

**METRO VANCOUVER REGIONAL DISTRICT  
LIQUID WASTE COMMITTEE**

**MEETING**

**Wednesday, March 12, 2025**

**9:00 am**

**28<sup>th</sup> Floor Committee Room, 4515 Central Boulevard, Burnaby, British Columbia**

**Webstream available at <https://www.metrovancover.org>**

**REVISED AGENDA**

**A. ADOPTION OF THE AGENDA**

**1. March 12, 2025 Meeting Agenda**

That the Liquid Waste Committee adopt the agenda for its meeting scheduled for March 12, 2025 as circulated.

**B. ADOPTION OF THE MINUTES**

**1. January 15, 2025 Meeting Minutes**

That the Liquid Waste Committee adopt the minutes of its meeting held January 15, 2025 as circulated.

*pg. 7*

**C. DELEGATIONS**

**D. INVITED PRESENTATIONS**

**E. REPORTS FROM COMMITTEE OR CHIEF ADMINISTRATIVE OFFICER**

**Revised**

**1. 2024 “Wipe It, Green Bin It” Campaign Results**

*pg. 12*

**Executive Summary**

The disposal of fats, oils, and grease (FOG) into the regional sewer system is an ongoing issue that costs the region over \$3 million a year. The 2024 “Wipe It, Green Bin It” campaign ran in the lead-up to Thanksgiving and through November, asking residents to put FOG in their green bins and not down their sinks. The campaign included social media, Pinterest, YouTube, television, transit advertising, Google Ads, and a website. The campaign delivered over 29 million impressions, 2,255 engagements, 5,366 clicks for more information, sent 6,000 residents to the website, and reached 650,000 residents through online channels. Monitoring of fats, oils, and grease at pump stations generally shows a drop in their levels since 2019. The campaign will run again in 2025 and will include ongoing measurement at pump stations and a post-campaign survey.

**Recommendation**

That the Liquid Waste Committee receive for information the report dated January 16, 2025, titled “2024 ‘Wipe It, Green Bin It’ Campaign Results”.

**2. 2024 “Our Ocean Thanks You” Campaign Results**

*pg. 23*

**Executive Summary**

Microfibres from laundry are one of the largest sources of microplastics pollution in the ocean and are harmful to aquatic life. The 2024 “Our Ocean Thanks You” campaign ran from September 16 to November 3, asking residents to wash their laundry in cold water to reduce microfibre shedding from clothing. The campaign targeted parents with children under 18 and included social media, YouTube, digital ads (television, Amazon Prime), radio/Spotify, transit advertising, Google Ads, social media influencers, and a campaign website. The campaign generated 18 million impressions, 2 million video views, 15,000 clicks for more information, 2,236 engagements, over 10,000 website visits, and reached over 500,000 residents. A post-campaign survey showed that the percentage of parents reporting they wash in cold specifically to reduce microfibre shedding has increased by 7 per cent since 2022. The campaign will run in 2025 with similar timing and approach.

**Recommendation**

That the Liquid Waste Committee receive for information the report dated January 16, 2025, titled “2024 ‘Our Ocean Thanks You’ Campaign Results”.

**3. Award of RFP 24-123 Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract** *pg. 27*

**Executive Summary**

Maple Reinders Constructors Ltd. proposal ranked highest overall, provided the lowest cost, met the technical requirements, and demonstrated best value overall for Metro Vancouver

The intent of RFP 24-123 is to secure a contractor to construct and commission the Hydrothermal Liquefaction (HTL) demonstration facility at Annacis Island Wastewater Treatment Plant (AIWWTP). The facility will enable Metro Vancouver to assess the technical and economic viability of HTL technology for treating wastewater sludge, and determine its potential to be part of the long-term management of Metro Vancouver wastewater residuals.

RFP 24-123 was issued on June 10, 2024 to the prequalified proponents of RFQ 23-433 and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 24-123 evaluation team have considered the proposals received, and on that basis recommend that the GVS&DD Board award RFP 24-123 to Maple Reinders Constructors Ltd.

**Recommendation**

That the GVS&DD Board:

- a) approve the award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract, in the amount of up to \$12,008,785.00 (exclusive of taxes) to Maple Reinders Constructors Ltd., 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.

**4. Award of RFP No. 24-469 - Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping**

*pg. 34*

**Executive Summary**

BelPacific Excavating & Shoring Limited Partnership, dba Bel Contracting's (Bel) proposal met all the technical requirements and demonstrated good value overall for Metro Vancouver. Bel presented a proposal with a total price that is aligned with Metro Vancouver's estimate, confirming that Metro Vancouver is receiving a value-added technical and commercial proposal.

The work to be provided under RFP 24-469 includes the construction of a junction chamber and related piping, two tie-in chambers, flow management and other activities as required to facilitate the construction.

RFP 24-469 was issued to Bel on November 29, 2024. The procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 24-469 evaluation team has considered the proposal received, and on that basis recommend that the GVS&DD Board award RFP 24-469 to Bel.

**Recommendation**

That the GVS&DD Board:

- a) approve the award of RFP 24-469 for Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping in the amount of up to \$22,030,278.90 (exclusive of taxes) to BelPacific Excavating and Shoring Limited Partnership, dba Bel Contracting, 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.

**5. Appointment of Enforcement Officers**

*pg. 38*

**Executive Summary**

Recent changes in staffing have resulted in a need to update staff appointments as Greater Vancouver Sewerage and Drainage District (GVS&DD) Board-designated officers under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* (the Bylaw), the *Environmental Management Act* and the *Offence Act*. Staffing changes are a result of retirements and recruitment for a resulting vacant position. Staff recommend that the GVS&DD Board appoint staff accordingly.

**Recommendation**

That the GVS&DD Board:

- a) pursuant to the Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007 and the Environmental Management Act:
  - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer; and
  - ii. appoint Metro Vancouver employee Gabriel de Andrade Fazoni as an officer.
- b) pursuant to section 28 of the Offence Act for the purposes of serving summons for alleged violations under the Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw
  - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer.

**6. Manager's Report**

*pg. 40*

**Recommendation**

That the Liquid Waste Committee receive for information the report dated February 27, 2025 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 March 12, 2025 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:
- (e) the acquisition, disposition or expropriation of land or improvements, if the council considers that disclosure could reasonably be expected to harm the interests of 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 March 12, 2025.

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Membership:

Brodie, Malcolm (C) – Richmond  
Knight, Megan (VC) – White Rock  
Albrecht, Paul – Langley City  
Binder, Rod – Delta  
Cassidy, Christine – West Vancouver

Elford, Doug – Surrey  
Ferguson, Steve – Langley Township  
Kim, Steve – Coquitlam  
Kirby-Yung, Sarah – Vancouver  
Little, Mike – North Vancouver District

MacDonald, Nicole – Pitt Meadows  
Nakagawa, Nadine – New Westminster  
Wang, James – Burnaby  
West, Brad – Port Coquitlam

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**METRO VANCOUVER REGIONAL DISTRICT  
LIQUID WASTE COMMITTEE**

Minutes of the Regular Meeting of the Metro Vancouver Regional District (MVRD) Liquid Waste Committee held at 9:00 am on Wednesday, January 15, 2025 in the 28<sup>th</sup> Floor Committee Room, 4515 Central Boulevard, Burnaby, British Columbia.

**MEMBERS PRESENT:**

Chair, Director Malcolm Brodie, Richmond  
Vice Chair, Director Megan Knight, White Rock  
Director Paul Albrecht, Langley City  
Director Rod Binder, Delta  
Councillor Christine Cassidy, West Vancouver  
Director Doug Elford, Surrey  
Director Steve Ferguson, Langley Township  
Councillor Steve Kim, Coquitlam  
Director Sarah Kirby-Yung, Vancouver (arrived at 9:15 am)  
Mayor Mike Little, North Vancouver District  
Director Nicole MacDonald, Pitt Meadows\*  
Director Nadine Nakagawa, New Westminster  
Councillor James Wang, Burnaby  
Director Brad West, Port Coquitlam\* (arrived at 9:53 am)

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

**STAFF PRESENT:**

Peter Navratil, General Manager, Liquid Waste Services  
Hadir Ali, Legislative Services Coordinator, Board and Information Services  
Jessica Hayes, Program Manager, Regional Planning and Housing Services

**A. ADOPTION OF THE AGENDA**

**1. January 15, 2025 Meeting Agenda**

**It was MOVED and SECONDED**

That the Liquid Waste Committee adopt the agenda for its meeting scheduled for January 15, 2025 as circulated.

