitlam Pump Station involves replacement of the existing pump station on the same site to address maintenance issues and allow for future growth. The project is in the design phase and a Value Engineering review was recently completed to identify opportunities for cost efficiencies. The tentative timeline for construction is 2028 to 2030. Key risks include property issues (leased land owned by City of Port Coquitlam), geotechnical concerns (there is an artesian aquifer at depth underlying the site), public impacts, and maintenance of operations during construction.

Port Coquitlam Pump Station		Status
Progress	Detailed Design (5% complete)	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Secure municipal approvals (zoning, preliminary plan approval, building permit)	

South Surrey Interceptor and North Surrey Interceptor - Fraser River Crossing

The South Surrey Interceptor (SSI) and NSI transport the majority of the flow to the AIWWTP and are expected to have capacity constraints in the near future. This project aims to increase the collections system capacity to the AIWWTP and is currently in the definition stage.

Key decisions to be made include:

- Whether to build one combined crossing with a connecting sewer on the south shore of the Fraser River or two separate stand-alone crossings
- Crossing size and capacity
- Construction methodology (dredging, deep tunnel or directional drill) and approach to seismic resilience

These unknowns represent risks to both budget and schedule, along with geotechnical, environmental, archaeological, and property risks. Technical risks are partly mitigated by recent tunnelling experience in the area, including the AIWWTP Outfall and the Annacis Water Main River Crossing projects. Lessons learned from those projects have informed planning and will continue to guide risk monitoring. The tentative timeline for construction is 2031 to 2035, however this is contingent upon the option chosen. The Request for Proposals for engineering services to support Conceptual Design has been issued.

South Surrey Interceptor and North Surrey Interceptor - Fraser River Crossing		Status
Progress	Project Definition (15% complete)	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Award the conceptual engineering services	

Remaining Projects

The GVS&DD Capital Program includes an additional 151 individual projects or programs of work with estimated costs of \$2.5B. These projects are in various phases from not yet started to in close out. Financial performance indicators of these projects are provided in **Attachment 1**. These projects all proceed through stage gates and formal approvals and adhere to proper project controls suitable for the size and complexity of the work.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

As part of the GVS&DD capital planning process, the timing of each project is reviewed and updated annually based on available resources, strategic prioritization, risk to system operations and financial sustainability. The Liquid Waste Capital Program as a whole is progressing within plan parameters. Each project is subject to its own cost review on a regular basis, as well as regular stage gate approvals. Project-specific reports will be provided to the Committee and Board as warranted to provide greater detail and address any required changes to project scope, schedule or budget.

CONCLUSION

This report provides a status update of the GVS&DD Capital Program with summaries for larger projects (i.e. cost of >\$100M), highlighting progress, schedule, budget, and upcoming milestones, and an overall summary of remaining projects. These updates are provided three times a year for the Liquid Waste Committee and GVS&DD Board in February, July, and November to provide timely line of sight for the April Board Budget Workshop, input into the annual budget and five-year financial plan for October, and an end-of-year update. Individual project reports will continue to be provided as needed, particularly at key decision-making milestones.

ATTACHMENTS

1. Status of Projects with Total Estimated Costs >\$100M.
2. Liquid Waste Services Capital Projects Financial Reporting.
3. Presentation re: 2026 Liquid Waste Services Capital Program Update No. 2.

REFERENCES

1. Metro Vancouver, Annacis Island Wastewater Treatment Plant. metrovancover.org/services/liquid-waste/annacis-island-wastewater-treatment-plant
2. Metro Vancouver, Winston Street Sewer Project. metrovancover.org/services/liquid-waste/winston-street-sewer-project
3. Metro Vancouver, Gilbert Road Sewer. metrovancover.org/services/liquid-waste/gilbert-road-sewer
4. Metro Vancouver, Iona Island Wastewater Treatment Plant Projects. metrovancover.org/services/liquid-waste/iona-island-wastewater-treatment-plant-projects
5. Metro Vancouver, Northwest Langley Wastewater Treatment Plant Expansion Program. metrovancover.org/services/liquid-waste/northwest-langley-wastewater-treatment-projects
6. Metro Vancouver, North Shore Wastewater Treatment Plant Program. metrovancover.org/services/liquid-waste/north-shore-wastewater-treatment-plant-project
7. North Surrey Storage Tank Project. metrovancover.org/services/liquid-waste/north-surrey-storage-tank-project

Status of Liquid Waste Capital Projects with Total Estimated Costs >\$100M

Project	Progress	Schedule	Budget
104th Avenue PS and FM for Redirection to NLWWTP			
AIWWTP Ammonia Removal – Side Stream			
AIWWTP Expansion Program (Stage 5, Digester, Outfall, Dryer)*			
AIWWTP Influent System Remediation			
Burnaby Lake North Interceptor Winston Section			
Gilbert / Brighthouse Trunk Sewer			
Glenbrook Combined Trunk Sewer Separation			
IIWWTP Outfall Rehabilitation			
Iona Island WWTP Projects*			
Northwest Langley WWTP Expansion Program*			
North Shore WWTP Program*			
North Surrey Interceptor Improvements and Twinning			
North Surrey Interceptor SSO Storage			
Port Coquitlam Pump Station			
South and North Surrey Interceptors – Fraser Crossings			

* Projects managed by Project Delivery Department.

Legend

-  On Track (schedule, budget).
-  Issues that are being monitored, but managed within budget.
-  Issues that may need to be escalated to Committee, Boards for decision.

Capital Expenditures as of May 31, 2026

Liquid Waste Services

Name	Driver	Active Phase	Timeline (Start Yr. - End Yr.)	Project Estimate	Total Actuals to Date (May 31)	2026 - 2030 Planned Expenditures	2026 Planned Annual Expenditures (in Budget)	2026 Forecasted Expenditures	2026 Actuals (Jan. 1 - May 31)	2026 Actual Expenditures to Forecasted Expenditures (%)	2026 Actual Expenditures Variance to Forecasted Expenditures (\$)	2026 Actual Expenditures to Planned Expenditures (%)
Iona Island Wastewater Treatment Plan	Upgrade	Design	2018 - 2040	6,000,000,000	187,845,990	1,063,823,000	85,953,000	60,348,077	27,485,089	46%	(32,862,987)	32%
North Shore WWTP Secondary Upgrade, Conveyance and Decommissioning	Upgrade	Construction	2014 - 2030	3,854,900,000	1,243,522,139	2,556,131,000	543,005,000	543,005,000	180,127,561	33%	(362,877,439)	33%
Northwest Langley Wastewater Treatment Program	Growth	Multiple	2018 - 2035	2,280,650,000	473,316,706	867,141,000	43,006,000	43,598,806	5,942,824	14%	(37,655,982)	14%
AIWWTP Stage 5 Expansion	Growth	Multiple	2011 - 2034	1,340,200,000	576,570,201	322,140,000	30,440,000	20,126,322	5,946,275	30%	(14,180,046)	20%
Regional Biosolids Dryer – AIWWTP	Opportunity	Design	2025 - 2035	641,450,000	38,545,278	90,460,000	2,000,000	1,021,529	16,589	2%	(1,004,941)	1%
South Surrey Interceptor & North Surrey Interceptor - Fraser River Crossing	Growth	Definition	2026 - 2035	632,000,000	527,106	24,300,000	2,000,000	2,023,583	111,682	6%	(1,911,900)	6%
AIWWTP Digester No. 9 and 10 (fomerly Digester No. 5)	Growth	Design	2025 - 2034	469,700,000	651,186	117,300,000	2,000,000	1,024,136	175,322	17%	(848,814)	9%
Annacis Outfall System	Growth	Construction	2015 - 2027	356,050,000	311,635,342	61,441,000	24,130,000	24,130,000	2,495,569	10%	(21,634,431)	10%
North Surrey Interceptor Improvements	Maintenance	Multiple	2024 - 2040	317,250,000	13,442,991	112,950,000	4,900,000	2,002,491	873,180	44%	(1,129,311)	18%
Glenbrook Combined Trunk Sewer Separation	Upgrade	Design	2026 - 2035	250,000,000	425,026	9,000,000	500,000	636,817	59,425	9%	(577,392)	12%
North Surrey Interceptor Twinning	Growth	Design	2027 - 2040	248,850,000	10,468	2,500,000	50,000	10,468	10,468	100%	-	21%
IIWWTP Outfall Refurbishment	Maintenance	Design	2022 - 2031	235,000,000	1,930,414	188,350,000	3,000,000	-	-	0%	-	0%
Gilbert/Brighthouse Trunk Pressure Sewer	Maintenance	Multiple	2010 - 2030	207,950,000	174,135,791	22,600,000	12,600,000	14,458,505	2,058,266	14%	(12,400,239)	16%
NSI SSO Storage	Upgrade	Construction	2020 - 2031	184,700,000	13,017,044	119,400,000	11,850,000	2,510,423	971,827	39%	(1,538,596)	8%
AIWWTP Influent System Remediation	Maintenance	Design	2025 - 2038	129,700,000	24,488,319	57,400,000	1,050,000	1,800,000	72,845	4%	(1,727,155)	7%
Port Coquitlam Pump Station Refurbishment	Maintenance	Design	2021 - 2030	129,600,000	5,211,338	70,900,000	6,400,000	799,772	174,238	22%	(625,534)	3%
AIWWTP Ammonia Removal – Sidestream	Upgrade	Design	2025 - 2038	126,950,000	1,500,161	11,050,000	950,000	700,000	46,165	7%	(653,835)	5%
104th Ave PS and FM for Redirection to NLWWTP	Growth	Design	2026 - 2035	125,000,000	37,258	19,550,000	1,550,000	550,000	18,562	3%	(531,438)	1%
Burnaby Lake North Interceptor Winston Section	Growth	Construction	2018 - 2027	111,800,000	102,999,067	3,180,000	580,000	2,631,044	1,351,367	51%	(1,279,677)	233%
Total > \$100M						5,719,616,000	775,964,000	721,376,972	227,937,255	32%	(493,439,717)	29%
South Surrey Interceptor Johnston Section	Growth	Construction	2017 - 2027	98,300,000	77,479,127	15,700,000	15,400,000	22,642,990	4,529,399	20%	(18,113,591)	29%
Sapperton Pump Station	Growth	Construction	2017 - 2028	96,050,000	92,174,044	5,575,000	1,375,000	537,217	272,668	51%	(264,549)	20%
AIWWTP Trickling Filter Media & Distributor Arms & Ducting Replacement	Maintenance	Construction	2018 - 2026	90,700,000	76,063,712	800,000	800,000	1,050,000	64,681	6%	(985,319)	8%
Cloverdale Pump Station Capacity Upgrade	Growth	Construction	2017 - 2034	88,150,000	2,048,894	37,050,000	2,600,000	5,280,817	757,025	14%	(4,523,792)	29%
South Surrey Interceptor Rehabilitation	Maintenance	Multiple	2023 - 2031	87,050,000	1,104,246	71,550,000	1,700,000	1,338,753	306,655	23%	(1,032,097)	18%
AIWWTP Cogeneration Backup Power	Resilience	Design	2017 - 2026	81,100,000	79,737,923	100,000	100,000	955,434	169,271	18%	(786,164)	169%
LIWWTP New Influent Conduit and Headworks	Resilience	Design	2026 - 2032	80,600,000	-	12,235,000	125,000	-	-	0%	-	0%
New Westminster Interceptor West Branch and Columbia Extension Rehabilitation	Maintenance	Construction	2022 - 2030	80,400,000	2,498,140	76,050,000	6,100,000	2,238,612	332,039	15%	(1,906,573)	5%

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Liquid Waste Services

Name	Driver	Active Phase	Timeline (Start Yr. - End Yr.)	Project Estimate	Total Actuals to Date (May 31)	2026 - 2030 Planned Expenditures	2026 Planned Annual Expenditures (in Budget)	2026 Forecasted Expenditures	2026 Actuals (Jan. 1 - May 31)	2026 Actual Expenditures to Forecasted Expenditures (%)	2026 Actual Expenditures Variance to Forecasted Expenditures (\$)	2026 Actual Expenditures to Planned Expenditures (%)
Sewer Heat Projects	Opportunity	Construction	Ongoing - 2031	71,500,000	-	36,125,000	150,000	-	-	0%	-	0%
Stoney Creek Sanitary Trunk	Growth	Construction	2022 - 2030	69,750,000	6,938,322	62,850,000	4,000,000	7,512,733	3,098,693	41%	(4,414,040)	77%
LIWWTP Trickling Filter Refurbishment	Maintenance	Construction	2023 - 2034	68,550,000	1,754,131	43,600,000	13,650,000	2,893,457	298,063	10%	(2,595,394)	2%
IIWWTP Biosolids Dewatering Facility	Upgrade	Construction	2017 - 2027	66,300,000	64,987,542	5,670,000	5,600,000	675,995	146,354	22%	(529,641)	3%
IIWWTP Solids Handling Refurbishment	Maintenance	Construction	2017 - 2026	63,850,000	58,833,802	50,000	50,000	2,000,000	48,693	2%	(1,951,307)	97%
Production Way Operation Centre	Upgrade	Multiple	2023 - 2029	54,150,000	1,241,381	51,750,000	5,625,000	330,000	150,193	46%	(179,807)	3%
Baynes Road Pump Station Redirection	Maintenance	Not Started	2029 - 2035	50,000,000	-	1,200,000	-	-	-	0%	-	0%
Gleneagles Pump Stations Improvements	Maintenance	Construction	2018 - 2032	45,300,000	23,812,757	12,280,000	2,400,000	4,162,736	1,470,883	35%	(2,691,854)	61%
New West Interceptor - Annacis Section 2	Maintenance	Construction	2017 - 2030	45,000,000	10,893,994	28,700,000	3,550,000	10,570,453	1,034,354	10%	(9,536,100)	29%
AIWWTP Hydrothermal Processing Pilot	Opportunity	Construction	2018 - 2027	44,000,000	21,895,616	15,700,000	11,850,000	18,187,013	3,165,993	17%	(15,021,020)	27%
Cloverdale Trunk Sewer Capacity Upgrade	Growth	Design	2022 - 2032	39,000,000	382,123	23,000,000	250,000	500,000	4,588	1%	(495,412)	2%
New Westminster Interceptor Repair Columbia St. Section	Maintenance	Construction	2017 - 2028	37,100,000	33,719,947	2,650,000	400,000	382,360	89,886	24%	(292,474)	22%
LIWWTP SCL Refurbishment	Maintenance	Construction	2024 - 2032	36,800,000	635,589	28,125,000	1,125,000	1,384,951	139,367	10%	(1,245,583)	12%
AIWWTP Secondary Clarifier Corrosion Repair	Maintenance	Construction	2017 - 2028	36,300,000	34,772,369	2,000,000	650,000	770,000	302,085	39%	(467,915)	46%
Westridge Pump Stations 1 & 2 Refurbishment	Maintenance	Construction	2017 - 2029	34,600,000	5,094,956	26,500,000	7,100,000	6,829,809	1,291,766	19%	(5,538,043)	18%
Marshend Pump Station	Growth	Construction	2017 - 2029	34,450,000	4,754,409	29,700,000	1,600,000	1,499,692	677,473	45%	(822,218)	42%
Crescent Beach FM - Replacement	Maintenance	Construction	2017 - 2026	34,350,000	33,797,809	50,000	50,000	36,910	46,029	125%	9,120	92%
Hollyburn Interceptor - Kew Road Section	Maintenance	Not Started	2027 - 2033	31,000,000	-	4,050,000	-	-	-	0%	-	0%
Port Moody Forcemain Replacement	Maintenance	Design	2026 - 2031	30,500,000	-	30,300,000	1,000,000	-	-	0%	-	0%
LIWWTP Gravity Thickener Redundancy	Maintenance	Design	2023 - 2032	30,500,000	1,026,415	29,725,000	1,600,000	1,083,074	258,531	24%	(824,543)	16%
North Surrey Interceptor - Port Mann Section - Odour Control	Upgrade	Construction	2017 - 2029	29,600,000	918,444	28,835,000	935,000	669,235	182,502	27%	(486,732)	20%
VSA Emergency Backup Power	Resilience	Construction	2017 - 2027	29,300,000	19,902,017	2,750,000	2,500,000	3,900,657	517,137	13%	(3,383,521)	21%
FSA Statutory Right of Way Acquisitions Phase 1	Maintenance	Design	2022 - 2026	25,450,000	18,417,439	6,200,000	6,200,000	600,801	600,801	100%	-	10%
VSA Sewer Relocations and Protections	Maintenance	Construction	2019 - 2029	24,050,000	18,021,642	5,730,000	730,000	-	-	0%	-	0%
Gleneagles Forcemain Replacement	Maintenance	Construction	2017 - 2027	23,950,000	7,359,348	12,950,000	7,000,000	6,755,000	864,820	13%	(5,890,180)	12%
Port Moody Pump Station Capacity Upgrade	Growth	Design	2017 - 2030	23,700,000	538,165	23,000,000	600,000	244,596	13,909	6%	(230,687)	2%
North Road Trunk Sewer	Growth	Construction	2017 - 2028	23,650,000	18,757,992	6,015,000	3,015,000	2,087,690	1,230,332	59%	(857,357)	41%
Burnaby South Slope Interceptor	Growth	Definition	2022 - 2034	22,700,000	6,129	1,100,000	-	-	-	0%	-	0%
Annacis Influent System Surge Control Refurbishment	Growth	Construction	2017 - 2028	22,000,000	15,853,141	5,500,000	1,000,000	2,369,523	148,105	6%	(2,221,419)	15%
SSI - King George Section - Odor Control Facility (OCF) and Grit Chamber	Growth	-	Complete	17,800,000	17,750,879	-	-	5,383	5,383	100%	-	0%
SSI Delta - Air Management Facility Construction	Upgrade	Construction	2017 - 2027	17,450,000	6,526,208	10,000,000	9,000,000	6,238,514	984,089	16%	(5,254,425)	11%
EMQC-Chemistry Laboratory	Upgrade	Construction	2023 - 2028	17,200,000	859,272	14,450,000	1,250,000	356,041	72,049	20%	(283,992)	6%