**CARRIED**

**B. ADOPTION OF THE MINUTES****1. October 30, 2024 Special Meeting Minutes****It was MOVED and SECONDED**

That the Liquid Waste Committee adopt the minutes of its special meeting held October 30, 2024 as circulated.

**CARRIED****2. November 13, 2024 Regular Meeting Minutes****It was MOVED and SECONDED**

That the Liquid Waste Committee adopt the minutes of its meeting held November 13, 2024 as circulated.

**CARRIED****C. DELEGATIONS**

No items presented.

**D. INVITED PRESENTATIONS**

No items presented.

**E. REPORTS FROM COMMITTEE OR CHIEF ADMINISTRATIVE OFFICER****1. 2025 Liquid Waste Committee Meeting Schedule and Work Plan**

Report dated January 2, 2025 from Peter Navratil, General Manager, Liquid Waste Services, providing the Liquid Waste Committee with the 2025 work plan, the committee's Terms of Reference, and the annual meeting schedule.

Committee members received a presentation from Peter Navratil, titled "2025 Liquid Waste Committee Priorities and Work Plan", providing an overview of the work undertaken by the Liquid Waste Utility including an update on the Liquid Waste Management Plan, the major projects and contracts that will come forward in 2025, and liquid waste public outreach campaigns .

9:15 am Director Kirby Yung arrived at the meeting.

**It was MOVED and SECONDED**

That the Liquid Waste Committee:

- a) receive for information the Liquid Waste Committee Terms of Reference and the 2025 Annual Meeting Schedule, as presented in the report dated January 2, 2025, titled "2025 Liquid Waste Committee Meeting Schedule and Work Plan"; and
- b) endorse the 2025 Work Plan, as presented in the report dated January 2, 2025, titled "2025 Liquid Waste Committee Meeting Schedule and Work Plan".

**CARRIED**



**2. Consideration of Updating Development Cost Charge Waivers to Include Inclusionary Housing Units**

Report dated December 20, 2024, from Jessica Hayes, Program Manager, Regional Planning and Housing Services, presenting the Liquid Waste Committee with the opportunity to provide feedback on the proposed directions for Metro Vancouver's development cost charge waiver framework, including extending development cost charge waivers for private inclusionary housing units.

Jessica Hayes provided a presentation titled "Consideration of Updating Development Cost Charge Waivers to Include Inclusionary Housing Units", which outlined Metro Vancouver's current development cost charges waiver framework and outline possible expansions of the waiver framework to extend to private rental housing developments.

In response to the presentation, committee members expressed concern that waivers are a transfer of costs to the taxpayer.

**It was MOVED and SECONDED**

That the Liquid Waste Committee receive for information the report dated December 20, 2024, titled "Consideration of Updating Development Cost Charge Waivers to Include Inclusionary Housing Units".

**CARRIED**

**3. Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amending Bylaw No. 386, 2025**

Report dated December 20, 2024 from Dana Zheng, Program Manager, Policy, Planning and Analysis, Liquid Waste Services, seeking GVS&DD Board approval of the trucked liquid waste fees for 2025 and adoption of the *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 386, 2025*

9:53 am Director West arrived at the meeting.

**It was MOVED and SECONDED**

That the GVS&DD Board:

- a) give first, second and third reading to the *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amending Bylaw No. 386, 2025*; and
- b) adopt the *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amending Bylaw No 386, 2025*.

**CARRIED**

- 4. Award of RFP 24-391 for Columbia Forcemain Cured in Place Pipe Rehabilitation**  
Report dated January 10, 2025 by George Kavouras, Director, Procurement, Procurement & Real Estate Services and Joan Liu, Division Manager, Liquid Waste Services Collection System, seeking the GVS&DD Board approval to execute the award of RFP 24-391 for Columbia Forcemain Cured in Place Pipe Rehabilitation.

Committee members discussed the report and asked that more information be provided on the financial implications of this request when it comes before the GVS&DD Board.

**It was MOVED and SECONDED**

That the GVS&DD Board:

- a) approve the award of RFP 24-391 for Columbia Forcemain Cured in Place Pipe Rehabilitation in the amount of up to \$14,304,211.91 (exclusive of taxes) to Michels Canada Co., subject to final review by the Commissioner;
- b) authorize and approve a budget reallocation from the 2025 approved GVS&DD Budget in the amount of \$3,000,000 from the VSA Emergency Backup Power project to the Columbia Forcemain (CLT) Rehabilitation Project; and
- c) 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.

**5. Manager's Report**

Report dated December 20, 2025 from Peter Navratil, General Manager, Liquid Waste Services, providing the Liquid Waste Committee with an update on the environmental management system for the liquid waste utility.

**It was MOVED and SECONDED**

That the Liquid Waste Committee receive for information the report dated December 20, 2024 titled "Manager's Report".

**CARRIED**

**F. INFORMATION ITEMS**

No items presented.

**G. OTHER BUSINESS**

No items presented.

**H. RESOLUTION TO CLOSE MEETING****It was MOVED and SECONDED**

That the Liquid Waste Committee close its meeting scheduled for January 15, 2025 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:

- (e) the acquisition, disposition or expropriation of land or improvements, if the council considers that disclosure could reasonably be expected to harm the interests of the municipality;
- (g) litigation or potential litigation affecting the municipality;
- (j) information that is prohibited, or information that if it were presented in a document would be prohibited, from disclosure under section 21 of the Freedom of Information and Protection of Privacy Act; 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 council, could reasonably be expected to harm the interests of the municipality if they were held in public.

**CARRIED**

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

That the Liquid Waste Committee adjourn its meeting of January 15, 2025.

**CARRIED**

(Time: 10:03 am)

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Morgan Mackenzie,  
Legislative Services Coordinator

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Malcolm Brodie,  
Chair

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To: Liquid Waste Committee

From: Carol Nicolls, Communications Specialist, Corporate Communications

Date: January 16, 2025

Meeting Date: March 12, 2025

Subject: 2024 “Wipe It, Green Bin It” Campaign Results

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### **RECOMMENDATION**

That the Liquid Waste Committee receive for information the report dated January 16, 2025, titled “2024 ‘Wipe It, Green Bin It’ Campaign Results”.

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### **EXECUTIVE SUMMARY**

The disposal of fats, oils, and grease (FOG) into the regional sewer system is an ongoing issue that costs the region over \$3 million a year. The 2024 “Wipe It, Green Bin It” campaign ran in the lead-up to Thanksgiving and through November, asking residents to put FOG in their green bins and not down their sinks. The campaign included social media, Pinterest, YouTube, television, transit advertising, Google Ads, and a website. The campaign delivered over 29 million impressions, 2,255 engagements, 5,366 clicks for more information, sent 6,000 residents to the website, and reached 650,000 residents through online channels. Monitoring of fats, oils, and grease at pump stations generally shows a drop in their levels since 2019. The campaign will run again in 2025 and will include ongoing measurement at pump stations and a post-campaign survey.

### **PURPOSE**

To update the Liquid Waste Committee on the 2024 regional “Wipe It, Green Bin It” campaign to reduce the disposal of fats, oils, and grease in the sewer system.

### **BACKGROUND**

The disposal of FOG into the sewer system is an ongoing issue that costs the region over \$3 million every year. For example, in the summer of 2024, Metro Vancouver experienced a significant spike in FOG-related issues in regional sewers in Richmond. Fats, oils, and grease can harden in sewers, producing costly “fatbergs” that block sewers and lead to overflows into homes, businesses, and the environment. Since 2017, Metro Vancouver has conducted regional campaigns to ask residents to dispose of FOG in their green bin and not down their sink.

This report provides an overview of the main results of the 2024 “Wipe It, Green Bin It” campaign, as identified in the 2025 Liquid Waste Committee Work Plan.

### **“Wipe It, Green Bin It” 2024 Campaign**

The 2024 “Wipe It, Green Bin It” regional campaign took place from October 7 to November 17, 2024, aiming to reach residents in the lead-up to Thanksgiving and during a time of heavier, seasonal cooking. An additional Richmond-specific mini campaign also ran for the month of November to support efforts to address increased FOG issues that were identified during the

summer of 2024 and which remain ongoing. The campaign materials featured dripping grease, oil, or dairy, reminding residents to “Wipe It, Green Bin It” to avoid clogged pipes.