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Name	Driver	Active Phase	Timeline (Start Yr. - End Yr.)	Project Estimate	Total Actuals to Date (May 31)	2026 - 2030 Planned Expenditures	2026 Planned Annual Expenditures (in Budget)	2026 Forecasted Expenditures	2026 Actuals (Jan. 1 - May 31)	2026 Actual Expenditures to Forecasted Expenditures (%)	2026 Actual Expenditures Variance to Forecasted Expenditures (\$)	2026 Actual Expenditures to Planned Expenditures (%)
Ocean Park Trunk - Crescent Beach PS Section Replacement	Maintenance	Design	2026 - 2030	16,600,000	-	16,550,000	50,000	-	-	0%	-	0%
NVI Lynn Branch Siphon – SSO Treatment	Upgrade	Design	2026 - 2031	15,500,000	-	11,700,000	50,000	-	-	0%	-	0%
Royal Ave PS Rehabilitation	Maintenance	Construction	2017 - 2026	15,250,000	14,176,314	700,000	700,000	1,328,153	810,240	61%	(517,913)	116%
White Rock Pump Station Upgrades	Growth	Design	2026 - 2033	15,000,000	-	4,500,000	600,000	200,000	-	0%	(200,000)	0%
LIWWTP Power Reliability	Resilience	Construction	2017 - 2028	14,900,000	5,441,521	8,060,000	4,230,000	1,429,998	251,410	18%	(1,178,588)	6%
White Rock Forcemain Rehabilitation	Maintenance	Construction	2021 - 2029	14,850,000	1,037,160	13,750,000	5,200,000	239,412	23,794	10%	(215,618)	0%
AIWWTP ICS Replacement Program	Maintenance	Construction	2022 - 2031	14,350,000	2,187,668	11,000,000	1,000,000	1,000,000	(97,150)	-10%	(1,097,150)	-10%
8th Avenue Interceptor Air Treatment Facilities	Upgrade	Design	2017 - 2033	14,150,000	437,995	6,700,000	50,000	-	-	0%	-	0%
AIWWTP Stage 5 Expansion - Optimization Works	Growth	Construction	2025 - 2028	13,400,000	500,684	13,100,000	2,900,000	2,550,000	390,858	15%	(2,159,142)	13%
Columbia Forcemain (CLT) Rehabilitation	Maintenance	Construction	2025 - 2026	13,000,000	11,146,557	2,000,000	2,000,000	13,834,148	5,142,705	37%	(8,691,444)	257%
LIWWTP Biogas Clean-up Project	Opportunity	-	Complete	12,850,000	12,856,891	-	-	6,636	6,636	100%	-	0%
Westridge FM Replacement	Maintenance	Construction	2017 - 2028	12,250,000	2,648,385	5,550,000	2,550,000	5,684,734	719,351	13%	(4,965,383)	28%
IIWWTP ICS Migration Program	Maintenance	Design	2025 - 2032	12,000,000	22,745	7,500,000	500,000	350,000	-	0%	(350,000)	0%
LIWWTP Effluent Heat Recovery Project	Opportunity	Construction	2023 - 2028	11,650,000	1,461,220	8,800,000	5,600,000	2,000,000	92,196	5%	(1,907,804)	2%
Surrey Corrosion Control Facility Replacement	Maintenance	Construction	2019 - 2028	11,250,000	1,487,702	9,431,000	1,406,000	892,863	179,656	20%	(713,208)	13%
NSA Scour Protection Upgrades	Maintenance	Construction	2022 - 2027	11,000,000	674,610	10,250,000	10,000,000	3,458,699	49,661	1%	(3,409,038)	0%
Rosemary Heights Pressure Sewer Capacity Upgrade	Growth	Not Started	2027 - 2032	10,750,000	-	4,050,000	-	-	-	0%	-	0%
AIWWTP Outfall Repair	Maintenance	Construction	2025 - 2029	10,700,000	-	10,650,000	500,000	-	-	0%	-	0%
NLWWTP 25 kV Substation Replacement	Maintenance	-	Complete	9,900,000	9,840,375	-	-	5,917	5,917	100%	-	0%
AIWWTP O&M Building Refurbishment	Maintenance	Construction	2026 - 2030	9,600,000	-	9,200,000	500,000	-	-	0%	-	0%
New West Interceptor Grit Chamber	Maintenance	Construction	2017 - 2029	9,300,000	224,321	9,000,000	100,000	574	574	100%	-	1%
Glenbrook Combined Trunk Kingsway Sanitary Section	Growth	Construction	2018 - 2027	8,600,000	6,153,359	2,000,000	50,000	84,224	23,212	28%	(61,011)	46%
Ocean Park Trunk Sewer - Air Management Facility	Upgrade	Design	2022 - 2029	7,750,000	1,769,390	5,660,000	670,000	5,273	5,273	100%	-	1%
VSA Statutory Right of Way Acquisitions Phase 1	Maintenance	Construction	2025 - 2026	7,500,000	1,192,820	4,500,000	4,500,000	-	-	0%	-	0%
IIWWTP PA Tanks Improvement	Maintenance	Construction	2024 - 2030	7,500,000	138,030	7,250,000	600,000	50,000	1,370	3%	(48,631)	0%
LIWWTP Power Distribution Center Replacements	Maintenance	Design	2025 - 2032	7,250,000	21,263	5,750,000	350,000	126,286	7,549	6%	(118,737)	2%
LIWWTP Pilot Digestion Optimization Facility	Opportunity	Construction	2018 - 2028	7,200,000	4,132,434	2,956,000	1,133,000	541,625	24,827	5%	(516,798)	2%
WWTPs Electrical System Studies & Upgrades	Resilience	Construction	2021 - 2032	7,150,000	880,511	4,400,000	150,000	219,050	137,882	63%	(81,168)	92%
Glenbrook CSO Gate Replacement	Maintenance	Construction	2022 - 2026	7,100,000	5,755,911	470,000	470,000	1,094,657	52,844	5%	(1,041,813)	11%
AREC Commodities Line Improvements Project	Maintenance	Design	2025 - 2029	7,000,000	6,480	7,000,000	1,100,000	200,000	6,480	3%	(193,520)	1%
LIWWTP ICS Electrical Distribution System Migration Program	Maintenance	Design	2025 - 2030	7,000,000	172	6,900,000	1,350,000	750,000	172	0%	(749,828)	0%
LIWWTP ICS Replacement Program	Maintenance	Construction	2020 - 2027	6,750,000	5,107,267	2,500,000	1,250,000	1,250,000	547,068	44%	(702,932)	44%
Harbour PS Air Treatment Facilities	Upgrade	Not Started	2028 - 2034	6,400,000	-	800,000	-	-	-	0%	-	0%

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Name	Driver	Active Phase	Timeline (Start Yr. - End Yr.)	Project Estimate	Total Actuals to Date (May 31)	2026 - 2030 Planned Expenditures	2026 Planned Annual Expenditures (in Budget)	2026 Forecasted Expenditures	2026 Actuals (Jan. 1 - May 31)	2026 Actual Expenditures to Forecasted Expenditures (%)	2026 Actual Expenditures Variance to Forecasted Expenditures (\$)	2026 Actual Expenditures to Planned Expenditures (%)
Highbury Interceptor Diversion Junction Chamber Wall Rehabilitation	Maintenance	Construction	2023 - 2028	6,000,000	332,773	5,850,000	400,000	412,831	54,854	13%	(357,977)	14%
Harbour Sewerage Pump Station - Suction Piping Replacement	Maintenance	Construction	2024 - 2029	5,850,000	256,886	5,700,000	200,000	328,428	137,660	42%	(190,768)	69%
VSA Flow Metering Program	Maintenance	Construction	2018 - 2028	5,450,000	1,699,770	3,200,000	750,000	1,095,242	72,627	7%	(1,022,614)	10%
Harbour Pump Station Discharge Header Repair and Valve Replacements	Maintenance	Construction	2022 - 2026	5,350,000	3,680,966	500,000	500,000	1,714,000	142,265	8%	(1,571,735)	28%
Harbour Pump Station Power Distribution Equipment Replacement	Maintenance	Construction	2021 - 2027	5,350,000	2,033,610	3,250,000	1,800,000	1,923,166	416,980	22%	(1,506,186)	23%
Sapperton Pump Station Emergency Backup Power	Resilience	Construction	2022 - 2028	5,000,000	505,345	3,980,000	2,230,000	764,123	69,503	9%	(694,620)	3%
Spanish Banks PS HV Switchgear Replacement	Maintenance	Design	2026 - 2029	4,850,000	21,172	4,825,000	475,000	139,797	21,172	15%	(118,625)	4%
LIWWTP PA Tank Odour Control System	Upgrade	Design	2025 - 2029	4,700,000	3,159	4,625,000	175,000	150,000	3,159	2%	(146,841)	2%
NWP Dip Investigation and Repair	Maintenance	Construction	2025 - 2026	4,500,000	291,061	1,500,000	1,500,000	2,840,419	125,209	4%	(2,715,210)	8%
AIWWTP Replacement of ICS Equipment	Maintenance	-	Complete	4,500,000	4,566,390	-	-	73,764	73,764	100%	0	0%
FSA Flow Metering Program	Maintenance	Construction	2018 - 2026	4,300,000	2,626,319	750,000	750,000	763,710	65,262	9%	(698,448)	9%
Port Coquitlam Pump Station Overflow	Resilience	Not Started	2027 - 2029	4,250,000	-	4,210,000	-	-	-	0%	-	0%
Front Street Pressure Sewer Access Hatches Reinforcement	Maintenance	-	Complete	4,100,000	4,182,107	-	-	22,497	22,497	100%	-	0%
Combined Sewer Overflow Sampling Station Enhancements	Maintenance	Construction	2019 - 2028	4,000,000	2,508,488	1,345,000	800,000	546,016	369,025	68%	(176,991)	46%
FSA River Crossing Scour Protection Program - Phase 1	Maintenance	Construction	2023 - 2026	3,950,000	1,624,410	2,235,000	2,235,000	527,829	91,728	17%	(436,101)	4%
Jervis Sewerage Pump Station - Suction Piping Replacement	Maintenance	Design	2025 - 2029	3,500,000	135,180	3,400,000	150,000	205,016	85,139	42%	(119,877)	57%
Kent Pump Station High Voltage Switchgear Replacement	Maintenance	Construction	2022 - 2027	3,500,000	914,181	1,410,000	770,000	1,369,004	100,988	7%	(1,268,016)	13%
Port Moody South Interceptor Capacity Upgrade	Growth	Not Started	2027 - 2030	3,350,000	-	3,350,000	-	-	-	0%	-	0%
IIWWTP IPS Drive Remediation	Maintenance	Construction	2022 - 2029	3,300,000	544,535	2,700,000	800,000	606,189	16,282	3%	(589,907)	2%
LIWWTP PA-Sed Tank Refurbishment	Maintenance	Construction	2019 - 2027	3,200,000	1,351,281	2,017,000	1,010,000	600,802	87,672	15%	(513,130)	9%
AIWWTP Process Waste Drain Line Refurbishment	Maintenance	Construction	2025 - 2026	3,150,000	229,179	1,000,000	1,000,000	1,270,000	96,939	8%	(1,173,061)	10%
FSA Sewer Relocations and Protections	Maintenance	Construction	2021 - 2030	3,100,000	622,893	1,600,000	200,000	-	-	0%	-	0%
Hudson Forcemain Rehabilitation Phase 2/3	Maintenance	Not Started	2025 - 2026	3,100,000	-	3,100,000	3,100,000	520,000	-	0%	(520,000)	0%
LWS Pump Station Programmable Logic Controller Replacements	Opportunity	Multiple	2025 - 2029	3,000,000	31,633	2,650,000	650,000	266,886	29,300	11%	(237,586)	5%
Annacis MCC 80 051, 80 070, 80 071 Replacement	Maintenance	Construction	2017 - 2026	2,850,000	2,317,668	50,000	50,000	69,478	34,848	50%	(34,630)	70%
Port Moody Storm Drain Rehabilitation	Maintenance	Construction	2024 - 2026	2,850,000	232,753	1,280,000	1,280,000	2,113,437	38,272	2%	(2,075,165)	3%
Iona Island Control & Instrumentation Replacement 2011	Maintenance	Construction	2017 - 2027	2,750,000	2,593,073	450,000	250,000	150,000	69,462	46%	(80,538)	28%

Capital Expenditures as of May 31, 2026

Liquid Waste Services

Name	Driver	Active Phase	Timeline (Start Yr. - End Yr.)	Project Estimate	Total Actuals to Date (May 31)	2026 - 2030 Planned Expenditures	2026 Planned Annual Expenditures (in Budget)	2026 Forecasted Expenditures	2026 Actuals (Jan. 1 - May 31)	2026 Actual Expenditures to Forecasted Expenditures (%)	2026 Actual Expenditures Variance to Forecasted Expenditures (\$)	2026 Actual Expenditures to Planned Expenditures (%)
Big Bend Forcemain - Gate Replacement	Maintenance	Design	2017 - 2030	2,700,000	105,611	2,500,000	50,000	419,166	22,563	5%	(396,603)	45%
VSA Grit Chamber Access Improvements	Maintenance	Construction	2024 - 2027	2,700,000	125,295	650,000	400,000	101,691	12,662	12%	(89,029)	3%
AIWWTP Electrical Distribution System Protection Control and Monitoring	Upgrade	Construction	2019 - 2027	2,650,000	2,236,822	350,000	50,000	69,254	14,254	21%	(55,001)	29%
AIWWTP Bar Screen #1 Refurbishment	Maintenance	Construction	2025 - 2027	2,550,000	387,018	2,250,000	1,250,000	1,426,046	259,037	18%	(1,167,010)	21%
NSA Flow Metering Program	Maintenance	Construction	2019 - 2027	2,550,000	756,608	1,150,000	800,000	1,321,968	1,741	0%	(1,320,227)	0%
IIWWTP Replacement of CoGen Control System	Maintenance	Construction	2017 - 2026	2,500,000	2,069,382	100,000	100,000	210,616	137,098	65%	(73,518)	137%
AIWWTP Lubrication Storage Facility Conversion	Maintenance	Construction	2024 - 2027	2,500,000	63,174	1,950,000	600,000	39,380	4,371	11%	(35,009)	1%
IIWWTP CEPT Polymer Line Replacement	Maintenance	Construction	2023 - 2027	2,400,000	3,058,720	50,000	25,000	32,414	6,188	19%	(26,226)	25%
AIWWTP Sludge Control Building Electrical Room HVAC Upgrade	Maintenance	Construction	2023 - 2027	2,100,000	427,377	1,584,000	650,000	650,000	31,384	5%	(618,616)	5%
LIWWTP Ground Fault Detection System Replacement	Maintenance	Construction	2022 - 2029	2,050,000	277,645	1,650,000	750,000	772,344	10,393	1%	(761,951)	1%
IIWWTP Surge Mitigation	Maintenance	Construction	2026 - 2029	2,000,000	-	2,000,000	400,000	-	-	0%	-	0%
AIWWTP TF Pump 5 VFD Upgrade	Resilience	Design	2026 - 2031	1,900,000	-	1,800,000	50,000	50,000	-	0%	(50,000)	0%
IIWWTP ICS IPS Control Replacement	Maintenance	Construction	2020 - 2028	1,750,000	1,032,259	750,000	250,000	172	172	100%	-	0%
IIWWTP Non-Domestic Trucked Liquid Waste Alternative	Maintenance	Construction	2024 - 2026	1,700,000	78,316	1,150,000	1,150,000	1,670,525	43,818	3%	(1,626,707)	4%
AIWWTP Centrifuge Schwing HPU Replacement	Maintenance	Construction	2024 - 2026	1,350,000	1,267,059	100,000	100,000	118,942	118,942	100%	-	119%
Still Creek Culvert Rehabilitation - Gilmore section	Maintenance	Construction	2025 - 2028	1,350,000	109,552	1,300,000	100,000	203,383	28,254	14%	(175,130)	28%
Jervis Pump Station 25kV Voltage Conversion	Maintenance	Construction	2021 - 2026	1,300,000	510,215	245,000	245,000	37,523	241	1%	(37,282)	0%
LIWWTP High Efficiency Boiler	Maintenance	Construction	2019 - 2028	1,300,000	475,144	900,000	300,000	160,000	123,955	77%	(36,045)	41%
SSI Influent Control Chamber Repair and Replace Gates	Maintenance	Construction	2017 - 2027	1,300,000	122,985	1,120,000	1,110,000	240,030	32,407	14%	(207,623)	3%
IIWWTP Waste Gas Burner Redundancy	Maintenance	Construction	2025 - 2027	1,250,000	-	1,125,000	1,025,000	630,000	-	0%	(630,000)	0%
AIWWTP Scum Pump Replacement	Maintenance	Design	2025 - 2028	1,250,000	38,796	1,200,000	250,000	200,000	29,030	15%	(170,970)	12%
IIWWTP CEPT Winterization	Maintenance	-	Complete	1,200,000	1,019,756	-	-	88	88	100%	-	0%
AIWWTP IPS Pump Building Roof Replacement Phase 2	Maintenance	Construction	2024 - 2026	1,150,000	96,279	150,000	150,000	918,091	39,502	4%	(878,588)	26%
Ocean Park Trunk Manholes Lining	Maintenance	Construction	2025 - 2026	1,050,000	80,639	1,025,000	1,025,000	550,000	27,471	5%	(522,529)	3%
IIWWTP MCC/Power Distribution Assess/Replace - Phase 2	Maintenance	Construction	2017 - 2026	1,000,000	644,346	50,000	50,000	44,850	20,143	45%	(24,707)	40%
IIWWTP PA-Sed Tank & Gallery Wall Refurbishment	Maintenance	Construction	2024 - 2027	950,000	223,582	550,000	500,000	800,898	30,911	4%	(769,987)	6%
IIWWTP Medium Pressure Sludge Gas Blowers 3 & 4 Power Supply	Resilience	Construction	2025 - 2028	950,000	174,972	800,000	450,000	385,504	160,476	42%	(225,028)	36%
NLWWTP Standby Diesel Generator	Resilience	Construction	2024 - 2026	950,000	478,518	150,000	150,000	17,655	228	1%	(17,428)	0%
AIWWTP Chemical Lab UPS System Replacement	Maintenance	Construction	2021 - 2026	900,000	802,749	50,000	50,000	44,078	13,727	31%	(30,351)	27%
IIWWTP ICS Replacement Program	Maintenance	Construction	2022 - 2026	750,000	322,050	350,000	350,000	350,000	22,046	6%	(327,954)	6%
Eagle Creek (Lower Section) Channel Restoration	Resilience	Construction	2025 - 2026	750,000	-	700,000	700,000	-	-	0%	-	0%
LIWWTP Admin Dewatering Building Roof Repair	Maintenance	Construction	2023 - 2026	700,000	404,686	75,000	75,000	198,125	59,700	30%	(138,425)	80%

Capital Expenditures as of May 31, 2026
Liquid Waste Services

Name	Driver	Active Phase	Timeline (Start Yr. - End Yr.)	Project Estimate	Total Actuals to Date (May 31)	2026 - 2030 Planned Expenditures	2026 Planned Annual Expenditures (in Budget)	2026 Forecasted Expenditures	2026 Actuals (Jan. 1 - May 31)	2026 Actual Expenditures to Forecasted Expenditures (%)	2026 Actual Expenditures Variance to Forecasted Expenditures (\$)	2026 Actual Expenditures to Planned Expenditures (%)
Fraser Sewerage Area Integrated Resource Recovery (IRR) Study	Opportunity	Design	2020 - 2027	700,000	342,834	250,000	125,000	15,000	15,000	100%	-	12%
AIWWTP UPS Condition Monitoring System	Resilience	Construction	2026 - 2030	550,000	-	550,000	50,000	-	-	0%	-	0%
LIWWTP Gravity Thickener Odour Control System	Upgrade	Not Started	2030 - 2032	550,000	-	150,000	-	-	-	0%	-	0%
NSSA Sewer Relocations and Protections	Maintenance	Construction	2025 - 2027	450,000	-	400,000	375,000	-	-	0%	-	0%
IIWWTP Siphon Chamber Refurbishment	Maintenance	-	Complete	150,000	160,401	-	-	280	280	100%	-	0%
Total < \$100M						1,076,443,000	205,419,000	183,543,351	35,147,025	19%	(148,396,325)	17%
Total						6,796,059,000	981,383,000	904,920,322	263,084,280	29%	(641,836,042)	27%



Winston Street Sewer Construction

2026 Liquid Waste Services Capital Program Update No.2

LIQUID WASTE SERVICES

Colin Meldrum
Director, Engineering Design and Construction

Marek Ratajczak
Director, Project Delivery

Liquid Waste Committee – July 15, 2026
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LIQUID WASTE SERVICES CAPITAL PROGRAM UPDATE

July 2026

- Summaries for projects over \$100M
- Updates provided to Committee and Board three times a year
- Individual project reports will continue to be provided at key decision-making milestones

Capital Program Reporting												
	J	F	M	A	M	J	J	A	S	O	N	D
Capital Program Update		✓					✓				✓	
Additional Major Utility Project Updates					✓				✓			
Financial Performance Report				✓			✓				✓	

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LIQUID WASTE SERVICES CAPITAL PROGRAM UPDATE

Summary by Project >\$100m (1/2)

Project	Progress	Schedule	Budget
104th Avenue PS and FM for Redirection to NLWWTP	●	●	●
AIWWTP Ammonia Removal – Side Stream	●	●	●
AIWWTP Expansion Program (Stage 5, Digester, Outfall, Dryer)	●	●	●
AIWWTP Influent System Remediation	●	●	●
Burnaby Lake North Interceptor Winston Section	●	●	●
Gilbert / Brighthouse Trunk Sewer	●	●	●
Glenbrook Combined Trunk Sewer Separation	●	●	●
IIWWTP Outfall Rehabilitation	●	●	●

- On Track (schedule, budget)
- Issues that are being monitored, but managed within budget
- Issues that may need to be escalated to Committee, Boards for decision

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LIQUID WASTE SERVICES CAPITAL PROGRAM UPDATE

Summary by Project >\$100m (2/2)

Project	Progress	Schedule	Budget
Iona Island WWTP Projects	●	●	●
Northwest Langley WWTP Expansion Program	●	●	●
North Shore WWTP Program	●	●	●
North Surrey Interceptor Improvements and Twinning	●	●	●
North Surrey Interceptor SSO Storage	●	●	●
Port Coquitlam Pump Station	●	●	●
South and North Surrey Interceptors – Fraser Crossings	●	●	●

- On Track (schedule, budget)
- Issues that are being monitored, but managed within budget
- Issues that may need to be escalated to Committee, Boards for decision

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GLENEAGLES SEWER AND PUMP STATIONS

- Replace five pump stations:
 - Increase capacity
 - Improve operational access and safety
 - Prevent sewer overflows in a power outage
- Upgrade sections of Gleneagles Sewer:
 - Increase capacity
 - Enhance sewer reliability



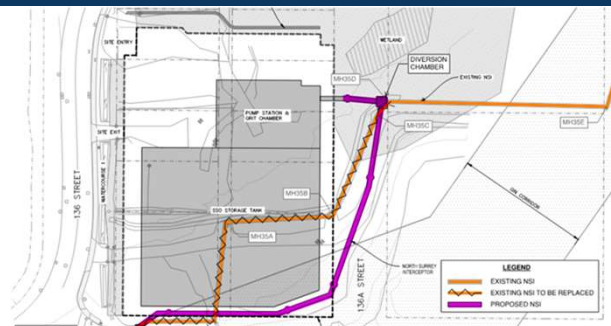
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NSI SANITARY SEWER OVERFLOW STORAGE TANK

- Part of an overall strategy to mitigate overflows to the Fraser River
- Maximize storage volume as permitted by site constraints (target ~34,000 m³)
- Two major components
 - NSI realignment
 - SSO storage tank



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NORTHWEST LANGLEY WWTP EXPANSION PROGRAM

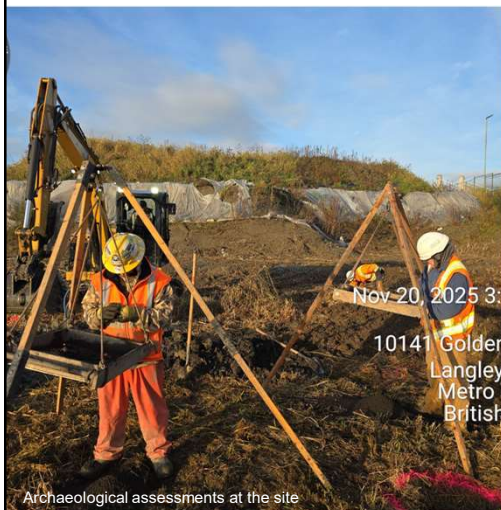


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NORTHWEST LANGLEY WWTP EXPANSION PROGRAM



Archaeological assessments at the site



Ready to recommence pre-construction at the site

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To: Liquid Waste Committee

From: Winson Cheng, Senior Project Engineer, Business Development, Liquid Waste Services

Date: June 15, 2026

Meeting Date: July 15, 2026

Subject: **Sewage Diversion and Funding Agreement for Richmond Sewer Heat Recovery Project**

RECOMMENDATION

THAT the GVS&DD Board authorize:

- a) the investment of \$10 million (exclusive of taxes) from approved capital budget funds for GVS&DD infrastructure for a sewer heat recovery project; and
 - b) the GVS&DD Commissioner to execute the finalized agreement.
-

EXECUTIVE SUMMARY

This report seeks authorization to execute a Sewage Diversion and Funding Agreement with Lulu Island Energy Company (LIEC), as directed by the GVS&DD Board, in alignment with the Sewage and Waste: Heat Recovery Policy, using approved capital funds. The agreement is based on a GVS&DD Board resolution from November 24, 2023 that authorized a capital expenditure for this sewer heat recovery project and directed staff to enter into contract negotiations with LIEC.

PURPOSE

To seek GVS&DD Board authorization to invest \$10 million in new sewer heat recovery infrastructure for LIEC's future district energy facility in the City of Richmond, and to authorize the Commissioner to execute a sewage diversion and funding agreement with LIEC.

BACKGROUND

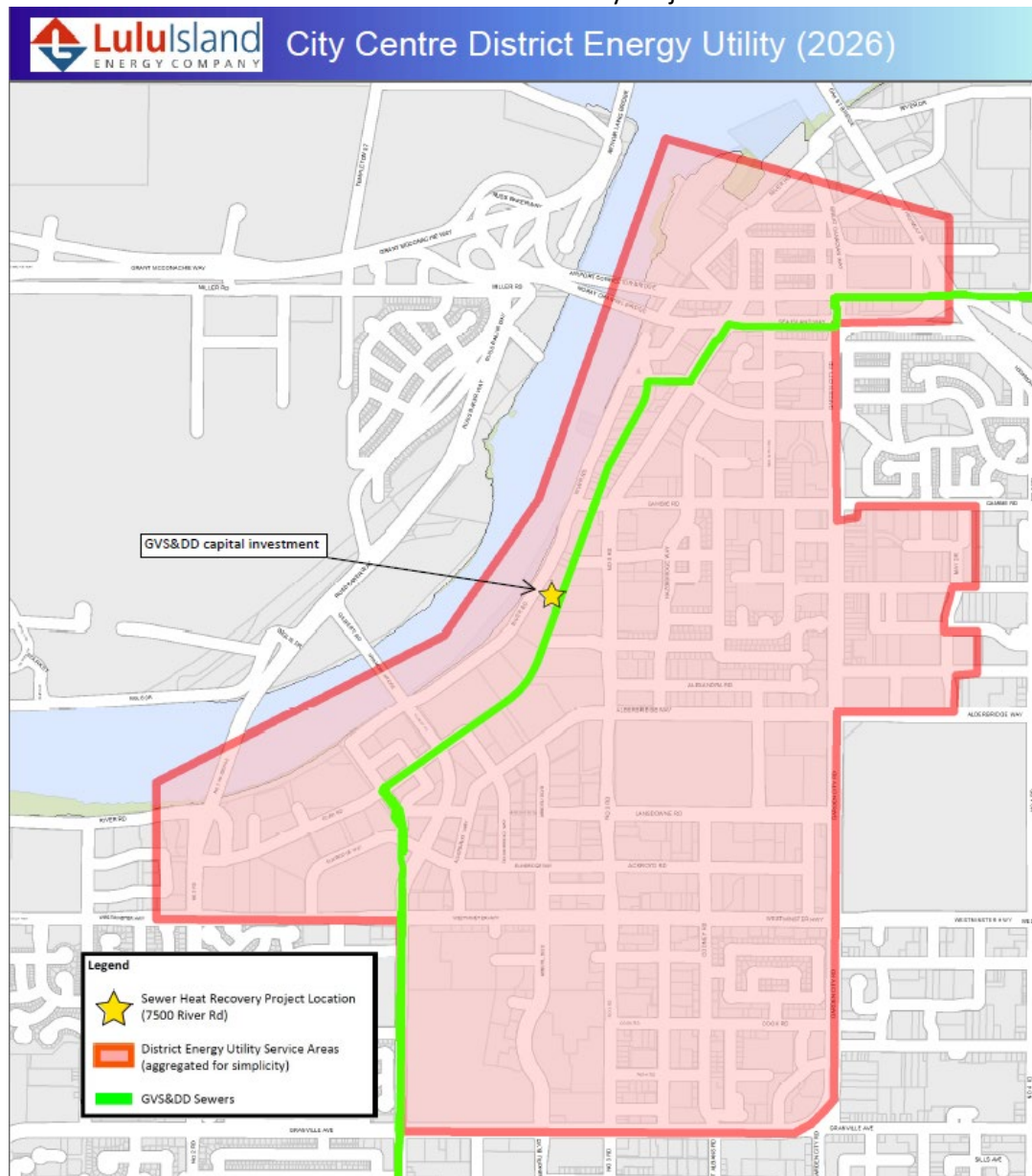
The City of Richmond and the LIEC are expanding a district energy system (see Figure 1) that plans to use waste heat recovered from sewage. Doing so will provide renewable energy to residents and businesses, reducing the use of fossil fuels and greenhouse gas emissions.