### **Media Strategy**

The regional campaign targeted Metro Vancouver residents aged 18–54 who cook or participate in cooking cleanup, with additional focus on younger residents (research shows this group is more likely to dispose of FOG incorrectly). Paid media included a mix of traditional and digital tactics, with placements on YouTube, social media (Facebook/Instagram), Pinterest, an in-language television PSA and interviews in Cantonese and Mandarin (Fairchild TV and Talent vision), transit advertising (buses and transit stations), and Google Ads. Digital placements targeted people with interests in cooking and food services and included use of a social media influencer, while television and transit advertising allowed the campaign to reach a broader demographic.

### **Engagement with Members**

Prior to launch, campaign details and creative materials were shared with members’ communication staff and the Regional Engineers Advisory Committee (REAC) – Liquid Waste Subcommittee. All materials are available for download on the Metro Vancouver website and members could request custom, co-branded materials. Materials included a printable rack card in six languages. The media buy included all member jurisdictions, ensuring that campaign ads appeared across the region.

### **Results**

#### *Digital Media*

- The campaign delivered 29 million impressions, which was comparable to 2023 results
- Targeted digital tactics delivered just under 9 million impressions across social media, Pinterest, YouTube, and Google Search, reaching over 650,000 residents
- Strong engagement on Facebook, Instagram, and Pinterest, with 2,255 engagements (reactions comments, shares, saves, pin clicks) and 4,716 clicks to the website for more information
- Influencer posts generated 19,354 views, reaching 172,404 residents
- Google Ads achieved a high click-through rate, with over 650 clicks to the website for more information, primarily due to searches related to cooking oil disposal
- In-language TV spots in Cantonese and Mandarin aired 295 times, reaching Cantonese and Mandarin-speaking residents.

#### *Website*

Just under 6,000 people visited the campaign website (Reference 1), with an average of 142 people per day going to the website during the campaign window and spending just over three minutes on the page. The extensive media coverage of fatberg removal from regional sewers in Richmond led to a spike in website visits at the end of October; an average of 400 people per day visited the web page on October 24 and October 25, 2024.

### **FATS, OILS, AND GREASE MEASUREMENT**

Fats, oils, and grease levels have been monitored at various pump stations since 2018. This monitoring uses a visual rating scale, which helps assess FOG issues and evaluate campaign

effectiveness. Metro Vancouver monitors FOG build-up at two Metro Vancouver pump stations in residential hot spot areas. In general, 2024 data show comparable FOG levels to 2023, with average yearly FOG levels dropping since 2019. This monitoring should be considered as just one metric to measure campaign success, as external conditions (such as rain and cleaning schedules) can affect FOG build-up.

### **PLANS FOR 2025 CAMPAIGN**

The campaign will run again in 2025 with similar timing and using existing creative. The campaign will continue to educate residents about the range of foods, like dairy, that can contribute to clogs. Metro Vancouver channels will be used to provide year-round messaging for seasonal holidays and events, such as Lunar New Year. A post-campaign survey will take place in 2025 and will help guide future campaign approaches.

### **ALTERNATIVES**

This is an information report. No alternatives are presented.

### **FINANCIAL IMPLICATIONS**

The 2024 "Wipe It, Green Bin It" campaign had a budget of \$116,000. These costs were included in the 2024 Liquid Waste Communications Program Budget managed by the External Relations Department.

### **CONCLUSION**

The "Wipe It, Green Bin It" campaign has been in market for eight years and continues to educate the public on proper fat, oil, and grease (FOG) disposal. Monitoring at pump stations for FOG is planned to continue in 2025 with a post-campaign survey planned late November. This will provide useful information to help assess the campaign's effectiveness and inform any adjustments that are needed for future campaigns — including whether to continue extra targeting of younger residents.

### **ATTACHMENTS**

1. Sample of Campaign Materials.
2. Presentation re: "Wipe It, Green Bin It" Campaign Results.

### **REFERENCE**

1. Campaign website: [Wipe It, Green Bin It](#)

## Sample of Campaign Materials



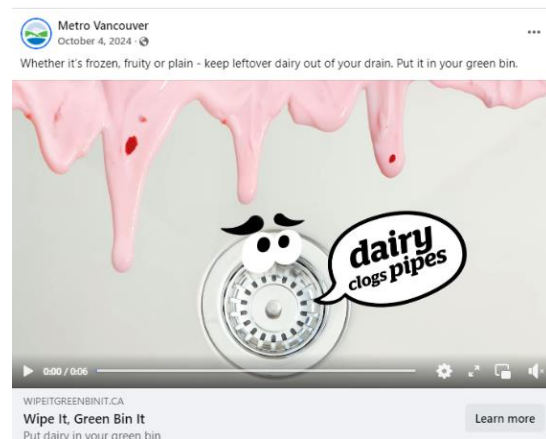
Advertising on bus sides



Advertising on digital screens in transit stations



Fairchild TV interview in Cantonese



Social media post

Report Approval





Wipe It, Green Bin It outdoor campaign materials

## 2024 “Wipe It, Green Bin It” Campaign Results

Carol Nicolls

Communications Specialist, Corporate Communications

Liquid Waste Committee, March 12, 2025  
73408091

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## GREASE FATBERG REMOVAL



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## OVERVIEW

- Residents 18-54
- October 7 to November 17
- Fats, oils, and grease (FOG)
- Regional media buy
  - Extra weight in Richmond



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## RESULTS

Media buy



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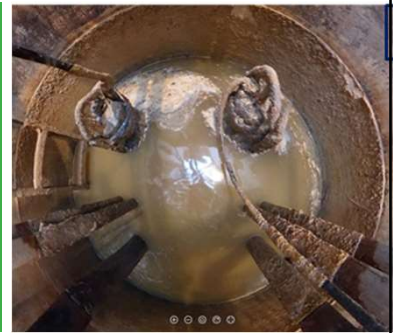
4

## RESULTS

Pump stations

- Monitoring FOG levels
- General decrease over time
- External factors influence results

Lowest



Highest



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## PLANS FOR 2025

- Similar timing and approach
- Assess audiences
- Survey
- Pump station monitoring



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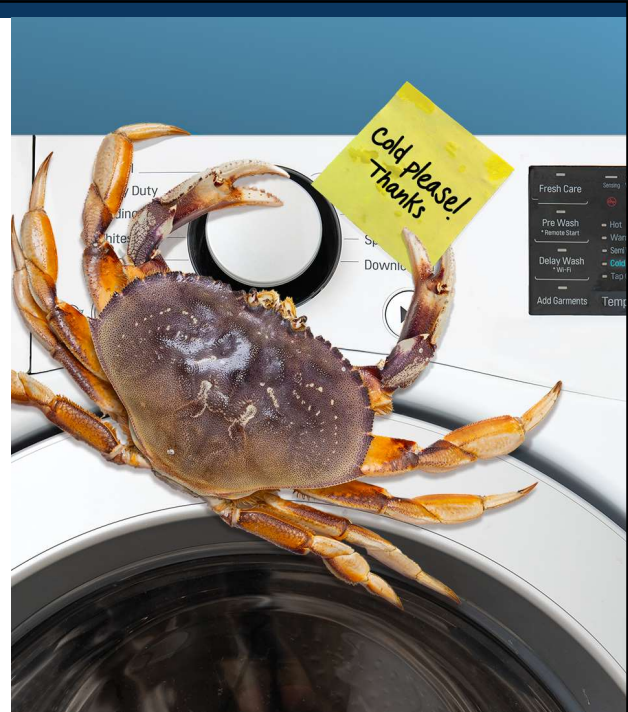


8



## OVERVIEW

- Parents with children under 18
- Wash laundry in cold
- September 16 – November 3



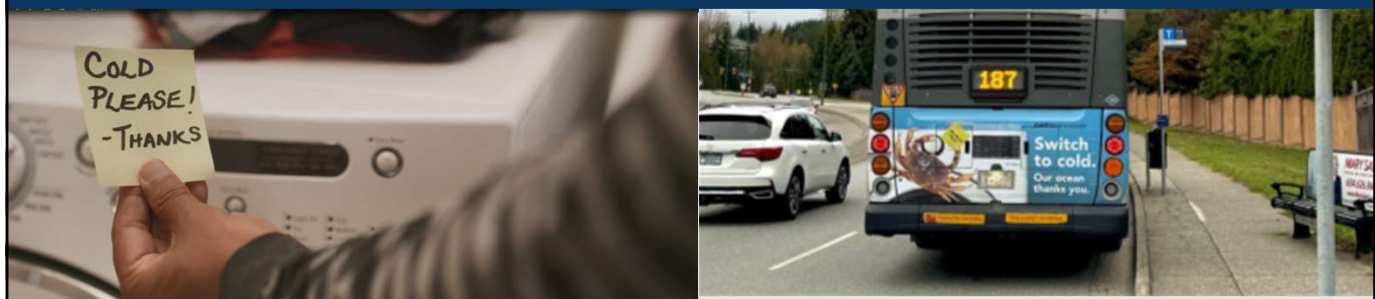
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## MEDIA PERFORMANCE



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## RESULTS

### Post-Campaign Survey

- 70% already wash in cold
- 38% who saw campaign wash more loads in cold
- 7% increase in residents washing in cold specifically to reduce microfibres



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## PLANS FOR 2025

- Similar timing and approach
- Additional creative materials
- Older parents



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Thank you

**metro**vancouver

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To: Liquid Waste Committee

From: Carol Nicolls, Communications Specialist, Corporate Communications

Date: January 16, 2025

Meeting Date: March 12, 2025

Subject: **2024 “Our Ocean Thanks You” Campaign Results**

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## RECOMMENDATION

That the Liquid Waste Committee receive for information the report dated January 16, 2025, titled “2024 ‘Our Ocean Thanks You’ Campaign Results”.

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## EXECUTIVE SUMMARY

Microfibres from laundry are one of the largest sources of microplastics pollution in the ocean and are harmful to aquatic life. The 2024 “Our Ocean Thanks You” campaign ran from September 16 to November 3, asking residents to wash their laundry in cold water to reduce microfibre shedding from clothing. The campaign targeted parents with children under 18 and included social media, YouTube, digital ads (television, Amazon Prime), radio/Spotify, transit advertising, Google Ads, social media influencers, and a campaign website. The campaign generated 18 million impressions, 2 million video views, 15,000 clicks for more information, 2,236 engagements, over 10,000 website visits, and reached over 500,000 residents. A post-campaign survey showed that the percentage of parents reporting they wash in cold specifically to reduce microfibre shedding has increased by 7 per cent since 2022. The campaign will run in 2025 with similar timing and approach.

## PURPOSE

To update the Liquid Waste Committee on the 2024 regional “Our Ocean Thanks You” campaign to reduce microfibres generated through laundry.

## BACKGROUND

Microfibres from laundry are one of the largest sources of microplastics in the ocean. Microfibres are tiny fibre pieces — less than 5 mm in size — that are shed from fabrics when they are washed. According to joint Metro Vancouver/Ocean Wise research, most of the microplastics in Metro Vancouver wastewater are microfibres from synthetic materials. While wastewater treatment plants can capture up to 95 per cent of incoming microfibres, the remaining microfibres that end up in the ocean may be harmful to fish and other aquatic life. Washing laundry in cold can reduce microfibre shedding by up to 50 per cent.

This report provides a summary of the results for the 2024 “Our Ocean Thanks You” campaign, as identified in the 2025 Liquid Waste Committee Work Plan.

## “OUR OCEAN THANKS YOU” 2024 CAMPAIGN

The 2024 regional “Our Ocean Thanks You” campaign ran from September 16 to November 3, 2024 and asked residents to reduce microfibres by washing their laundry in cold water. This is the campaign’s fourth year in market.

### **Campaign Approach**

The campaign primarily targeted parents with children under 18. Earlier campaign research showed that parents with young children are a key group to reach because they do the most laundry. They are also open to doing a simple action, like washing in cold, if it fits into their existing routines. The campaign creative shows local aquatic wildlife thanking residents for switching to cold water (see Attachment 1). Creative for 2024 featured new marine animals (crab and starfish) in laundry room settings, leaving sticky notes on washing machines to request cold water.

### **Engagement with Members**

Prior to launch, campaign details and creative materials were shared with members' communication staff and the REAC Liquid Waste Subcommittee. All materials are available for download on the Metro Vancouver website and members can request custom, co-branded materials. The media buy included all member jurisdictions, ensuring that the campaign ads covered the region.

### **Results**

The campaign's paid media buy included social media (Facebook, Instagram), Pinterest, YouTube, digital TV and Amazon Prime, radio and Spotify, advertising in transit stations and on buses, online banners, Google Ads, and social media influencers. All advertising directed people to the campaign website (Reference 1) for more information about microfibres issues and ways to reduce them. Overall, the campaign performed well, generating strong traffic to the website and solid engagement.

#### *Media Buy and Website*

- The campaign generated over 18 million impressions and reached at least 500,000 residents. Impressions are lower than the 25 million generated by the 2023 campaign, as the 2024 campaign focused more on increasing engagement.
- Video ads on Facebook, Instagram, YouTube, and digital TV generally had a high completion rate, ranging from 69 per cent (YouTube) to 96 per cent (Amazon Prime) and generated over 2 million complete views.
- Google Ads, digital ads, social media, and digital TV placements generated 15,000 clicks to the website for more information. Click-through rates were generally spread evenly across all creative, with the new crab image on social media generating the highest click-through-rate.
- Social media generated 3,843 engagements (likes, shares, saves, comments), a significant increase from the 253 engagements generated in 2023.
- Traffic to the website remained strong, with 10,700 people (an average of 255 per day) visiting the website during the campaign window.

#### *Post-campaign Survey*

A post-campaign survey of 503 parents with children under 18 was conducted from November 8 to 19, 2024. Many of the results from 2024 remained consistent with the previous survey in 2022. Results from the 2024 survey showed that:

- 29 per cent of parents recalled seeing at least one campaign ad (aided recall)



- Recall is highest among younger parents under 44 (16 per cent) and lowest among older parents 55+ (6 per cent)
- Of those who saw the advertising while it was in market, 38 per cent said they are washing more loads in cold water; awareness of microfibres issues from laundry is relatively low (42 per cent) among people who have not seen the campaign
- The percentage of people reporting to wash in cold specifically to reduce microfibre shedding increased to 22 per cent in 2024, up 7 per cent from 2022
- Nearly 70 per cent of parents report that they are already trying to do more laundry in cold water, mainly to save money on utility bills; older parents (55+) are less likely to do so compared to their younger counterparts
- Over half (60 per cent) of those who saw the campaign advertising for the first time as part of the survey said they are now more likely to wash clothes in cold water
- Just over one-in-five parents (18 per cent) report that they do not currently wash any of their laundry in cold water, mainly due to concerns around killing germs and getting clothes clean

### PLANS FOR 2025

The campaign will run again in 2025, using similar timing and approach. Some creative materials, such as the radio commercial, may need to be refreshed to keep audiences engaged. Survey results show that older parents are less likely to recall campaign materials and to wash in cold; more consideration will be given to how to better reach this demographic.

### ALTERNATIVES

This is an information report. No alternatives are presented.

### FINANCIAL IMPLICATIONS

The 2024 “Our Ocean Thanks You” campaign had a budget of \$169,000. These costs were included in the 2024 Liquid Waste Communications Program Budget managed by the External Relations Department.

### CONCLUSION

Microfibres from laundry are one of the largest sources of microplastics pollution in the ocean and can be reduced by washing in cold. The 2024 campaign achieved good engagement and strong traffic to the website. Awareness of microfibre issues remains relatively low among people who have not seen the campaign. Campaign recall and reach is lower among older parents; it may be worthwhile to more intensively target this group in 2025. Reaching parents with campaign messaging can be a challenge in a market that is heavily saturated with other advertising related to laundry products. Survey results show that many parents are washing in cold for other reasons and for this group, the campaign continues to reinforce the importance of this action.