Sewage Diversion and Funding Agreement for Richmond Sewer Heat Recovery Project

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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Figure 1. Planned location of Richmond Sewer Heat Recovery Project



The *GVS&DD Sewage and Waste: Heat Recovery Policy* (Reference 1) enables waste heat from the liquid waste system to be used by municipalities and other external parties. It also provides guidelines for potential GVS&DD capital contributions to such projects. GVS&DD is capable of creating and supporting both regional and corporate greenhouse gas (GHG) emission reductions by capturing unused heat from sewage and making it available to municipalities and private parties for use, replacing fossil fuel combustion.

The 2026 *Liquid Waste Management Plan* (Reference 2) includes the action to recover energy from the liquid waste system to reduce regional GHG emissions and support the region's transition to clean energy.

Climate 2050 (Reference 3) commits Metro Vancouver to reducing regional GHG emissions. The *Carbon Price Policy* (Reference 4) establishes a price for carbon emission reductions for use in business case analyses.

On November 24, 2023, the GVS&DD Board passed the following resolution (see Attachment 1):

That the GVS&DD Board:

- a) direct staff to enter into contract negotiations with Lulu Island Energy Company for the Oval Village District Energy Utility Sewer Heat Recovery Project, as presented in the report dated October 26, 2023 titled “Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project”; and*
- b) authorize expenditures up to \$20 million as endorsed in the 2024 to 2028 capital plan.*

An agreement has been created for an investment using Board-approved capital funds.

BUSINESS CASE

LIEC is a district energy provider wholly owned by the City of Richmond that wishes to divert sewage for the GVS&DD sewage collection system to extract up to 8 megawatts (MW) of waste heat for their district energy system. An agreement has been developed for this purpose. Under its terms, GVS&DD will commit to invest a maximum of \$10 million in supporting liquid waste infrastructure. All operating and maintenance costs of the sewage diversion infrastructure will be recovered from LIEC.

Waste heat recovery from GVS&DD sewer systems will create regional GHG reductions by displacing the use of natural gas in LIEC’s district energy expansion in the City of Richmond. GHG reductions from the sewer heat recovery will be shared by GVS&DD and LIEC based on relative capital contributions. The cost of investing in these GHG reductions is consistent with the price of \$150 per tonne established in the *Carbon Price Policy*, making this a cost-effective GHG reduction project.

SUMMARY OF AGREEMENT

The Sewage Diversion and Funding Agreement (**Attachment 2**) covers categories including compensation and cost-recovery; district funding; environmental attributes; risk allocation and liability; responsibilities for design, construction, operation and maintenance; ownership of infrastructure; and diversion and return of sewage.

ALTERNATIVES

1. THAT the GVS&DD Board authorize:
 - a) the investment of \$10 million (exclusive of taxes) from approved capital budget funds for GVS&DD infrastructure for a sewer heat recovery project; and
 - b) the GVS&DD Commissioner to execute the finalized agreement.
2. THAT the GVS&DD Board receive the report dated June 15, 2026 titled “Sewage Diversion and Funding Agreement for Richmond Sewer Heat Recovery project” for information.

FINANCIAL IMPLICATIONS

If the Board approves Alternative 1, GVS&DD will invest up to \$10,000,000 in GVS&DD-owned infrastructure to support the sewer heat recovery project. GVS&DD would receive GHG emission reduction credits in exchange for the capital investment, in alignment with the Carbon Price Policy. The agreement recovers all operating and maintenance costs for sewer heat recovery from LIEC.

If the Board approves Alternative 2, no financial costs will be incurred. However, the opportunity to use approved capital funds to invest in sewer heat recovery infrastructure in exchange for GHG reduction credits will be foregone.

Sewage Diversion and Funding Agreement for Richmond Sewer Heat Recovery Project

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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CONCLUSION

At the GVS&DD Board's direction, staff have developed a Sewage Diversion and Funding Agreement for a sewer heat recovery project in collaboration with the City of Richmond and the city's LIEC. The Agreement aligns with existing policies and plans, including the Sewage and Waste: Heat Recovery Policy, the Liquid Waste Management Plan, Climate 2050, and the Carbon Price Policy. The Agreement will use funds already approved in the capital budget.

The project will reduce regional GHG emissions on an ongoing basis into the future through the use of sewer heat, which is a renewable, clean energy source. Metro Vancouver will receive carbon credits in exchange for its capital investment, aiding the corporation's efforts to reduce its own GHG emissions.

Board authorization is required to execute the sewage diversion and funding agreement. Staff recommend Alternative 1.

ATTACHMENTS

1. Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project.
2. Summary of Key Terms.

REFERENCES

1. Metro Vancouver. (2022). *Sewage and Waste: Heat Recovery Policy*.
<https://metrovancover.org/services/liquid-waste/Documents/sewage-waste-heat-recovery-policy.pdf>
2. Metro Vancouver. (2026). *Liquid Waste Management Plan*.
<https://metrovancover.org/services/liquid-waste/Documents/lwmp-2026.pdf>
3. Metro Vancouver. (2019). *Climate 2050*.
<https://metrovancover.org/services/air-quality-climate-action/Documents/climate-2050-strategic-framework-2018.pdf>
4. Metro Vancouver. (2017). *Carbon Price Policy*.
<https://metrovancover.org/services/air-quality-climate-action/Documents/carbon-pricing-policy.pdf>

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To: Liquid Waste Committee

From: Jeff Carmichael, Division Manager, Business Development, Liquid Waste Services

Date: October 17, 2023 Meeting Date: November 8, 2023

Subject: **Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project**

RECOMMENDATION

That the GVS&DD Board:

- a) direct staff to enter into contract negotiations with Lulu Island Energy Company for the Oval Village District Energy Utility Sewer Heat Recovery Project, as presented in the report dated October 17, 2023 titled "Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project"; and
 - b) authorize expenditures up to \$20 million as endorsed in the 2024 to 2028 capital plan.
-

EXECUTIVE SUMMARY

Metro Vancouver's *Climate 2050* strategy (Reference 1) includes a target to achieve a 45% reduction in regional greenhouse gas emissions by 2030, from 2010 levels. Sewer heat recovery facilities will provide renewable, fossil fuel-free heat extracted from sewage to residents and businesses in the region. There is enough excess heat in the liquid waste collection system to heat 700 high rise buildings throughout the region.

The project will reduce greenhouse gas emissions, contributing to the *Climate 2050* Strategy, as guided by the *Sewage and Waste: Heat Recovery Policy*. The investment will be capped at \$20 million out of a total estimated district energy expansion project cost of \$146 million. The investment is based on the value of the anticipated greenhouse gas reductions over the life of the project, and was included in the endorsed 2024 to 2028 capital plan. Metro Vancouver will receive carbon credits based on relative costs incurred by both parties, which will contribute toward Metro Vancouver's goal of carbon neutrality.

PURPOSE

To present to the Liquid Waste Committee for consideration by the GVS&DD Board a recommendation to direct staff to negotiate a contract with Lulu Island Energy Company (LIEC) for the Oval Village District Energy Utility Sewer Heat Recovery Project, which will recover heat from the GVS&DD Bridgeport Trunk Sewers and make it available to the LIEC's District energy system, and to authorize expenditures up to \$20 million as endorsed in the 2024 to 2028 capital plan.

BACKGROUND

Several plans and policies provide the foundation for the recommendations in this report.

The *Integrated Liquid Waste and Resource Management Plan* (Reference 2) includes the goal to use liquid waste as a resource, and commitments to evaluate opportunities to expand the recovery of

Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project

Liquid Waste Committee Regular Meeting Date: November 8, 2023

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energy from the liquid waste system, and to implement projects based on business case evaluations for such projects.

The *Sewage and Waste: Heat Recovery Policy* (Reference 3) enables waste heat from the liquid waste system to be used by municipalities and other external parties. It also provides guidelines for GVS&DD financial contributions to such projects, which require capital funding by municipalities and potentially by Metro Vancouver. GVS&DD is capable of contributing to both regional and corporate greenhouse gas (GHG) emission reduction targets by capturing unused heat from sewage and making it available to municipalities and private parties for use, replacing fossil fuel combustion.

The *Carbon Price Policy* (Reference 4) establishes a price on GHG emissions, and directs staff to incorporate that value into life cycle cost analyses for projects.

The *Climate 2050* Strategy vision is that Metro Vancouver demonstrate bold leadership in responding to climate change. It commits to achieving a carbon-neutral region by 2050, with an interim target of reducing GHG emissions by 45% from 2010 levels by 2030.

On March 26, 2021, the GVS&DD Board approved an amendment to the *Cost Apportionment Bylaw 283* (Reference 5), to allocate heat recovery project investments using Tier III cost apportionment (100% regional). At the same meeting, the GVS&DD Board approved an amendment to the *Liquid Waste Heat Recovery Policy* (Reference 6), which expanded the scope of allowed investments to include sewer heat projects as well as wastewater treatment plant based effluent heat projects. The amendment allows the Board to consider approving capital contributions to sewer heat recovery projects to support collaborative district energy projects.

In collaboration with Lulu Island Energy Company, a proposed sewer heat recovery project has been developed to provide recovered heat to the Lulu Island Energy Company's district energy system, and a capital investment proposal to support the project has been created.

Business Case

Several sewer heat recovery projects are under development or assessment across the region. GVS&DD has previously supported projects including the Surrey District Energy Sewer Heat Recovery Project (\$19M), the Sapperton District Energy Project (\$18M), and the North Shore Wastewater Treatment Plant Effluent Heat Recovery Project (\$17M). Creative Energy Senakw Limited Partnership has also entered into an access only agreement with GVS&DD.

Lulu Island Energy Company is expanding its district energy systems in Richmond City Centre. The system expansion is proposed to use waste heat recovered from sewage to meet most heating needs, displacing natural gas use by existing customers.

Figure 1 shows a schematic of the proposed service area and the location of the proposed sewer heat recovery facility.

Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project

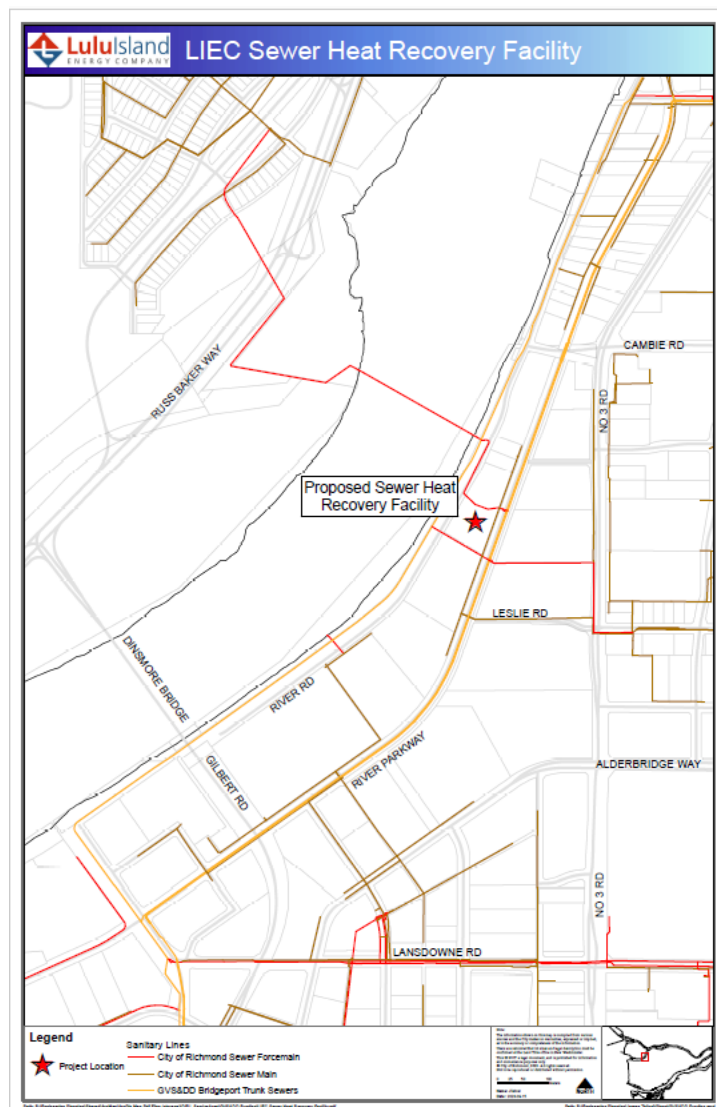
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The proposed sewer heat recovery infrastructure will be constructed on a municipally-owned site in north Richmond near the Richmond Olympic Oval. Connections will be established to the GVS&DD's Bridgeport Trunk Sewers. Heat will be extracted from the sewage and the sewage returned to the sewer main. Capital infrastructure and equipment is required to extract heat from the sewage.

It is proposed that GVS&DD make a capital investment for supporting sewer heat recovery equipment. The investment will be capped at \$20 million, which is based on the value of the anticipated GHG reductions over the life of the project. Metro Vancouver's investment will not be the primary funding source for the project: it is estimated that this investment will provide approximately 14 percent of the total capital cost of this district energy expansion project. In exchange, Metro Vancouver will receive carbon credits based on relative costs incurred by both parties, which will contribute toward Metro Vancouver's goal of carbon neutrality.

Figure 1. Proposed Oval Village District Energy Utility Sewer Heat Recovery Project



Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project

Liquid Waste Committee Regular Meeting Date: November 8, 2023

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Low carbon energy source options were evaluated by Lulu Island Energy Company, and it was determined that sewer heat-sourced energy is competitive with other clean energy sources, and is a lower risk long-term energy source than other sources.

Capital costs will be allocated by GVS&DD using Tier III cost apportionment, as a wastewater resource recovery project that will reduce GHG emissions regionally. Any and all operating and maintenance costs incurred by GVS&DD will be recovered from Lulu Island Energy Company.

Table 1. Business Case Summary

Item	GVS&DD	Lulu Island Energy Company
District energy system estimated capital costs	(\$20 million)	(\$126 million)
Spending authority requested	\$20 million	
Operating costs	\$0, all operating costs covered by LIEC	Additional costs borne by LIEC are to be determined
Revenues	\$0 / year as current policy does not charge for sewage or recovered heat	To be determined, based on rate structure to customers
Benefits from GHG reductions (as per Carbon Price Policy)	\$25 million	
Net benefit to GVS&DD	\$5 million	

The project is anticipated to reduce GHG emissions by 300,000 tonnes over the life of the project. GHG reductions, which are valued as benefits as per the *Carbon Price Policy*, are expected to generate \$25 million in benefits. GHG reductions at this location are voluntary, and may be transferred to other parties as credits. Metro Vancouver will receive some credits, as *per the Sewage and Waste: Heat Recovery Policy* guidelines. Terms of Reference for the proposed contract, including GHG reduction allocations, are outlined in Attachment 1.

Project Risks and Risk Mitigation Strategies

Given the long-term commitment and relatively large capital investment for the development of a district energy system, there are inherent risks. Key risks and mitigation strategies are listed in Attachment 2.

Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project

Liquid Waste Committee Regular Meeting Date: November 8, 2023

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ALTERNATIVES

1. That the GVS&DD Board:
 - a) direct staff to enter into contract negotiations with Lulu Island Energy Company for the Richmond City Centre Sewer Heat Recovery Project, as presented in the report dated October 17, 2023, titled “Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project”; and
 - b) authorize expenditures up to \$20 million as endorsed in the 2024 to 2028 capital plan.
2. That the GVS&DD Board receive for information the report dated October 17, 2023, titled “Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project” and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

If the Board approves Alternative 1, GVS&DD will authorize expenditures up to \$20 million for the project. The investment by Metro Vancouver is expected to be \$20M and will be capped at \$20M based on the application of the *Carbon Price Policy*. Metro Vancouver will receive carbon credits based on relative costs incurred by both parties, which will contribute toward Metro Vancouver’s goal of carbon neutrality. Costs will be recovered from GVS&DD members under Tier III cost apportionment (100% regional allocation). The household financial impact will be less than \$1 per household per year.