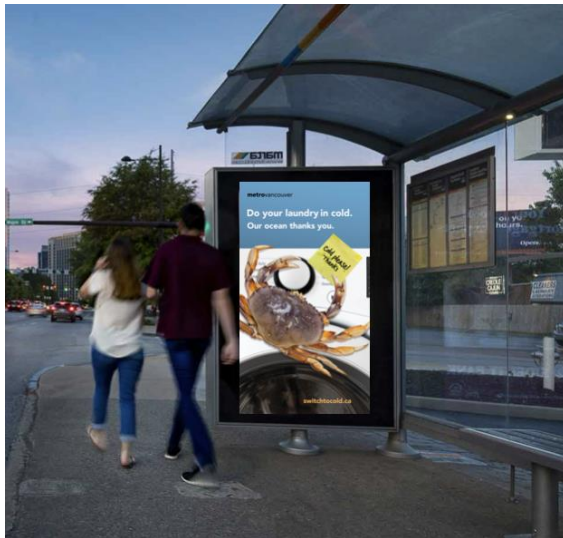
### ATTACHMENT

1. Sample of campaign materials.

### REFERENCE

1. Campaign website: [switchtocold.ca](https://switchtocold.ca).

## Sample of campaign materials



*Bus and transit shelter advertising*



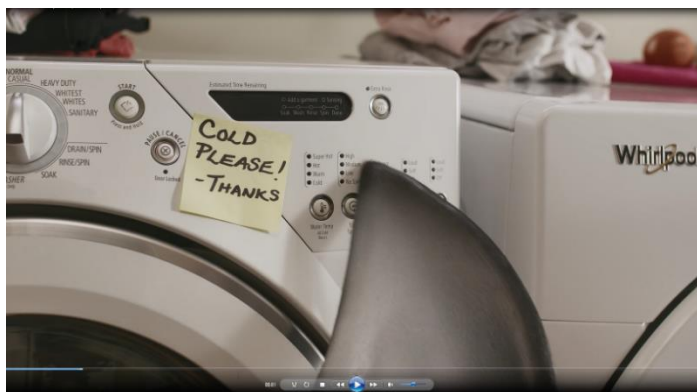
*Social media post*



*Digital banner ad*



*Spotify audio ad*



*Campaign video*

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To: Liquid Waste Committee

From: George Kavouras, Director, Procurement, Procurement & Real Estate Services  
Zeno Farinelli, Lead Senior Engineer, Liquid Waste Services

Date: February 27, 2025 Meeting Date: March 12, 2025

Subject: **Award of RFP 24-123 Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract**

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### RECOMMENDATION

That the GVS&DD Board:

- a) approve the award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract, in the amount of up to \$12,008,785.00 (exclusive of taxes) to Maple Reinders Constructors Ltd., 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

Maple Reinders Constructors Ltd. proposal ranked highest overall, provided the lowest cost, met the technical requirements, and demonstrated best value overall for Metro Vancouver

The intent of RFP 24-123 is to secure a contractor to construct and commission the Hydrothermal Liquefaction (HTL) demonstration facility at Annacis Island Wastewater Treatment Plant (AIWWTP). The facility will enable Metro Vancouver to assess the technical and economic viability of HTL technology for treating wastewater sludge, and determine its potential to be part of the long-term management of Metro Vancouver wastewater residuals.

RFP 24-123 was issued on June 10, 2024 to the prequalified proponents of RFQ 23-433 and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 24-123 evaluation team have considered the proposals received, and on that basis recommend that the GVS&DD Board award RFP 24-123 to Maple Reinders Constructors Ltd.

### PURPOSE

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

**Award of RFP 24-123 Site Preparation, Installation, Tie-in Connections and Commissioning for the  
Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction Demonstration Plant Contract**

Liquid Waste Committee Regular Meeting Date: March 12, 2025

Page 2 of 3

## **BACKGROUND**

The quantity of biosolids generated in the region will increase substantially due to upgrades to secondary wastewater treatment and population growth. Metro Vancouver is evaluating HTL to diversify options for managing the growing quantities of biosolids and reducing associated costs and risks. HTL converts wastewater sludge into biocrude, instead of producing biosolids; the biocrude can then be refined into low-carbon transportation fuels. The business case for HTL is positive, with lower lifecycle costs compared to traditional solids management.

Metro Vancouver is constructing a demonstration-scale HTL facility that will process wastewater sludge at Annacis Island Wastewater Treatment Plant (AIWWTP). The demonstration will test and optimize HTL performance, evaluate integration of HTL with existing WWTP processes, and confirm the business case, before recommending subsequent scale-up for permanent implementation of HTL at Metro Vancouver WWTPs. Under a different contract, the design and fabrication of the demonstration-scale HTL system is underway.

The scope of RFP 24-123 entails the installation and commissioning of the HTL system and all associated supporting infrastructure at AIWWTP. The work includes site preparation and site facilities installation (power, lighting, roadway, fencing, and utilities), supplying and installing auxiliary equipment, connecting the new system to the AIWWTP, and commissioning the entire system.

## **PROCUREMENT SUMMARY**

RFQ 23-433 was issued on December 18, 2023 to prequalify proponents to participate in RFP 24-123. Seven proponents responded to RFQ 23-433, of whom six proponents were shortlisted and invited to respond to RFP 24-123.

RFP 24-123 Submissions:

<b>Proponents</b>	<b>Pricing (excluding taxes)</b>
Maple Reinders Constructors Ltd.	\$12,008,785.00
Kenaidan Contracting Ltd.	\$12,562,202.00
North American Construction (1993) Ltd.	\$14,548,391.00
Tritech Group Ltd.	\$14,607,835.88
Graham Infrastructure LP	\$15,401,460.00

Metro Vancouver received five proposals. All proposals submitted by the proponents were in compliance with the submission requirements. The compliant proposals were evaluated against technical requirements (40%) and commercial requirements (60%). Technical requirements were evaluated by Liquid Waste Services Engineering Design and Construction staff, and commercial requirements were evaluated by Procurement and Real Estate Services staff.

After a comprehensive and detailed evaluation of the compliant proposals, the evaluation team concluded that the proposal submitted by Maple Reinders Constructors Ltd. ranked highest overall, provided the lowest cost, met the technical requirements, and demonstrated the best value overall.

**Award of RFP 24-123 Site Preparation, Installation, Tie-in Connections and Commissioning for the  
Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction Demonstration Plant Contract**

Liquid Waste Committee Regular Meeting Date: March 12, 2025

Page 3 of 3

for Metro Vancouver. More specifically; the proponent demonstrated strong staff qualifications and experience, project methodology, work plan, schedule and allocation of effort.

Negotiations with Maple Reinders Constructors Ltd. were completed on February 12, 2025 and the terms of the contract were agreed to and finalized. The contract value agreed to is \$12,008,785.

### **ALTERNATIVES**

1. That the GVS&DD Board:
  - a) approve the award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract in the amount of up to \$12,008,785.00 (exclusive of taxes) to Maple Reinders Constructors Ltd., 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 Board receive the report dated February 27, 2025, titled "Award of RFP 24-123 Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract" for information.

### **FINANCIAL IMPLICATIONS**

The 2025 approved capital budget for the AIWWTP Hydrothermal Processing Pilot is \$39,350,000 which includes the design and construction to complete the pilot project. To date, \$14,850,827 has been spent. The award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the AIWWTP Hydrothermal Liquefaction (HTL) Demonstration Plant Contract, in the amount of up to \$12,008,785.00 (exclusive of taxes) is within the approved capital budget.

### **CONCLUSION**

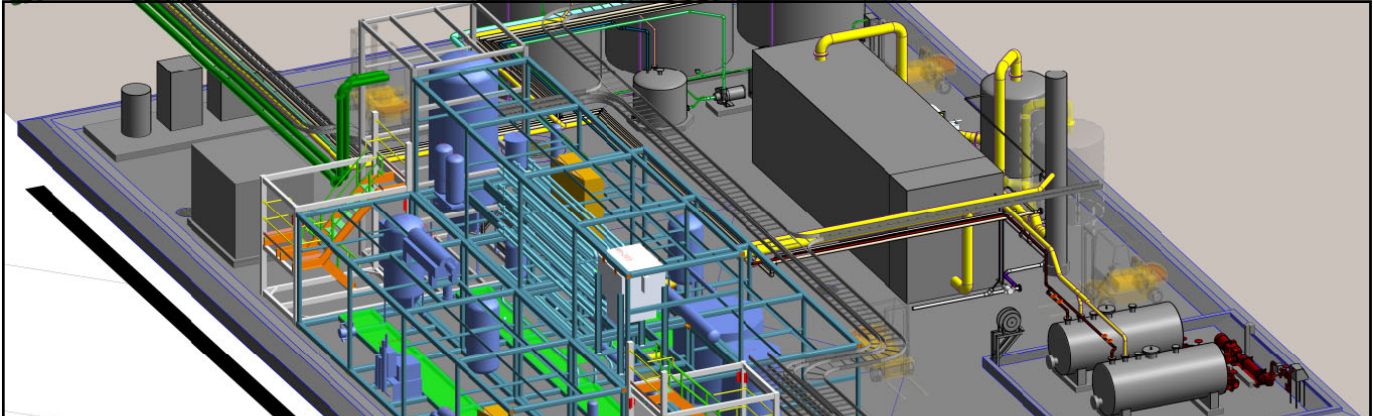
It is recommended that the GVS&DD Board approve the award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the AIWWTP Hydrothermal Liquefaction (HTL) Demonstration Plant Contract, in the amount of up to \$12,008,785.00 (exclusive of taxes) to Maple Reinders Constructors 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.

### **ATTACHMENT**

1. Presentation re: Award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections, Commissioning for AIWWTP HTL Demo Plant Contract.

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## Award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the AIWWTP Hydrothermal Liquefaction (HTL) Demonstration Plant Contract

Lillian Zaremba, P.Eng.

Program Manager, Collaborative Innovations, Liquid Waste Services  
Liquid Waste Committee Regular Meeting, March 12, 2025

Zeno Farinelli, P.Eng.

Lead Senior Engineer, Engineering, Design and Construction, Liquid Waste Services

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## HYDROTHERMAL LIQUEFACTION (HTL)

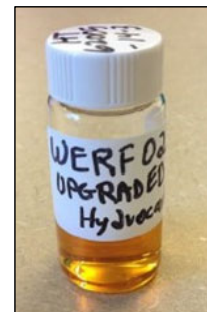
Biomass to biofuel



Wastewater sludge



Biocrude



Low-carbon fuel

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## HYDROTHERMAL PROCESSING BENEFITS

Alternative to anaerobic digestion and biosolids management



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## HYDROTHERMAL PROCESSING BENEFITS

Alternative to anaerobic digestion and biosolids management

- Lower lifecycle cost
- Smaller footprint
- Destroy compounds of environmental concern
- Reduce greenhouse gas emissions
- Produce low-carbon fuel



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## HTL PROJECT CONTRACTS AND STATUS

Company	Scope	Status	Spent to date	Budget
Merrick	Design skid-mounted HTL system	Complete	\$1,825,000	\$1,825,000
	Fabricate and supply skid-mounted HTL system	Delivery expected 2026	\$8,840,000	\$16,437,000
Jacobs	Owner's engineer; Design site, supporting infrastructure, and connection to AIWWTP	Design complete	\$2,618,000	\$4,481,000
Maple Reinders	Site construction and commissioning	Target completion 2026	\$0	\$12,009,000
Various	Other commitments and contingency	In progress	\$1,486,000	\$4,628,000
Total			\$14,769,000	\$39,380,000

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## RFP 24-123 PRICING SUMMARY

Proponent	Proposed Cost
<b>Maple Reinders Constructors Ltd.</b>	<b>\$12,008,785</b>
Kenaidan Contracting Ltd.	\$12,562,202
North American Construction (1993) Ltd.	\$14,548,391
Tritech Group Ltd.	\$14,607,836
Graham Infrastructure LP	\$15,401,460

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## RECOMMENDATION

That the Board:

- a) approve the award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the AIWWTP Hydrothermal Liquefaction (HTL) Demonstration Plant Contract, in the amount of up to \$12,008,785.00 (exclusive of taxes) to Maple Reinders Constructors Ltd., 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.

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To: Liquid Waste Committee

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

Date: February 20, 2025 Meeting Date: March 12, 2025

Subject: **Award of RFP No. 24-469: Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping**

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### RECOMMENDATION

That the GVS&DD Board:

- a) approve the award of RFP 24-469 for Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping in the amount of up to \$22,030,278.90 (exclusive of taxes) to BelPacific Excavating and Shoring Limited Partnership, dba Bel Contracting, subject to final review by the Commissioner; and
  - a) 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

BelPacific Excavating & Shoring Limited Partnership, dba Bel Contracting's (Bel) proposal met all the technical requirements and demonstrated good value overall for Metro Vancouver. Bel presented a proposal with a total price that is aligned with Metro Vancouver's estimate, confirming that Metro Vancouver is receiving a value-added technical and commercial proposal.

The work to be provided under RFP 24-469 includes the construction of a junction chamber and related piping, two tie-in chambers, flow management and other activities as required to facilitate the construction.

RFP 24-469 was issued to Bel on November 29, 2024. The procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 24-469 evaluation team has considered the proposal received, and on that basis recommend that the GVS&DD Board award RFP 24-469 to Bel.

### PURPOSE

Pursuant to *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.

### BACKGROUND

The existing South Surrey Interceptor (SSI) is located in the City of Surrey, and services all the communities south of the Fraser River. This most upstream portion collects all the flow from

**Award of RFP No. 24-469: Construction of South Surrey Interceptor No. 2, Johnston Road Section,  
Phase IV – Junction Chamber and Tie-in Piping**

Liquid Waste Committee Regular Meeting Date: March 12, 2025

Page 2 of 3

Cloverdale, Langley City and most of the Township of Langley, and conveys it to the Annacis Island Wastewater Treatment Plant.

This contract will be the culmination of approximately 30 years of work to twin the entire length of the SSI to provide capacity for a growing population and will facilitate the connection of five key sewers: the old and the new SSI's, Surrey Central Valley Trunk Sewer, and Cloverdale Force mains No. 1 and 2. This work supports Goal 1 of the Liquid Waste Management Plant which is to "Protect public health and the environment."

### **PROCUREMENT SUMMARY**

RFQ 23-381 was issued on April 22, 2024 to prequalify proponents to participate in RFP 24-469. Three proponents responded to RFQ 23-381, of those, only Bel's proposal met the required technical requirements and as such was shortlisted and invited to respond to RFP 24-469.

<b>Proponent</b>	<b>Proposed Fee (exclusive of taxes)</b>
BelPacific Excavating & Shoring Limited Partnership, dba Bel Contracting	\$22,030,278.90

RFP 24-469 was issued on November 19, 2024, and closed on January 24, 2025. Staff from the Liquid Waste Services and Procurement and Real Estate Departments had four collaboration meetings with Bel to ensure that they understood the scope of the project, to identify risk elements and cost-saving opportunities, and to ensure that the proposal reflected the needs of the Corporation. The proposal submitted by Bel followed and met the submission requirements. The technical component of the proposal was evaluated by staff within the Liquid Waste Services Department who were supported by our external consultant to confirm the Proponent has a comprehensive understanding of scope, challenges, and approach to the work. Bel presented a proposal with a total price that is aligned with Metro Vancouver's estimate, confirming that Metro Vancouver is receiving a value-added technical and commercial proposal. The collaboration meetings led to a robust risk management approach to the most complicated element of the work, namely maintaining system operation and minimizing risks of a sewage spill.

Following submission of the proposal, negotiations with Bel were completed on February 7, 2025 and the terms of the contract were agreed to and finalized. The contract value agreed to is \$22,030,278.90.

**Award of RFP No. 24-469: Construction of South Surrey Interceptor No. 2, Johnston Road Section,  
Phase IV – Junction Chamber and Tie-in Piping**

Liquid Waste Committee Regular Meeting Date: March 12, 2025

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**ALTERNATIVES**

1. That the GVS&DD Board:
  - a) approve the award of RFP 24-469 for Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping in the amount of up to \$22,030,278.90 (exclusive of taxes) to BelPacific Excavating and Shoring Limited Partnership, dba Bel Contracting, 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 Board receive the report dated February 20, 2025, titled “Award of a Contract Resulting from Request for Proposal No. 24-469: Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping” for information.

**FINANCIAL IMPLICATIONS**

If the GVS&DD Board approves Alternative 1, a contract will be awarded to Bel for an amount of \$22,030,278.90 (exclusive of taxes) to complete the construction of the SSI. This amount is within the budget allocated for this project.

**OTHER IMPLICATIONS**

If the tie-ins are not constructed in a timely fashion, there will be elevated risk of increased sewer spills as the existing infrastructure cannot support current flow or accommodate future growth of the region.