OTHER IMPLICATIONS

If GVS&DD funds equipment and facilities for delivering sewage to the district energy project, GVS&DD must own the equipment and facilities that it funds. As a result, there is a risk that GVS&DD will be subject to the British Columbia Utilities Commission authority. To mitigate this risk, GVS&DD would need to seek an exemption from the Commission for this project and other projects where GVS&DD funds infrastructure. The exemption will be a condition precedent to GVS&DD delivering funding to LIEC. An exemption application can be accomplished with existing staff. External legal assistance would likely be required, which will result in some costs.

CONCLUSION

In the *Climate 2050* strategy, Metro Vancouver has committed to reduce GHG emissions by 45% by 2030 compared to 2010 levels, and be a carbon neutral region by 2050. Metro Vancouver has the potential and opportunity to take action on climate change to reduce greenhouse gas emissions by enabling the provision of capital funding for new facilities that will provide renewable, fossil fuel-free heat extracted from sewage to residents and businesses in the region.

Several projects are currently under development and further potential exists. A proposed sewer heat recovery project has been developed in collaboration with Lulu Island Energy Company, which will provide clean, renewable energy to Lulu Island Energy Company’s district energy expansion in the City of Richmond. Metro Vancouver will make a capital investment of up to \$20 million for necessary sewer heat extraction infrastructure. All ongoing operation and maintenance costs will be borne by the district energy system owner. The benefits of the reduced GHG emissions from the proposed project are \$25 million. Staff recommend Alternative 1.

Proposed Capital Investment for the Oval Village District Energy Utility Sewer Heat Recovery Project

Liquid Waste Committee Regular Meeting Date: November 8, 2023

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ATTACHMENTS

1. GVS&DD and Lulu Island Energy Company Terms of Reference
2. Risk Matrix

REFERENCES

1. [*Climate 2050*](#)
2. [*Integrated Liquid Waste and Resource Management Plan*](#)
3. [*Sewage and Waste: Heat Recovery Policy*](#)
4. [*Carbon Price Policy*](#)
5. [*Tier III Cost Apportionment Bylaw Amendments*](#)
6. [*Liquid Waste Heat Recovery Policy Amendments to Expand Opportunities for Sewer Heat Recovery*](#)

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ATTACHMENT 1**GVS&DD AND LULU ISLAND ENERGY COMPANY AGREEMENT TERMS OF REFERENCE**

The terms of reference below between the Greater Vancouver Sewerage and Drainage District (GVS&DD) and Lulu Island Energy Company (LIEC) reflect the current intent of the parties in drafting a detailed agreement.

Preamble	
Contract Term	Initial term of 20 years from service commencement.
Proposed Sewer Heat Recovery Location	City of Richmond, along River Parkway between Gilbert Road and Cambie Road.
Subscribed Capacity	LIEC intends to recover up to 8 MW of thermal capacity from sewage in the GVS&DD's Bridgeport Trunk Sewers
Charges	All operating and maintenance costs incurred by GVS&DD will be recovered from LIEC.
Allocation of GHG Emissions Reductions	GVS&DD will receive some GHG credits, as per the Sewage and Waste: Heat Recovery Policy, which states: • Carbon allocation will be on the basis of relative financial contributions. • Transferred credits to be retained by GVS&DD until carbon neutrality achieved in a given year.

Terms will also be established concerning items including: termination or default by either party, scheduled outages, insurance, reporting, cooperation and coordination mechanisms, and dispute resolution mechanisms.

ATTACHMENT 2**RISK MATRIX**

Risk	Description	Mitigation Strategy
Capital Cost Risk	Overall costs are a key risk for any capital project.	The GVS&DD infrastructure capacity and the corresponding purchase will be structured to contain contingency of 50% to ensure that actual cost is less than budget.
City of Richmond Utility Risk	LIEC may not choose to proceed with development and expansion of their District Energy system in the City of Richmond.	The agreement will be structured such that GVS&DD's capital investment will only proceed if commitments are in place for development of the system.
	LIEC defaults under its third party agreements (including financing and operational), resulting in an entity that is not associated with the City of Richmond becoming an owner of the project.	This risk will be addressed in the agreement with LIEC. The agreement will be structured such that GVS&DD's capital investment will be repayable by creditors in the event that a third party assumes ownership of the project.
Regulatory Risk	Expected GHG emission reductions are based on current regulatory requirements in the City of Richmond. If those requirements change in the future, there is some risk that GHG credits available in the future will diminish.	The agreement will front load GHG emission credit transfers to GVS&DD, minimizing credit transfers further into the future when requirement change risk is more significant.



Suite 1800 Landmark 6
1631 Dickson Avenue
Kelowna, British Columbia
V1Y 0B5
T: 250.861.5332

MEMORANDUM

TO: Greater Vancouver Sewerage and Drainage District

FROM: Lawson Lundell LLP

DATE: June 15, 2026

RE: Sewage Diversion and Funding Agreement – Summary of Key Terms

We have assisted the Greater Vancouver Sewerage and Drainage District (the “**District**”) in the drafting and negotiation of a sewage diversion and funding agreement (the “**Agreement**”) between the District and Lulu Island Energy Company Ltd. (the “**User**”). The following is a summary of certain key terms of the Agreement.

1. **General.** The Agreement enables the diversion of sewage from the District’s system to allow the User to recover waste heat for its district energy system. The Agreement amends and restates the “access-only” sewage diversion agreement entered into by the District and the User on June 26, 2025 (the “**Access-Only Agreement**”), primarily to introduce District funding for part of the diversion infrastructure and to make consequential changes required to allow for that funding. The User’s ability to construct the project infrastructure in two phases is preserved.
2. **Risk Allocation and Liability.** In our view, this Agreement does not materially increase the District’s risk relative to the Access-Only Agreement. Indemnities, releases, waivers and insurance obligations allocate nearly all risk to the User, on the basis that the User is being granted the right to connect to and divert sewage from the District’s sewer system without compensation payable to the District. The District is not liable for damage to the User’s infrastructure arising from sewer operations or conditions (e.g., fatbergs, pressure waves, contaminants). The District remains liable for its own negligence unrelated to the User’s sewer connection (e.g., District equipment, such as an excavator, directly damaging the User’s infrastructure).
3. **District Funding.** The District will fund the User’s infrastructure costs up to a maximum of \$10,000,000, if all conditions precedent are satisfied. The User is not required to repay the funding amount, but in some circumstances the User may be required to purchase the District-funded infrastructure for its current depreciated value. Up to \$1,000,000 of the funding can be applied to soft costs, and the balance must be applied only to capital costs. Payments will be made on a reimbursement basis and subject to a 10% deficiencies holdback.
4. **Compensation and Cost-Recovery.** Consistent with the District’s current policy, the User is not required to pay for access to the sewage or waste heat. However, the Agreement provides for full cost recovery for the District, with very limited exceptions. The District will dedicate reasonable internal staff time to cooperate with the User at no cost to the User.

5. **Environmental Attributes.** In exchange for the District funding (and not as compensation for the sewage diversion or waste heat), the District will receive a share of environmental attributes attributed to the User for greenhouse gas reductions (measured in tonnes of CO₂e), as follows: 100% until 10,000 tonnes CO₂e have been allocated to the District; 50% until the cumulative total allocated reaches 20,000 tonnes CO₂e; 25% until the cumulative total allocated reaches 28,500 tonnes CO₂e; and 0% thereafter.
6. **Conditions Precedent.** The project approval condition allows the District to be satisfied with all aspects of the project, including no adverse effects on its sewer system. The mutual conditions precedent allow both parties to be satisfied with the Phase 1 plans and specifications and construction schedule, and the User to have obtained all permits to construct the Phase 1 infrastructure. The deadline for these conditions to be satisfied or waived is May 29, 2027, with up to three one-year extensions exercisable by either party. If a party does not satisfy or waive a condition, the Agreement automatically terminates.
7. **Funding Conditions.** The funding conditions allow the District to be satisfied with a *Utilities Commission Act* exemption for its ownership of funded infrastructure and access rights in respect of such infrastructure, by a date that is 12 months after the project approval and mutual conditions are satisfied or waived. If the District does not satisfy or waive these conditions, the Agreement does not terminate but the District will have no obligation to provide any funding to the User.
8. **Design, Construction, Operation and Maintenance.** The User will design, construct and commission all infrastructure at its cost. The District has approval rights with respect to any District-funded infrastructure plans and specifications and has the right to prior review of plans and specifications for any other infrastructure. The User will operate and maintain all infrastructure on the non-sewer-side of the District's shut-off valves, at its cost. The District will operate and maintain its shut-off valves and sewer-side infrastructure; however, the diversion chamber that forms part of the sewer will be maintained by the User to the extent it relates to its sewage diversion function.
9. **Ownership of Infrastructure.** The District will own all infrastructure on the sewer-side of its shut-off valves and any infrastructure that it funds. The User will own any other project infrastructure. On termination of the Agreement or exercise of an applicable option, any District-owned infrastructure on the non-sewer-side of the District's shut-off valves will be transferred to the User. The User will pay either nominal consideration or the depreciated value of the transferred infrastructure depending on the timing and reason for the transfer.
10. **Diversion and Return of Sewage.** The District is obligated to keep its shut-off valves open unless a suspension event occurs. The District maintains operational control of its shut-off valves and may suspend the diversion and return of sewage in a wide range of circumstances, including emergencies, operational risks, non-compliance by the User, or changes in regulatory status. The District has no obligation to ensure any particular quantity, flow rate, temperature or quality of sewage. The User must return the sewage at an agreed minimum temperature and containing no additives or contaminants that were not present at the point of diversion.
11. **Term and Termination.** The term of the Agreement commenced on June 26, 2026, under the Access-Only Agreement, and will continue until terminated under its terms. Each party has a variety of termination rights that may apply in different circumstances. Notably, the District may terminate the Agreement on at least five years' notice if, in the District's reasonable opinion, it is no longer practicable to allow the sewage diversion (e.g. due to the planned decommissioning, deactivation or relocation of the sewer).

To: Liquid Waste Committee

From: Dana Zheng, Program Manager, Policy, Planning and Analysis, Liquid Waste Services

Date: June 15, 2026 Meeting Date: July 15, 2026

Subject: **Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026**

RECOMMENDATION

THAT the GVS&DD Board:

- a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026*; and
 - b) adopt the *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026*.
-

EXECUTIVE SUMMARY

The *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026* is presented for Board consideration and adoption.

In January 2025, staff received Board direction to update rates annually starting with phased-in rate increases over two years for 2025 to 2026. Now that the phase-in period has concluded, this amendment bylaw proposes new trucked liquid waste (TLW) discharge fees for 2027 that will recover 100% of costs to receive and treat trucked liquid waste discharges. The proposed rates for 2027 will increase by 4% compared with 2026 rates, to bring in a projected revenue of \$7.2 million.

Five-year rate projections are provided to help the industry anticipate future fee changes. These projections have been well-received by stakeholders as they provide predictability for planning purposes.

PURPOSE

To seek GVS&DD Board consideration of trucked liquid waste fees for 2027 and adoption of the *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026*.

BACKGROUND

At the January 31, 2025 Greater Vancouver Sewerage and Drainage District Board meeting, an annual process for updating TLW fees through Board adopted amendment bylaws was established, to maintain cost recovery and correlation with annual GVS&DD budget changes. An initial two-year phased approach for 2025 to 2026 rates was approved. Now that the phase-in period has concluded, the proposed 2027 TLW fees will achieve full cost recovery.

Metro Vancouver receives domestic TLW (e.g., septic tank waste from homes not connected to municipal collection systems) and non-domestic TLW (e.g., restaurant grease trap waste) at the Iona, Annacis, and Northwest Langley wastewater treatment plants. TLW is regulated through *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amending Bylaw 345, 2021* (as amended, Reference 1). Fees for discharging TLW are volumetric with different rates for domestic and non-domestic waste. Waste generated outside of Metro Vancouver (out-of-region waste) is only permitted when generators are facing exceptional, short-term circumstances with no other discharge

options within their own region. Applications for out-of-region TLW discharges are approved only if there are no operational impacts. Out-of-region discharges are subject to a 30 per cent surcharge to recover the additional costs associated with managing these unplanned discharge requests.

PROPOSED BYLAW AMENDMENT

The proposed TLW amendment bylaw (**Attachment 1**) sets 2027 TLW fees for adoption. A revised Schedule A updates TLW fees effective January 1, 2027.

Proposed Five-year Projection of TLW Fees

The proposed TLW fees for 2027, effective January 1, 2027 are shown in Table 1, along with fee estimates for 2028 to 2031 to provide advanced notice to stakeholders. Five-year rate projections have been well-received by industry stakeholders as they provide predictability for planning purposes.

Table 1: Proposed TLW Discharge Fees for 2027¹

TLW Fees (\$/m ³)	Current 2026	Proposed 2027	Estimated 2028	Estimated 2029	Estimated 2030	Estimated 2031
Domestic TLW	\$72	\$75	\$84	\$95	\$108	\$118
Non-domestic TLW	\$117	\$120	\$134	\$152	\$172	\$188

¹Out-of-region generated TLW is subject to a 30% surcharge to capture additional costs from processing out-of-region TLW discharge applications and tracking of out-of-region generated TLW

Neighbouring Jurisdiction Fees

A scan of domestic TLW discharge fees in neighbouring jurisdictions is shown in Table 2. Variations in fees across jurisdictions reflect their unique wastewater treatment costs and operational capacities to receive and treat TLW. Metro Vancouver's proposed 2027 domestic TLW fees are comparable with neighbouring jurisdictions' current domestic TLW fees. Metro Vancouver is the only jurisdiction that receives and treats non-domestic TLW.

Table 2: Proposed Domestic TLW Fee Compared with Neighbouring Jurisdiction TLW Fees

	Abbotsford-Mission (\$/m ³)	Chilliwack (\$/m ³)	Regional District of Nanaimo (\$/m ³)	Proposed 2027 Metro Vancouver (\$/m ³)	Capital Regional District ¹ (\$/m ³)
Domestic TLW fee	\$51.63	\$68.85	\$70.39	\$75	\$109.33

¹Average fee of two TLW receiving facilities within CRD.

Communication with TLW Stakeholders

Extensive engagement with stakeholders was involved with previous significant fee increases and/or policy changes, including an open house with TLW haulers in 2025. Since the proposed 2027 TLW fee increases are minor, communication to stakeholders and municipalities with many residents on septic is planned for after proposed fees are adopted.

ALTERNATIVES

1. THAT the GVS&DD Board:
 - a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026*; and
 - b) adopt the *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026*.
2. THAT the GVS&DD Board receive for information the report dated June 15, 2026, titled "Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026".

FINANCIAL IMPLICATIONS

The proposed TLW fees will provide Metro Vancouver with an estimated \$7.2M in revenue, achieving 100% recovery of operating and capital costs related with TLW for 2027.

CONCLUSION

The proposed 2077 TLW fees presented for Board consideration and adoption will provide full cost recovery for the costs of receiving and treatment TLW, in accordance with the previously Board approved annual fee increases to ensure equity and fairness across all GVS&DD revenue streams.

ATTACHMENT

1. *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026.*

REFERENCES

1. GVS&DD Bylaw No. 345, 2021, *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Bylaw No. 345, 2021* [unofficial consolidation] (28 May 2021).

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GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
BYLAW NO. 403, 2026
A bylaw to amend Greater Vancouver Sewerage and Drainage District
Trucked Liquid Waste Bylaw No. 345, 2021

WHEREAS:

- A. The *Environmental Management Act*, S.B.C. 2003, c. 53 and the *Greater Vancouver Sewerage and Drainage District Act*, S.B.C. 1956, c. 59 authorize the Greater Vancouver Sewerage and Drainage District (the “District”) Board (the “Board”) to make bylaws respecting the direct or indirect discharge of wastes into any sewer or drain connected to a sewage facility operated by the District; and
- B. The Board wishes to amend Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Bylaw No. 345, 2021.

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

Citation

1. The official citation of this bylaw is “Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026”.

Effective Date

2. This bylaw will come into effect on January 1, 2027.

Schedule

3. The following schedule is attached to and forms part of this bylaw:
- Schedule A, Trucked Liquid Waste Discharge Fees.

Amendment of Bylaw

4. “Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Bylaw No. 345, 2021” is amended as follows:
- (a) Schedule A is replaced with Schedule A of this bylaw.

Read a first, second, and third time this _____ day of _____, _____.

Adopted this _____ day of _____, _____.

Mike Hurley, Chair

Dorothy Shermer, Corporate Officer

Schedule A

TRUCKED LIQUID WASTE DISCHARGE FEES

- Effective January 1, 2027, the *discharge fee* applicable to a discharge of *trucked liquid waste* is calculated in accordance with the discharge fee rates set out in Table 1 for *in-region generated waste* and *out-of-region generated waste* respectively.

Table 1: Trucked Liquid Waste Discharge Fees (\$/m³)

Discharge Fee Type		Discharge Fee Rate (\$/m ³)
<i>in-region generated waste</i>	<i>domestic trucked liquid waste</i>	\$75
	<i>non-domestic trucked liquid waste</i>	\$120
<i>out-of-region generated waste</i> (valid <i>out-of-region discharge number</i> required)	<i>domestic trucked liquid waste</i>	\$98
	<i>non-domestic trucked liquid waste</i>	\$156

To: Liquid Waste Committee

From: Maria Edwards, Project Engineer, Policy Planning and Analysis, Liquid Waste Services

Date: June 11, 2026 Meeting Date: July 15, 2026

Subject: **Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026 – Fraser Sewerage Area – Surrey (Hazelmere)**

RECOMMENDATION

THAT the GVS&DD Board:

- a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026*; and
 - b) adopt *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026*.
-

EXECUTIVE SUMMARY

The City of Surrey requested that the FSA boundary be amended to include a 23.7-hectare area at 18115, 18147, and 18253 – 0 Avenue in Surrey (Hazelmere). The proposed development is a 145-lot residential subdivision with a maximum potential build out of 580 units.

A Liquid Waste Services review found the site is about 10 km from the nearest GVS&DD sewer main, dry weather impacts on regional infrastructure would be negligible, and wet weather overflows may increase slightly during major events, but impacts are expected to be manageable as long as growth expansion projects for the Cloverdale Trunk Sewer and Cloverdale Pump Station are completed as contemplated in the currently endorsed 2026-2030 Capital Plan.

As the application, on its own, is consistent with *Metro 2050* sewer service provisions and raises no significant regional technical or financial concerns, staff recommend adoption of the bylaw to amend the Fraser Sewerage Area (FSA) boundary to include the subject properties identified in Schedule A of the attached bylaw (**Attachment 1**).

If the City of Surrey proposes additional FSA amendment applications in the Hazelmere Valley, more in depth utility planning, by both the City and GVS&DD will be required to ensure regional systems can accommodate the additional growth.

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*, by adding the subject properties in Surrey, as identified in Schedule A of the attached bylaw, to the FSA.

BACKGROUND

Sewerage area boundaries are fixed by the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018* and may be amended by bylaw and in accordance with Sections 31 and 32 of the *GVS&DD Act*, typically at a GVS&DD member's request.

**Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402,
2026 – Fraser Sewerage Area – Surrey (Hazelmere)**

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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The sewerage area amendment process begins with the MVRD Board's consideration of whether the subject properties are eligible for regional sewer service under provisions in *Metro 2050*, the regional growth strategy (Reference 2). If eligible, the amendment application is referred to the GVS&DD Board for technical review and consideration for inclusion into the sewerage area.

Following the MVRD Board's adoption of the regional growth strategy amendment, the properties eligible for regional sewer service and the City of Surrey requested that the FSA boundary be amended to include these properties. The proposed development is a 145-lot residential subdivision with a maximum potential build out of 580 units.

METRO 2050 REVIEW

Metro 2050 establishes the framework for regional sewer services and links sewer service eligibility to land use designations and Urban Containment Boundary status, subject to Board consideration.

At its May 29, 2026 regular meeting, the MVRD Board resolved:

THAT the MVRD Board adopt Metro Vancouver Regional District Regional Growth Strategy Amendment Bylaw No. 1393, 2026.

With the adoption of *Metro Vancouver Regional District Regional Growth Strategy Amendment Bylaw No. 1393, 2026* (Reference 2), the Hazelmere properties became eligible for sewer services and the GVS&DD Board may now consider the proposed FSA amendment.

Through discussion with staff, the City has indicated the Rural designated Southeast portion of Surrey as an area of interest for potential land use change and extension of sewer services while acknowledging that the local and regional infrastructure implications of development in this area are not yet fully understood. The City is further exploring future land use, servicing and infrastructure for the area and Metro Vancouver staff will support with data and analysis as needed. If the City of Surrey proposes additional FSA amendments in the area, more in depth utility planning, by both the City and GVS&DD will be required to ensure regional systems can accommodate the additional growth.

GVS&DD TECHNICAL REVIEW

Liquid Waste Services assessed the financial, technical, operational, and service impacts of adding the Hazelmere properties to the FSA. Details of the proposed FSA amendment are shown on Schedule A of the attached amendment bylaw.

The properties are approximately 10 kilometer from the nearest GVS&DD sewer main, the Langley Trunk Sewer. The proposed development, up to 580 units, would generate an estimated flow of about 22 L/s. These flows are expected to be largely attenuated within Surrey's sewer system before reaching GVS&DD infrastructure, resulting in negligible dry weather impacts on the GVS&DD system.

During major wet weather events, additional flows from Hazelmere may slightly increase overflow volumes. However, impacts are expected to be manageable, as long as growth expansion projects for the Cloverdale Trunk Sewer and Cloverdale Pump Station are completed as contemplated in the currently endorsed 2026-2030 Capital Plan. The timing and scope of planned upgrades to the Cloverdale Trunk Sewer and Cloverdale Pump Station are not anticipated to change as a result of the additional flows.

Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026 – Fraser Sewerage Area – Surrey (Hazelmere)

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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Should the GVS&DD Board resolve to include the properties within the FSA, the City of Surrey must then submit a sewer extension request through the Liquid Waste Municipal Portal (Reference 3). The sewer extension application will outline the details and timing of the development and must be approved prior to connection to the sewer system.

If the City of Surrey proposes additional FSA amendment applications in the Hazelmere Valley, more in depth utility planning, by both the City and GVS&DD will be required to ensure regional systems can accommodate the additional growth.

ALTERNATIVES

1. THAT the GVS&DD Board
 - a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026*; and
 - b) adopt the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026*.
2. THAT the GVS&DD Board receive for information the report dated June 10, 2026, titled “*Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026 – Fraser Sewerage Area – Surrey (Hazelmere)*”, and provide alternate direction to staff.

As the application is consistent with *Metro 2050* sewer service provisions and raises no significant regional, technical, or financial concerns, staff recommend Alternative 1.

FINANCIAL IMPLICATIONS

The additional flow from Hazelmere would have a negligible dry weather impact and manageable wet weather effects, with no anticipated changes to the timing or scope of planned Cloverdale Trunk Sewer and Cloverdale Pump Station upgrades. The property owners will be responsible for connection costs to the sewer system.

CONCLUSION

A Liquid Waste Services technical review confirmed the proposed development can be accommodated within the regional sewerage system, with negligible dry weather and manageable wet weather impacts, and with no additional regional infrastructure required beyond the regional projects already planned.

As the application is consistent with *Metro 2050* sewer service provisions and raises no significant regional technical or financial concerns, staff recommend Alternative 1.

If the City of Surrey proposes additional FSA amendment applications in the Hazelmere Valley, more in depth utility planning, by both the City and GVS&DD will be required to ensure regional systems can accommodate the additional growth.

ATTACHMENT

1. *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026*.

REFERENCES

1. Metro Vancouver. (2022). Metro 2050 Regional Growth Strategy.
<https://metrovancover.org/services/regional-planning/Documents/metro-2050.pdf>

**Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402,
2026 – Fraser Sewerage Area – Surrey (Hazelmere)**

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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2. Metro Vancouver. (2026, May 21). *Regional Growth Strategy Amendment Bylaw No. 1393, 2026 – City of Surrey (Hazelmere)* [Staff report to MVRD Board meeting on May 29, 2026].
<https://metrovancover.org/boards/GVRD/RD-2026-05-29-AGE.pdf#page=479>
3. Metro Vancouver. (2026). *Liquid Waste Municipal Portal*.
<https://metrovancover.org/services/liquid-waste/liquid-waste-municipal-portal>

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**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
BYLAW NO. 402, 2026
A bylaw to amend Greater Vancouver Sewerage and Drainage District Sewerage and
Drainage Areas Boundaries Bylaw No. 310, 2018**

WHEREAS:

- A. The Board of the Greater Vancouver Sewerage and Drainage District ("GVS&DD") 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:

Citation

1. The official citation of this bylaw is "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026".

Schedule

2. The following schedule is attached to and forms part of this bylaw:
- Schedule A, Location Plan.

Amendment of Bylaw

3. "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018" is amended as follows:

- (a) amending the Fraser Sewerage Area to include the subject properties, as listed in the table below:

PID	Legal Description	Address
007-245-653	LOT 3, SECTION 5, TOWNSHIP 7, NEW WESTMINSTER DISTRICT, PLAN 35804	18147 0 AVE SURREY V3Z 9R9
007-150-199	LOT 4, SECTION 5, TOWNSHIP 7, NEW WESTMINSTER DISTRICT, PLAN 43858	18253 0 AVE SURREY V3Z 9R9

as shown in Schedule A of this bylaw; and

- (b) amending the Fraser Sewerage Area to include portions of the subject properties, as listed in the table below:

PID	Legal Description	Address
013-221-540	PARCEL "B" (REFERENCE PLAN 2664), SOUTH EAST QUARTER, SECTION 5, TOWNSHIP 7, EXCEPT FIRSTLY: THE SOUTH 33 FEET, SECONDLY: PART SUBDIVIDED BY PLAN 35804, THIRDLY: PART SUBDIVIDED BY PLAN 43858, FOURTHLY: PARTS DEDICATED ROAD ON PLAN BCP7629 NEW WESTMINSTER DISTRICT	18115 0 AVE SURREY V3Z 9R9

as shown in Schedule A of this bylaw.

Read a first, second, and third time this _____ day of _____, _____.

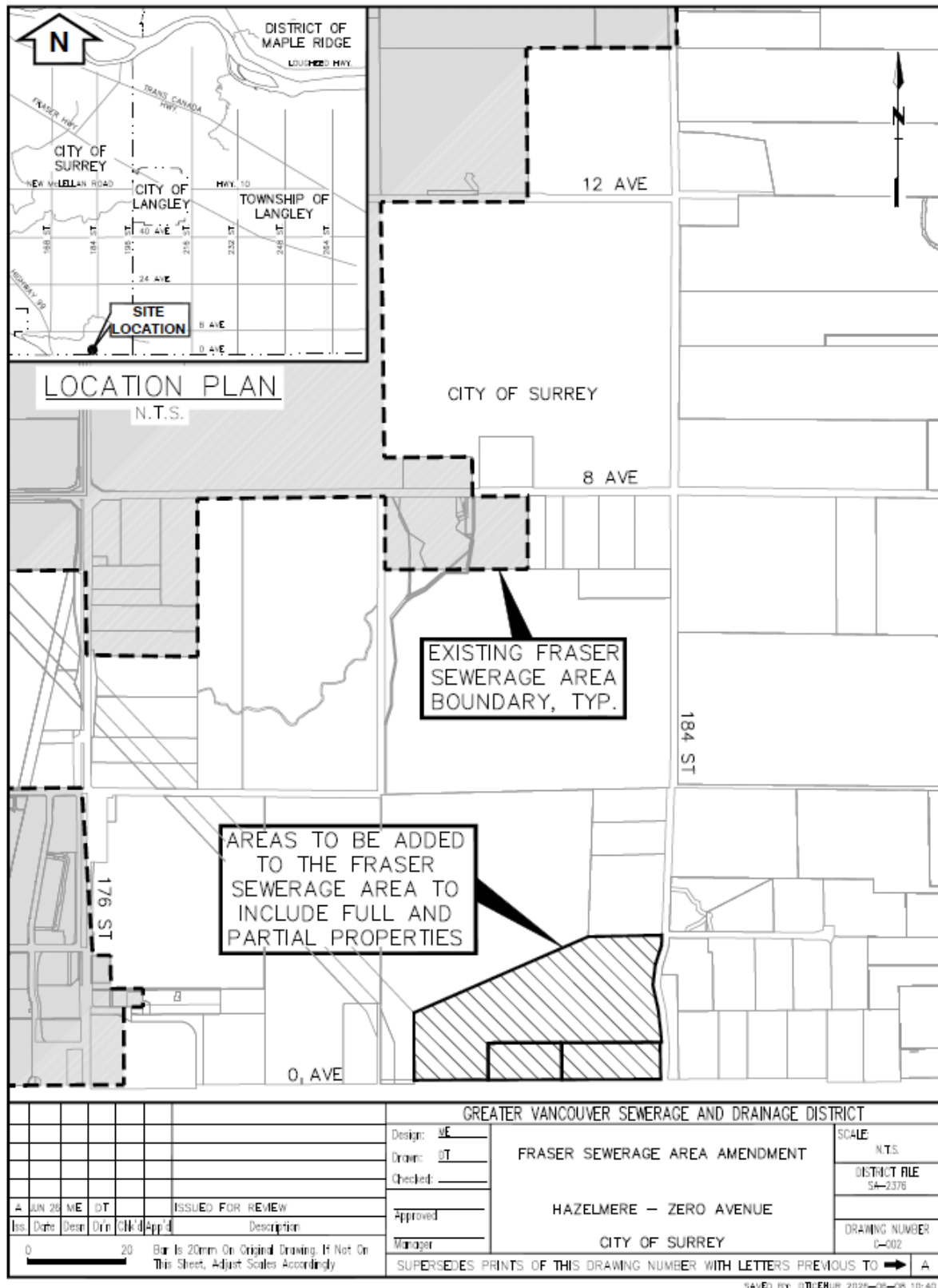
Adopted this _____ day of _____, _____.

Mike Hurley, Board Chair

Dorothy Shermer, Corporate Officer

Schedule A

Location Plan



Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries
Amendment Bylaw No. 402, 2026

To: Liquid Waste Committee

From: Maria Edwards, Project Engineer, Policy Planning and Analysis, Liquid Waste Services

Date: June 11, 2026 Meeting Date: July 15, 2026

Subject: **Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026 – Fraser Sewerage Area – Maple Ridge (North 256 Street Industrial Lands)**

RECOMMENDATION

THAT the GVS&DD Board:

- a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026*; and
 - b) adopt *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026*.
-

EXECUTIVE SUMMARY

The City of Maple Ridge requested that the Fraser Sewerage Area (FSA) boundary be amended to include the properties in the North 256 Street Industrial Lands Area Plan that are not already within the FSA. The proposed development scenario is a light industrial hub consistent with the Area Plan.

A technical review by Liquid Waste Services confirmed that the proposed development can be accommodated within the regional sewerage system, with negligible dry weather impacts, manageable wet weather impacts, and no need for additional regional infrastructure beyond what is already planned.

As the application is consistent with *Metro 2050* sewer service provisions and presents no significant regional technical or financial concerns, staff recommend adoption of the bylaw to amend the FSA boundary to include the subject properties identified in Schedule A of the attached bylaw (**Attachment 1**).

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*, by adding the subject properties in Maple Ridge, as shown on Schedule A of the attached bylaw, to the FSA.

BACKGROUND

Sewerage area boundaries are fixed by the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018* and may be amended by bylaw and in accordance with Sections 31 and 32 of the *GVS&DD Act*, typically at a GVS&DD member's request.

The sewerage area amendment process begins with the MVRD Board's consideration of whether the subject properties are eligible for regional sewer service under provisions in *Metro 2050*, the regional growth strategy (Reference 1). If eligible, the amendment application is referred to the GVS&DD Board for technical review and consideration for inclusion into the sewerage area.

**Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401,
2026 – Fraser Sewerage Area – Maple Ridge (North 256 Street Industrial Lands)**

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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Following the MVRD Board's adoption of the regional growth strategy amendment, the properties became eligible for sewer service and the City of Maple Ridge requested that the FSA boundary be amended to include the properties in the Area Plan that are not already within the FSA. The proposed development scenario is a light industrial hub consistent with the North 256 Street Industrial Lands Area Plan.

METRO 2050 REVIEW

Metro 2050 establishes the framework for regional sewer services and links sewer service eligibility to land use designations and Urban Containment Boundary status, subject to Board consideration.

At its May 29, 2026 regular meeting, the MVRD Board resolved:

THAT the MVRD Board:

- a) receive for information the comments from affected local governments, local First Nations, and regional agencies as presented in the report dated May 20, 2026, titled "Regional Growth Strategy Amendment Bylaw No. 1451, 2026 – City of Maple Ridge (North 256 Street Industrial Lands Area Plan)"; and*
- b) adopt Metro Vancouver Regional District Regional Growth Strategy Amendment Bylaw No. 1451, 2026; and*
- c) accept the City of Maple Ridge's amended and corresponding Regional Context Statement.*

With the adoption of *Metro Vancouver Regional District Regional Growth Strategy Amendment Bylaw No. 1451, 2026* (Reference 2), the North 256 Street Industrial Lands became eligible for sewer services and the GVS&DD Board may now consider the proposed FSA amendment.

GVS&DD TECHNICAL REVIEW

Liquid Waste Services assessed the financial, technical, operational, and service impacts of adding the 256th Street Industrial Area properties to the FSA. Details of the proposed FSA amendment are shown on Schedule A of the attached amendment bylaw.

Existing wastewater flows from the 256th Street industrial lands are currently conveyed to the Annacis Island Wastewater Treatment Plant via the Katzie Pump Station. With the anticipated completion of Stage 1 of the Northwest Langley Wastewater Treatment Plant in the 2030s, flows from Maple Ridge are expected to be redirected to the Northwest Langley Wastewater Treatment Plant through the Golden Ears Pump Station.

Under dry weather conditions, the projected increase in flows from the subject properties can be accommodated within existing regional infrastructure prior to the commissioning of the Golden Ears Pump Station and Northwest Langley Wastewater Treatment Plant.

During major wet weather events, prior to the commissioning of that infrastructure, additional flows from the subject properties are expected to increase the frequency of use of the Golden Ears Storage Tank and may elevate the risk of overflows. Following commissioning of the Golden Ears Pump Station, the projected wet weather flows from the subject properties would represent approximately 10% of Golden Ears Pump Station capacity. With this increased pumping capacity, together with the use of the Golden Ears Storage Tank, the risk of overflows associated with the additional flows is expected to be mitigated.

Should the GVS&DD Board resolve to include the properties within the FSA, the City of Maple Ridge must then submit a sewer extension request through the Liquid Waste Municipal Portal (Reference 3).

Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026 – Fraser Sewerage Area – Maple Ridge (North 256 Street Industrial Lands)

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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The sewer extension application will outline the details and timing of the development and must be approved prior to connection to the sewer system.

ALTERNATIVES

1. THAT the GVS&DD Board
 - a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026*; and
 - b) adopt the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026*.
2. THAT the GVS&DD Board receive for information the report dated June 11, 2026, titled “Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026 – Fraser Sewerage Area – Maple Ridge (North 256 Street Industrial Lands)”, and provide alternate direction to staff.

As the application is consistent with *Metro 2050* sewer service provisions and raises no significant regional, technical, or financial concerns, staff recommend Alternative 1.

FINANCIAL IMPLICATIONS

The additional flow from the subject properties would have a negligible dry weather impact and manageable wet weather effects, with no anticipated changes to the timing or scope of planned regional infrastructure associated with the Golden Ears Pump Station and Northwest Langley Wastewater Treatment Plant. The property owners will be responsible for connection costs to the sewer system.

CONCLUSION

A Liquid Waste Services technical review confirmed the proposed development can be accommodated within the regional sewerage system, with negligible dry weather and manageable wet weather impacts, and with no additional regional infrastructure required beyond the regional projects already planned.

As the application is consistent with *Metro 2050* sewer service provisions and raises no significant regional, technical, or financial concerns, staff recommend Alternative 1.

ATTACHMENT

1. *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026*.

REFERENCES

1. Metro Vancouver. (2022). *Metro 2050 Regional Growth Strategy*.
<https://metrovancover.org/services/regional-planning/Documents/metro-2050.pdf>
2. Metro Vancouver. (2026, May 20). *Regional Growth Strategy Amendment Bylaw No. 1451, 2026 – City of Maple Ridge (North 256 Street Industrial Lands Area Plan)* [Staff report to MVRD Board meeting on May 29, 2026].
<https://metrovancover.org/boards/GVRD/RD-2026-05-29-AGE.pdf#page=533>
3. Metro Vancouver. (2026). *Liquid waste municipal portal*. <https://metrovancover.org/services/liquid-waste/liquid-waste-municipal-portal>

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
BYLAW NO. 401, 2026
A bylaw to amend Greater Vancouver Sewerage and Drainage District Sewerage and
Drainage Areas Boundaries Bylaw No. 310, 2018**

WHEREAS:

- A. The Board of the Greater Vancouver Sewerage and Drainage District (“GVS&DD”) 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:

Citation

1. The official citation of this bylaw is “Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026”.

Schedule

2. The following schedule is attached to and forms part of this bylaw:
- Schedule A, Location Plan.

Amendment of Bylaw

3. “Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018” is amended as follows:

- (a) amending the Fraser Sewerage Area to include the subject properties, as listed in the table below:

PID	Legal Description
023-313-838	LOT 2, PLAN LMP26779, SECTION 25, TOWNSHIP 12, GROUP 1, NEW WESTMINSTER LAND DISTRICT
002-058-146	LOT 2, PLAN NWP70124, PART SW1/4, SECTION 25, TOWNSHIP 12, GROUP 1, NEW WESTMINSTER LAND DISTRICT
002-058-154	LOT 3, PLAN NWP70124, PART SW1/4, SECTION 25, TOWNSHIP 12, NEW WESTMINSTER LAND DISTRICT

PIN	Legal Description
36065361	PART NE4 SECTION 32 TP3, RGE4

as shown in Schedule A of this bylaw; and

- (b) amending the Fraser Sewerage Area to include portions of the subject properties, as listed in the table below:

PID	Legal Description
018-603-785	LOT 1, PLAN LMP13975, DISTRICT LOT 5326, GROUP 1, NEW WESTMINSTER LAND DISTRICT
013-301-764	PARCEL A, PART SW1/4, SECTION 25, TOWNSHIP 12, NEW WESTMINSTER LAND DISTRICT, REF PL 3015; EXC PCL 1 REF PL 17316
013-301-802	PARCEL 1, PART SW1/4, SECTION 25, TOWNSHIP 12, NEW WESTMINSTER LAND DISTRICT, REF PL 17316; OF PCL A REF PL 3015
023-313-820	LOT 1, PLAN LMP26779, SECTION 25, TOWNSHIP 12, GROUP 1, NEW WESTMINSTER LAND DISTRICT
000-572-667	LOT 4, PLAN NWP41107, PART SW1/4, SECTION 25, TOWNSHIP 12, GROUP 1, NEW WESTMINSTER LAND DISTRICT
002-058-120	LOT 1, PLAN NWP70124, PART SW1/4, SECTION 25, TOWNSHIP 12, GROUP 1, NEW WESTMINSTER LAND DISTRICT
023-213-612	LOT 22, PLAN LMP25391, SECTION 26, TOWNSHIP 12, GROUP 1, NEW WESTMINSTER LAND DISTRICT
028-325-249	LOT A, PLAN BCP45609, SECTION 26, TOWNSHIP 12, NEW WESTMINSTER LAND DISTRICT
028-325-354	LOT A, PLAN BCP45610, SECTION 26, TOWNSHIP 12, NEW WESTMINSTER LAND DISTRICT

PIN	Legal Description
6972380	BLOCK A, PART NW1/4, SECTION 25, TOWNSHIP 12, GROUP 1, NEW WESTMINSTER LAND DISTRICT, LEASE/PERMIT/LICENCE # 235726
7002230	SECTION 5 TP4, RGE4

as shown in Schedule A of this bylaw; and

- (c) amending the Fraser Sewerage Area to remove the subject properties, as listed in the table below:

PIN	Legal Description
6703521	PART NE1/4, SECTION 25, TOWNSHIP 12, GROUP 1, NEW WESTMINSTER LAND DISTRICT
7006041	E2 SECTION 36 TP 12

as shown in Schedule A of this bylaw; and

- (d) amending the Fraser Sewerage Area to remove portions of the subject properties, as listed in the table below:

PID	Legal Description
018-603-785	LOT 1, PLAN LMP13975, DISTRICT LOT 5326, GROUP 1, NEW WESTMINSTER LAND DISTRICT

PIN	Legal Description
6972380	BLOCK A, PART NW1/4, SECTION 25, TOWNSHIP 12, GROUP 1, NEW WESTMINSTER LAND DISTRICT, LEASE/PERMIT/LICENCE # 235726

as shown in Schedule A of this Bylaw.

Read a first, second, and third time this _____ day of _____, _____.

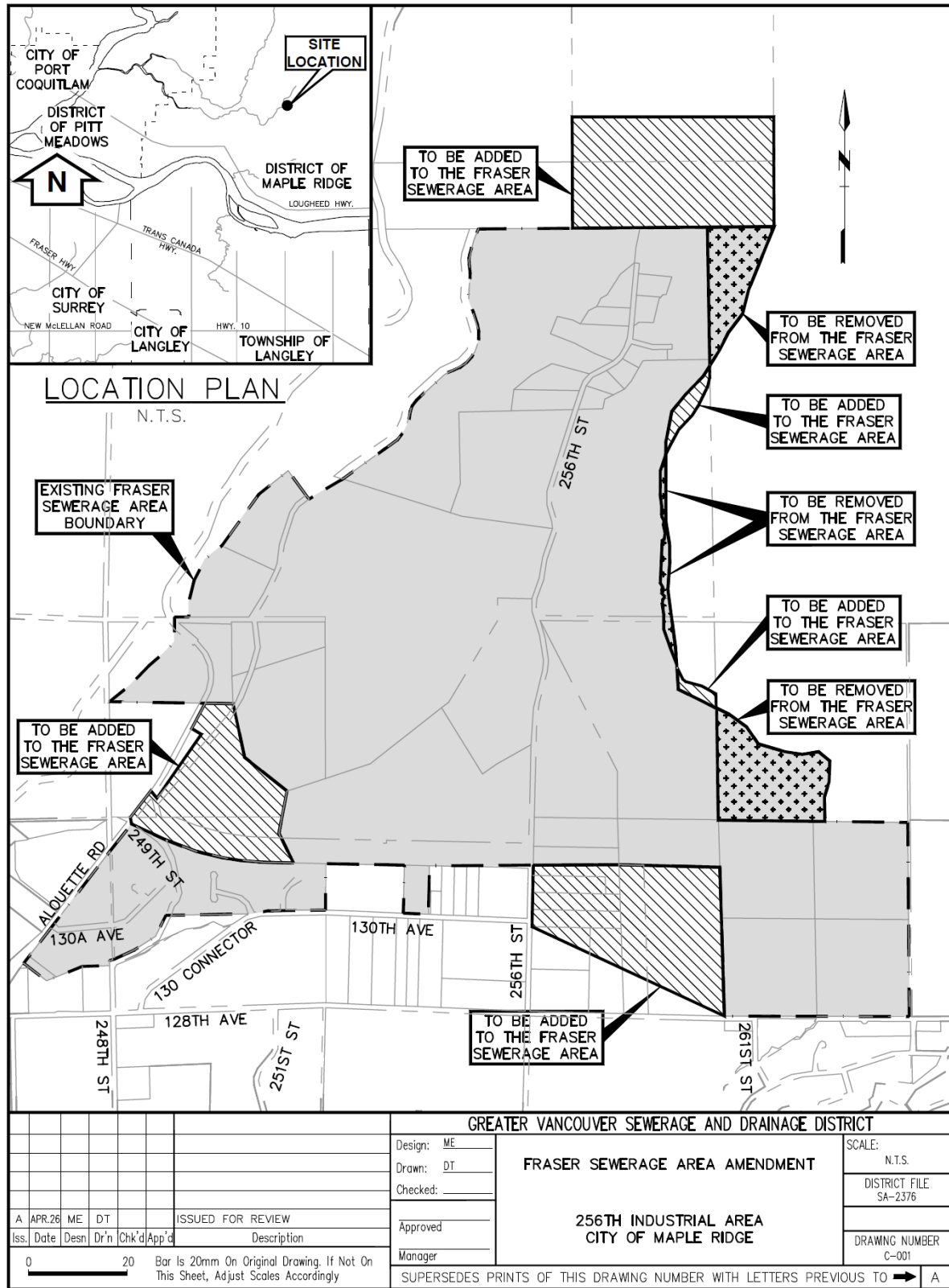
Adopted this _____ day of _____, _____.

Mike Hurley, Board Chair

Dorothy Shermer, Corporate Officer

Schedule A

Location Plan



Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries
Amendment Bylaw No. 401, 2026

To: Liquid Waste Committee

From: Joan Liu, Division Manager, Liquid Waste Services EDC Collection Systems
George Kavouras, Director, Procurement, Procurement & Real Estate Services

Date: May 29, 2026 Meeting Date: July 15, 2026

Subject: **Award of RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank**

RECOMMENDATION

THAT the GVS&DD Board:

- a) approve the award of RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank, in the amount of up to \$28,335,710.00 (exclusive of taxes) to Jacob Bros. Construction Inc., subject to final review by the Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

Jacob Bros. Construction Inc.'s proposal ranked highest overall, provided the lowest cost and the highest technical score, and demonstrated best value overall for Metro Vancouver.

The work to be provided under RFP 25-038 involves realigning a section of the existing North Surrey Interceptor to enable construction of the future North Surrey Storage Tank, which will reduce sanitary sewer overflows into the Fraser River during wet weather and enable sewer inspections and maintenance during low flow periods. More specifically, this work includes preload activities; installation of 190 metres of 1200 millimetre (mm) diameter reinforced concrete pipe supported on piles; implementation of bypass systems; tie-ins and decommissioning of the existing North Surrey Interceptor; and provisional improvements along 115 Avenue and 136A Street.

RFP 25-038 was issued February 23, 2026. RFP 25-038 was advertised publicly and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 25-038 evaluation team has considered the proposals received, and on that basis recommends that the GVS&DD Board award RFP 25-038 to Jacob Bros. Construction Inc.

PURPOSE

Pursuant to the *GVS&DD Officers and Delegation Bylaw No. 284, 2014* (Bylaw) and *Board Policy No. FN-031*, procurement contracts which exceed a value of \$10 million require the approval of the GVS&DD Board.

**Award of RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor
Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank**

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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BACKGROUND

The North Surrey Interceptor is a large sewer that conveys wastewater from communities in Maple Ridge and North Surrey to the Annacis Island Wastewater Treatment Plant. Liquid Waste Services has established a program to upgrade the entire North Surrey Interceptor to accommodate population growth and climate change, and to prevent sewer overflows into the Fraser River during wet weather. A key component of this program is the construction of a new sanitary sewer overflow storage tank facility – the North Surrey Storage Tank – near 136A Street and King Road in Surrey.

The existing North Surrey Interceptor often surcharges and overflows during heavy rainfall due to its deteriorating condition and excessive inflow and infiltration into upstream sanitary sewer collection systems. Liquid Waste Services plans to construct the North Surrey Storage Tank to address these issues. Construction of the North Surrey Storage Tank requires relocation of the existing North Surrey Interceptor, as it is currently located within the proposed tank footprint. Once completed, the North Surrey Storage Tank and the relocated North Surrey Interceptor will reduce overflows into the Fraser River and enable dewatering of the sewer during low-flow periods, facilitating ongoing inspection and maintenance.