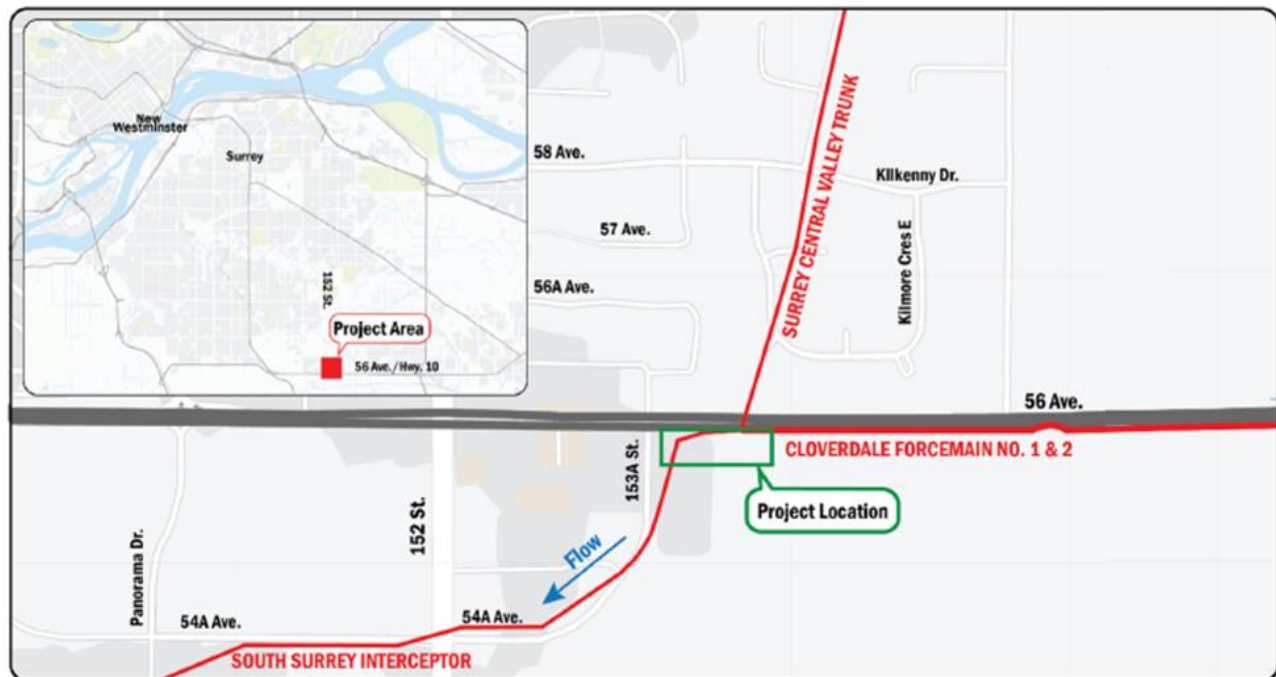
**CONCLUSION**

It is recommended that the GVS&DD Board approve the award of RFP 24-469 for Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping, in the amount of up to \$22,030,278.90 (exclusive of taxes) to Bel 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.

**ATTACHMENT**

1. Project Location.

73293166

**PROJECT LOCATION**

To: Liquid Waste Committee

From: Maari Hirvi Mayne, Program Manager, Enforcement and Regulation Liquid Waste,  
Environmental Regulation and Enforcement

Date: February 19, 2025

Meeting Date: March 12, 2025

Subject: **Appointment of Enforcement Officers**

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### RECOMMENDATION

That the GVS&DD Board:

- a) pursuant to the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* and the *Environmental Management Act*:
    - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer; and
    - ii. appoint Metro Vancouver employee Gabriel de Andrade Fazoni as an officer.
  - b) pursuant to section 28 of the *Offence Act* for the purposes of serving summons for alleged violations under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw*
    - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer.
- 

### EXECUTIVE SUMMARY

Recent changes in staffing have resulted in a need to update staff appointments as Greater Vancouver Sewerage and Drainage District (GVS&DD) Board-designated officers under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* (the Bylaw), the *Environmental Management Act* and the *Offence Act*. Staffing changes are a result of retirements and recruitment for a resulting vacant position. Staff recommend that the GVS&DD Board appoint staff accordingly.

### PURPOSE

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

### BACKGROUND

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

Employment status changes for Metro Vancouver and City of Vancouver environmental regulatory staff have resulted in a need to update staff appointments to ensure appropriate authority to advance liquid waste management goals. Staffing changes are a result of retirements and recruitment for a resulting vacancy. Section 29 of the *Environmental Management Act* and the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* grant authority to Board-designated officers.

Metro Vancouver staff are responsible for the administration of the GVS&DD liquid waste management bylaws within the boundaries of the GVS&DD, except for in the City of Vancouver, where city staff have historically administered these bylaws.

### ROLE OF MUNICIPAL SEWAGE CONTROL OFFICERS

Officers may enter property, inspect works, and obtain records and other information to promote compliance with the Greater Vancouver Sewerage and Drainage District liquid waste management bylaws.

The *Offence Act* allows regional districts to appoint enforcement officers for the purpose of serving summons for bylaw violations. Officers, if appointed for that purpose, may serve a summons in respect of alleged offences under the GVS&DD liquid waste management bylaws.

### ALTERNATIVES

1. That the GVS&DD Board :
  - a) pursuant to the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* and the *Environmental Management Act*
    - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer; and
    - ii. appoint Metro Vancouver employee Gabriel de Andrade Fazioni as an officer.
  - b) pursuant to section 28 of the *Offence Act* for the purposes of serving summons for alleged violations under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw*
    - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer.
2. That the GVS&DD Board receive for information the report dated February 19, 2025 titled "Appointment of Enforcement Officers".

### FINANCIAL IMPLICATIONS

There are no financial implications as the GVS&DD appointee is already on staff, and there are no costs associated with rescindments.

### CONCLUSION

Recent changes in staffing have resulted in a need to update staff appointments as GVS&DD Board-designated officers under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007*, the *Environmental Management Act*, and the *Offence Act*. Staff recommend that the GVS&DD Board adopt Alternative 1.

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To: Liquid Waste Committee

From: Peter Navratil, General Manager, Liquid Waste Services

Date: February 27, 2025

Meeting Date: March 12, 2025

Subject: **Manager's Report**

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## **RECOMMENDATION**

That the Liquid Waste Committee receive for information the report dated February 27, 2025 titled "Manager's Report".

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### **1. Update on the Annacis Island Wastewater Treatment Plant New Outfall Project**

The new outfall at the Annacis Island Wastewater Treatment Plant (AIWWTP) is now conveying effluent to the Fraser River. This major milestone was achieved on January 13, 2025 when, after years of planning and construction, the plant's treated effluent was diverted from the old outfall to the new outfall.

The old outfall at the AIWWTP has reached its capacity limitation; therefore, as the plant is expanded to treat more sewage, more outfall capacity is required. In terms of population, the expansion will serve an increase of about a quarter of million people. Additional benefits of the new outfall include significantly improved seismic resiliency, as well as improved dilution of effluent in the receiving environment. Unlike the old outfall, the new outfall has been designed and constructed to withstand the updated and more stringent seismic standards making it much more earthquake-proof. It has also been designed to disburse effluent in a much more efficient manner, thus enabling continued compliance with the Ministry of Environment's dilution requirements.

The new outfall system consists of a 5-metre diameter tunnel - at a depth of about 35 metres below ground - that connects the plant to a diffuser manifold system buried in a shallow trench in the riverbed. The diffuser manifold consists of two 130-metre long, 2.5-metre diameter steel pipes with 24 diffuser ports which discharge and disburse the effluent into the river over a large area.

The success of this challenging and complex project is attributed not only to the extensive team of innovative designers and builders, but also to the substantial amount of planning that was conducted including engagement with 21 First Nations, the Vancouver Fraser Port Authority, the Ministry of Environment, Department of Fisheries and Oceans, and surrounding businesses. Although the bulk of the work is now behind us and the new outfall is now in use, there is still another year's worth of work to go on this project to retrofit and remove some of the old infrastructure.



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## 2. 2024 Sustainable Communities Award

The Federation of Canadian Municipalities' (FCM) Sustainable Communities Awards honours sustainability projects that demonstrate environmental responsibility and excellence while yielding social and economic benefits for their communities. Winning projects leverage current and advanced technologies as well as best practices in sustainability and can be replicated across the country to help achieve national climate goals and increase the quality of life of Canadians.

Metro Vancouver was selected as a winner for its energy recovery policy and liquid waste and Waste-to-Energy Facility district energy projects under the 2024 Community Energy category. Through the *Sewage and Waste: Heat Recovery Policy*, Metro Vancouver is taking advantage of an opportunity to reduce greenhouse gas emissions by recovering waste heat from liquid waste and solid waste systems. The policy has directly led to the initiation of several heat recovery projects, as well as the Waste-to-Energy Facility District Energy Project, which are an important part of the region's transition to clean, renewable sources of energy. The total emission reduction potential of liquid waste system projects and the Waste-to-Energy Facility district energy system projects approximately equates to the annual emissions of 70,000 passenger vehicles. Receiving this award shows how energy recovery and district energy projects can help turn resources that would otherwise go to waste into long-term, sustainable, cost-effective solutions.

## 3. 2025 Inflow and Infiltration Communications Initiative

The inflow and infiltration communications initiative ran from January 6 to February 2, 2025. This awareness initiative helps residents understand how leaky or cracked pipes on their properties can contribute to sewer overflows by putting extra water into the sewer system. The initiative targeted residents aged 25–64 and included paid media placements on YouTube, Facebook, and Instagram. Paid media reached 622,000 residents — an increase from 340,000 residents the previous year. The initiative generated over 1 million video views, 332 engagements, 2,256 clicks for more information, and 1,800 website visits. The initiative will run again in 2026, with similar timing and creative materials.