PROCUREMENT SUMMARY

RFP 25-038 Submissions

Proponents	Pricing (excluding taxes)
Clearway Construction Inc.	\$ 37,569,067.95
BD HALL CONSTRUCTORS CORP	\$ 33,206,924.00
Drake Excavating (2016) Ltd.	\$ 30,697,575.00
Jacob Bros. Construction Inc.	\$ 28,335,710.00

Metro Vancouver received four proposals. All proposals submitted by the Proponents were in compliance with the submission requirements. The compliant proposals were evaluated against Technical requirements (60%) and Commercial requirements (40%). Technical requirements were evaluated by staff and subject matter experts from the Engineering Design and Construction Division in Liquid Waste Services while Commercial requirements were evaluated by Procurement staff.

After a comprehensive and detailed evaluation of the compliant proposals, the evaluation team concluded that the proposal submitted by Jacob Bros. Construction Inc. ranked highest overall, provided the lowest cost and the highest technical score, and demonstrated best value overall for Metro Vancouver. The submission demonstrated a highly experienced team with a strong track record of delivering projects of similar scope and complexity. The proposal showed a clear understanding of the technical challenges and associated risks, along with well-defined and appropriate mitigation strategies that carefully considered both schedule and cost. In addition, Jacob Bros. submitted the most competitive bid price, further supporting their position as the proponent offering the best overall value to Metro Vancouver.

The evaluation team determined the submission was acceptable and proposed no items for negotiation.

Award of RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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ALTERNATIVES

1. THAT the GVS&DD Board:
 - a) approve the award of RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank, in the amount of up to \$28,335,710.00 (exclusive of taxes) to Jacob Bros. Construction Inc., subject to final review by the Commissioner/Chief Administrative Officer; and
 - b) authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
2. THAT the GVS&DD receive the report dated May 29, 2026 titled "Award of RFP 25-038 for Construction Services for the North Surrey Interceptor for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank" for information.

FINANCIAL IMPLICATIONS

An approved budget of \$184,700,000 is currently available for the design and construction of the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank Project. \$25,114,140.43 has been spent and committed to date (June 3, 2026). There is sufficient budget available to accommodate the award of Award of RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank for \$28,335,710.00 (exclusive of taxes).

OTHER IMPLICATIONS

The relocation work included in RFP 25-038 is required to enable construction of the North Surrey Storage Tank, which is part of Metro Vancouver's broader strategy to reduce sanitary sewer overflows into the Fraser River during wet weather and facilitate inspection and maintenance of the sewer system during low flow periods. Postponing this work would pose an increased risk of sewer spills into the environment.

CONCLUSION

It is recommended that GVS&DD Board approve the award of RFP 25-038 for Construction Services for the North Surrey Interceptor for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank, in the amount of up to \$28,335,710.00 (exclusive of taxes) to Jacob Bros. Construction Inc. and authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.

85543585

To: GVS&DD Board of Directors

From: George Kavouras, Director, Procurement, Procurement & Real Estate Services
Bob Cheng, Director, Major Projects, Project Delivery

Date: May 26, 2026 Meeting Date: July 15, 2026

Subject: **Award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works**

RECOMMENDATION

THAT the GVS&DD Board:

- a) approve the award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works, in the amount of up to \$16,594,975.60 (exclusive of taxes) to Stantec Consulting Ltd. for a term of five years, subject to final review by the Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

Stantec Consulting Ltd.'s proposal ranked highest overall, had the highest technical score, and demonstrated best value overall for Metro Vancouver.

Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works are required to increase the service population from 1.25 million to 1.5 million residents. Construction management services are required to manage five (5) remaining work packages.

RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works was issued on December 19, 2025 to three (3) prequalified respondents of RFQ 25-246 – Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Expansion and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 25-596 evaluation team have reviewed the proposals received, and on that basis recommend that the GVS&DD award RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works to Stantec Consulting Ltd.

PURPOSE

Pursuant to the *GVS&DD Officers and Delegation Bylaw No. 284* (Bylaw amended in 2024 by *GVS&DD Bylaw No. 373*) and Board Policy No. FN-031, procurement contracts which exceed a value of \$10 million require the approval of the GVS&DD Board.

BACKGROUND

The Annacis Island Wastewater Treatment Plant Stage 5 Expansion comprises of a series of upgrades to increase both flow and treatment load capacity to accommodate projected regional growth that will require an increase in treatment capacity from 1.25 million to 1.5 million residents. Phase 2B is the last remaining phase of Annacis Island Wastewater Treatment Plant Stage 5 Expansion and it includes five (5) work packages, consisting of Solids Contact Tank upgrades, Ground Improvements, Trickling Filters

**Award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5
Phase 2B Completion Works**

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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5&6 and Trickling Filter Pump Station 2, Centrifuge Replacement, and a new Maintenance Workshop. The Phase 2B work packages are anticipated to be constructed over different time intervals between 2026 and 2031.

PROCUREMENT SUMMARY

RFQ 25-246 was issued on July 17, 2025 to prequalify proponents to participate in RFP 25-595. Four proponents responded to RFQ No. 25-246; of those, three were shortlisted and invited to respond to RFP 25-595.

RFP 25-595 Submissions

Proponents	Pricing (excluding taxes)
WSP Canada Inc.	\$16,966,011.00
Stantec Consulting Ltd.	\$15,796,872.60
Jacobs Consultancy Canada Inc.	\$13,801,336.24

Metro Vancouver received three proposals. All proposals submitted by the Proponents were in compliance with the submission requirements. The compliant proposals were evaluated against Technical requirements (65% weighting) and Commercial requirements (35% weighting). Technical requirements were evaluated by Project Delivery and Commercial requirements were evaluated by Procurement.

After a comprehensive and detailed evaluation of the compliant proposals, the evaluation team concluded that the proposal submitted by Stantec Consultant Ltd. ranked highest overall, had the highest technical score, and demonstrated best value overall for Metro Vancouver; more specifically, the strengths of Stantec Consulting Ltd.'s proposal included clearly defined scope of work and well-articulated execution strategy, highly qualified and experienced personnel, strong understanding of construction challenges in a wastewater treatment plant setting, robust risk management and accountability measures and outstanding reference checks and past performance including on recent Metro Vancouver projects.

Negotiations with Stantec Consulting Ltd. were completed on April 28, 2026 and the terms of the contract were agreed to and finalized, with a contract value of \$16,594,975.60. This is an increase of \$798,103.00 due to an estimated fee escalation. As per the RFP document, all fees are held for the original two-year term of the contract with the additional years allowing for fee escalation based on future Consumer Price Index adjustments. Actual fee escalation rates will be based on the published Consumer Price Index rates following the initial two-year period.

ALTERNATIVES

1. THAT the GVS&DD Board:

- a) approve the award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works, in the amount of up to \$16,594,975.60 (exclusive of taxes) to Stantec Consulting Ltd. for a term of five years, subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

**Award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5
Phase 2B Completion Works**

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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2. That the GVS&DD receive the report dated May 26, 2026, titled "Award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works" for information.

FINANCIAL IMPLICATIONS

A total approved budget of \$1.34 billion is currently available for design and construction of the Annacis Island Wastewater Treatment Plant Stage 5 Expansion, and there are sufficient funds remaining to accommodate the award of RFP 25-596.

CONCLUSION

It is recommended that the GVS&DD Board approve the award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works, in the amount of up to \$16,594,975.60 (exclusive of taxes) to Stantec Consulting Ltd. and authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.

80172152

To: Liquid Waste Committee

From: George Kavouras, Director, Procurement, Procurement & Real Estate Services
Bob Cheng, Director, Major Projects, Project Delivery

Date: June 26, 2026 Meeting Date: July 15, 2026

Subject: **Award of Construction and Post-Construction Engineering Services for RFP 20-358
Engineering Services for Annacis Island Wastewater Treatment Plant Stage 5
Expansion Trickling Filter Pump Station and Trickling Filters**

RECOMMENDATION

THAT the GVS&DD Board:

- a) approve the award of Construction and Post-Construction Engineering Services for RFP 20-358 Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters, in the amount of up to \$29,952,375 (exclusive of taxes) to Brown and Caldwell Consultants Canada Ltd. for a term of five (5) years, subject to final review by the Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

RFP 20-358 was awarded to the highest-ranked and best overall proponent, Brown and Caldwell, in January 2022 following a public procurement process. The RFP included Preliminary and Detailed Design Services, as well as Construction and Post-Construction Engineering Services. The initial award covered only the Preliminary and Detailed Design. As outlined in the RFP, the subsequent Construction and Post-Construction Services were to be negotiated upon successful completion of the design phase and brought forward to the GVS&DD Board for approval. Negotiations have now concluded. It is recommended that the GVS&DD Board award the Construction and Post-Construction Engineering Services to Brown and Caldwell in the amount of \$29,952,375 (exclusive of taxes). The Annacis Island Wastewater Treatment Plant Stage 5 Expansion will increase the capacity of the plant to accommodate regional growth.

PURPOSE

Pursuant to the GVS&DD Officers and Delegation Bylaw No. 284 (Bylaw amended in 2024 by GVS&DD Bylaw No. 373) and Board Policy No. FN-031, procurement contracts which exceed a value of \$10 million require the approval of the GVS&DD Board.

BACKGROUND

Metro Vancouver issued RFP 20-358 Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters on November 26, 2020 to four (4) prequalified proponents. RFP 20-358 requested consulting engineering services to complete Preliminary, Detail Design, Construction, and Post-Construction Engineering Services for the expansion work consisting of trickling filters, a trickling filter pump station, centrifuges, and a maintenance workshop. Brown and Caldwell's proposal ranked highest overall and demonstrated best value for Metro Vancouver. The GVS&DD Board approved the award of Preliminary and Detailed Design Services to Brown and Caldwell at the Board Meeting held on November 26, 2021 and the contract was executed on January 25, 2022.

85379170

Award of Construction and Post-Construction Engineering Services for RFP 20-358 Engineering Services for Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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Brown and Caldwell have been diligent in completing Preliminary and Detail Design Services and supported the Corporation with sound technical recommendations. The first construction package for ground improvements for the new trickling filters was tendered by Metro Vancouver in spring 2026. Construction Engineering Services are required to support the upcoming ground improvements installation and subsequent construction projects.

EVALUATION SUMMARY

Negotiations with Brown and Caldwell for Construction and Post-Construction Engineering Services began in spring 2026. Brown and Caldwell's original proposal for Construction and Post-Construction Engineering Services was in the amount of up to \$25,610,298 (exclusive of taxes, 2021 dollars). The 2026 negotiated proposal for Construction and Post-Construction Engineering Services is in the amount of up to \$29,952,375 (exclusive of taxes). This is an increase of \$4,342,077 which includes Consumer Price Index adjustments for inflation to current year 2026, which is permitted under the terms of RFP 20-358. The scope of work was also updated to incorporate new and revised positions necessary to provide required oversight and to support additional work identified through the detailed design phase.

The recommendation to award Construction and Post-Construction Engineering Services to Brown and Caldwell ensures continuity during the construction and closeout phases of the project. Benefits of continuity include reduced misinterpretation of specifications and drawings, efficient resolution of requests for information and design clarifications, better risk management, reduced disputes over design intent and liability, and efficient delivery of record drawings and Operation & Maintenance documentation. This arrangement also aligns with the obligations of the Engineer of Record as defined by Engineers and Geoscientists British Columbia, as such it provides the best value to Metro Vancouver.

ALTERNATIVES

1. THAT the GVS&DD Board:
 - a) approve the award of Construction and Post-Construction Engineering Services for RFP 20-358 Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters, in the amount of up to \$29,952,375.00 (exclusive of taxes) to Brown and Caldwell Consultants Canada Ltd. for a term of five (5) years, subject to final review by the Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
2. THAT the GVS&DD receive the report dated June 26, 2026 titled "Award of Construction and Post-Construction Engineering Services for RFP 20-358 Engineering Services for Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters" for information.

FINANCIAL IMPLICATIONS

A total approved budget of \$1.34 billion is currently available for design and construction of the Annacis Island Wastewater Treatment Plant Stage 5 Expansion, and there are sufficient funds remaining to accommodate the award of RFP 20-358 Construction and Post-Construction Engineering Services.

**Award of Construction and Post-Construction Engineering Services for RFP 20-358 Engineering Services for Annacis Island
Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters**

Liquid Waste Committee Regular Meeting Date: July 15, 2026

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CONCLUSION

It is recommended that GVS&DD Board approve the award of Construction and Post-Construction Engineering Services for RFP 20-358 Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters, in the amount of up to \$29,952,375 (exclusive of taxes) to Brown and Caldwell and authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.

85379170

To: Liquid Waste Committee

From: Peter Navratil, General Manager, Liquid Waste Services

Date: July 7, 2026

Meeting Date: July 15, 2026

Subject: **Manager's Report**

RECOMMENDATION

THAT the Liquid Waste Committee receive for information the report dated July 7, 2026, titled "Manager's Report".

1. Update on Liquid Waste Notices of Bylaw Violation

In May 2024, the GVS&DD Board adopted the *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw No. 378, 2024* ("the Bylaw"). The Bylaw allows Board-appointed officers to enforce certain contraventions of Metro Vancouver's liquid waste and solid waste bylaws by issuing notices of bylaw violation ("NBVs"). Bylaw penalties range up to \$500 per day per contravention.

Officers have the discretion to issue NBVs, and typically only do so for repeated contraventions and where there is a strong need to send a message of deterrence.

Since the Board adopted the Bylaw, officers have issued 23 NBVs for liquid waste bylaw contraventions, summarized below, most of which have been paid in a timely manner. Outstanding NBVs may be pursued through provincial small claims court.

Bylaw	Contraventions (# per category)	# NBVs	# Paid	# Disputed	# Outstanding
Sewer Use	Failure to report (1) Violation of permit limit - FOG (7) Violation of permit limit – metals (3) Violation of permit limit – pH (1)	12	12	0	0
Fermentation Operations	Failure to pay fees (6)	6	0	0	6
Food Sector Grease Interceptor	Failure to provide records (2) Failure to install grease interceptor (2) Failure to maintain grease interceptor (1)	5	5	0	0

Additional enforcement information for all three of Metro Vancouver's environmental regulatory programs can be found at metrovancover.org (search "compliance and enforcement").

2. 2026 Financial Performance Update

A corporation-wide Financial Performance Update report is being received by Performance and Audit Committee this same month of July and will be made available to the Liquid Waste Committee in September. Liquid Waste Services operational expenses in 2026 are at or below budgeted levels, due to a combination of project and scheduled maintenance delays and deferrals, and due to reduced expenditures from staff position vacancies (which take time to hire new staff for). Cost increases are also occurring in some areas, such as higher diesel costs for managing residuals, but the cost reductions above are larger than those increases.

3. Iona Bypass – Update

A service disruption at the Iona Wastewater Treatment Plant on July 2 was caused by a combination of heavy rainfall following an unusually dry spring. The storm event flushed a significant accumulation of gravel, sand, silt, and other debris through Vancouver's combined sewer system and into the treatment plant. Although the facility's six bar screens are designed to remove this material, the volume of debris exceeded their capacity, resulting in all six screens becoming overwhelmed simultaneously—an unprecedented occurrence for the plant. During the event, approximately 20 tonnes of gravel were removed from the system over a two-hour period before the screening process became inoperable. While individual screens can occasionally experience operational challenges during intense rainfall events, this marked the first instance in which all six screens were taken out of service at the same time.

To manage the situation, Metro Vancouver redirected wastewater to its containment and diversion facilities while crews worked to clear the accumulated debris and restore the screening equipment. When additional capacity was required, wastewater was discharged through the plant's 7-kilometre offshore deep-sea outfall between approximately 3:41 p.m. and 6:17 p.m. Based on Metro Vancouver's modelling, the resulting plume remained within deep ocean waters and was not expected to reach shorelines or recreational areas. Regulatory agencies, public health authorities, First Nations, municipalities, and the public were notified in accordance with established notification protocols. Metro Vancouver is undertaking a comprehensive investigation and will submit a report to regulators within 30 days to identify the cause of the incident, evaluate corrective actions, and determine whether further measures are required to reduce the likelihood of a similar event in the future. In the longer term, continued investment in separating Vancouver's combined sewer system would help reduce peak wet-weather flows and lessen the risk of large volumes of accumulated gravel and debris being conveyed to the treatment plant during significant rainfall events.