## 4. Liquid Waste Committee 2025 Work Plan

The updated 2025 Work Plan (Attachment 2) shows the status of the Committee's key priorities for the year.

### ATTACHMENTS

1. AIWWTP Outfall Project Photos.
2. Liquid Waste Committee 2025 Work Plan.

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### AIWWTP Outfall Project Photos

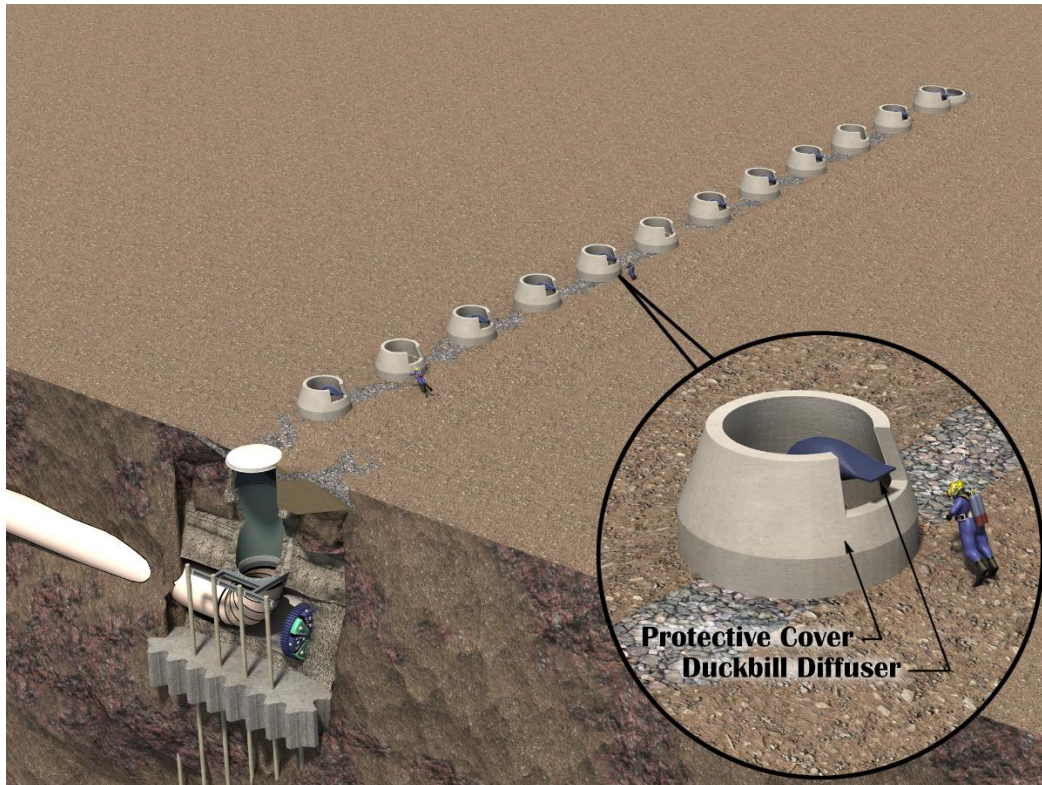


Figure 1: Graphical representation of the new outfall in the riverbed of Fraser River



Figure 2: Positioning the east diffuser manifold before lowering it into a trench in the riverbed



Figure 3: Placing the River Riser (it connects the deep tunnel to the diffuser manifolds)

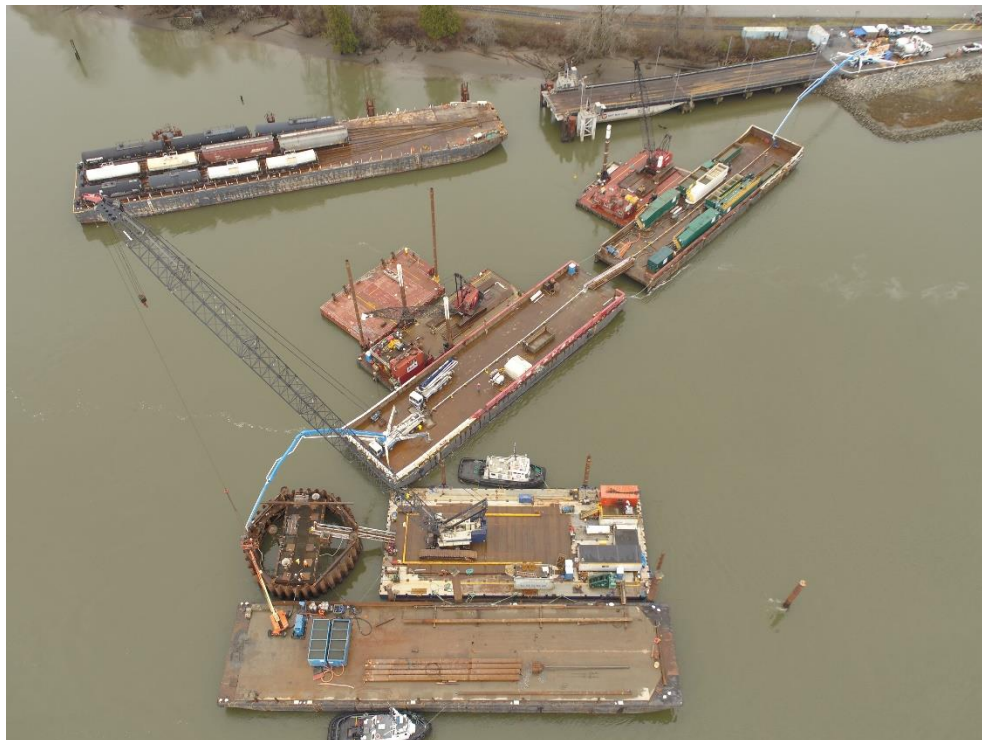


Figure 4: Concreting the foundation of the River Riser





Figure 5: Launching the Tunnel Boring Machine (TBM)



Figure 6: The Outfall Tunnel during construction



Figure 7: Treated Effluent flowing over the new control gate and into the new outfall system

### Liquid Waste Committee 2025 Work Plan

Report Date: March 12, 2025

Priorities	
1st Quarter	Status
2024 “Wipe It, Green Bin It” Campaign Results	In Progress
2024 “Our Ocean Thanks You” Campaign Results	In Progress
Consideration of Updating Development Cost Charge Waivers to Include Inclusionary Housing Units	Complete
GVS&DD Trucked Liquid Waste Amending Bylaw	Complete
Major Project Updates (as applicable)	In Progress
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	In Progress
Contract Approvals as per the <i>Procurement and Asset Disposal Authority Policy</i>	In Progress
Transaction Approvals as per the <i>Real Estate Authority Policy</i>	In Progress
Utility Policies (as applicable)	In Progress
2 <sup>nd</sup> Quarter	
Iona Island Wastewater Treatment Plant Projects – Proposed Barge Berth	In Progress
Liquid Waste Management Plan Phase 3 Engagement	In Progress
2024 Year-End Financial Results	In Progress
Major Project Updates (as applicable)	In Progress
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	In Progress
Contract Approvals as per the <i>Procurement and Asset Disposal Authority Policy</i>	In Progress
Transaction Approvals as per the <i>Real Estate Authority Policy</i>	In Progress
Utility Policies (as applicable)	In Progress
3rd Quarter	
Draft Liquid Waste Services 2025 – 2029 Capital Plan	Pending
2024 GVS&DD Environmental Management and Quality Control Annual Report	Pending
Liquid Waste Management Plan Recommendation to the Province	Pending
Innovation Project Updates	Pending
Major Project Updates (as applicable)	Pending
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Pending
Contract Approvals as per the <i>Procurement and Asset Disposal Authority Policy</i>	Pending
Transaction Approvals as per the <i>Real Estate Authority Policy</i>	Pending
Utility Policies (as applicable)	Pending
4th Quarter	
2026 – 2030 Five Year Financial Plan and 2025 Budget & Annual Rates	Pending
Major Project Updates (as applicable)	Pending
Drainage Area Policy	Pending
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Pending
Contract Approvals as per the <i>Procurement and Asset Disposal Authority Policy</i>	Pending
Transaction Approvals as per the <i>Real Estate Authority Policy</i>	Pending
Utility Policies (as applicable)	Pending