

**METRO VANCOUVER REGIONAL DISTRICT
LIQUID WASTE COMMITTEE**

MEETING

February 14, 2024

9:00 am

28th Floor Committee Room, 4515 Central Boulevard, Burnaby, British Columbia

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

A G E N D A¹

A. ADOPTION OF THE AGENDA

1. February 14, 2024 Meeting Agenda

That the Liquid Waste Committee adopt the agenda for its meeting scheduled for February 14, 2024 as circulated.

B. ADOPTION OF THE MINUTES

1. January 17, 2024 Meeting Minutes

That the Liquid Waste Committee adopt the minutes of its meeting held on January 17, 2024 as circulated.

pg 4

C. DELEGATIONS

D. INVITED PRESENTATIONS

E. REPORTS FROM COMMITTEE OR CHIEF ADMINISTRATIVE OFFICER

1. Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024 – Fraser Sewerage Area – Surrey (South Campbell Heights)

pg 10

That the GVS&DD Board:

- a) give first, second and third reading to the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024*; and,
- b) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024*.

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

2. **2023 “Wipe It, Green Bin It” Campaign Results** pg 26
That the Liquid Waste Committee receive for information the report dated January 25, 2024, titled “2023 ‘Wipe It, Green Bin It’ Campaign Results.”
3. **Award of a Contract Resulting from ITT No. 23-378: Construction Services - Royal Avenue Pump Station Rehabilitation** pg 35
That the GVS&DD Board:
a) approve award of ITT No. 23-378 for Construction Services – Royal Avenue Pump Station Rehabilitation in the amount of up to \$6,845,655 (exclusive of taxes) to Kenaidan Contracting 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. **Manager’s Report** pg 39
That the Liquid Waste Committee receive for information the report January 31, 2024 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 January 17, 2024 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.

I. ADJOURNMENT OR CONCLUSION

That the Liquid Waste Committee adjourn/conclude its meeting of February 14, 2024.

Membership:

Hurley, Mike (C) – Burnaby
Knight, Megan (VC) – White Rock
Albrecht, Paul – Langley City
Cassidy, Christine – West Vancouver
Elford, Doug – Surrey

Ferguson, Steve – Langley Township
Kim, Steve – Coquitlam
Kirby-Yung, Sarah – Vancouver
Kruger, Dylan – Delta
Little, Mike – North Vancouver District

Loo, Alexa – Richmond
MacDonald, Nicole – Pitt Meadows
Nakagawa, Nadine – New Westminster
West, Brad – Port Coquitlam
Yousef, Ahmed – Maple Ridge

**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 17, 2024 in the 28th Floor Boardroom
4515 Central Boulevard, Burnaby, British Columbia.

MEMBERS PRESENT:

Chair, Mayor Mike Hurley*, Burnaby
Vice Chair, Mayor Megan Knight*, White Rock
Councillor Paul Albrecht*, Langley City
Councillor Christine Cassidy*, West Vancouver
Councillor Doug Elford*, Surrey
Councillor Steve Ferguson*, Langley Township
Councillor Steve Kim*, Coquitlam
Councillor Sarah Kirby-Yung*, Vancouver
Councillor Dylan Kruger*, Vancouver
Councillor Alexa Loo*, Richmond
Mayor Nicole MacDonald*, Pitt Meadows
Mayor Mike Little*, North Vancouver District
Mayor Brad West*, Port Coquitlam
Councillor Ahmed Yousef*, Maple Ridge

MEMBERS ABSENT:

Councillor Nadine Nakagawa, New Westminster

STAFF PRESENT:

Jerry W. Dobrovolsky*, Chief Administrative Officer
Peter Navratil, General Manager, Liquid Waste Services
Sabrina Mann*, Legislative Services Coordinator, Board and Information Services

A. ADOPTION OF THE AGENDA

1. January 17, 2024 Meeting Agenda

It was MOVED and SECONDED

That the Liquid Waste Committee adopt the agenda for its meeting scheduled for January 17, 2024 as circulated.

CARRIED

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

B. ADOPTION OF THE MINUTES

1. November 8, 2023 Meeting Minutes

It was MOVED and SECONDED

That the Liquid Waste Committee adopt the minutes of its meeting held on November 8, 2023 as circulated.

CARRIED

C. DELEGATIONS

No items presented.

D. INVITED PRESENTATIONS

No items presented.

E. REPORTS FROM COMMITTEE OR CHIEF ADMINISTRATIVE OFFICER

1. Hydrothermal Processing: The Embedded Resources We Didn't Know Existed

Peter Navratil, General Manager, Liquid Waste Services shared a video with the Liquid Waste Committee members The Embedded Resources We Didn't Know Existed.

2. 2024 Liquid Waste Committee Meeting Schedule and Work Plan

Report dated January 5, 2024, from Peter Navratil, General Manager, Liquid Waste Services, providing the Liquid Waste Committee with the 2024 Work Plan, its Terms of Reference, and the annual meeting schedule.

Peter Navratil provided a presentation entitled "2024 Liquid Waste Committee Priorities and Work Plan".

It was MOVED and SECONDED

That the Liquid Waste Committee:

- a) receive for information the Liquid Waste Committee Terms of Reference and the 2024 Annual Meeting Schedule, as presented in the report dated January 5, 2024 titled "2024 Liquid Waste Committee Meeting Schedule and Work Plan"; and
- b) endorse the 2024 Work Plan, as presented in the report dated January 5, 2024, titled "2024 Liquid Waste Committee Meeting Schedule and Work Plan".

CARRIED

3. Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 374, 2024 – Fraser Sewerage Area – Maple Ridge (14500 Silver Valley Road)

Report dated December 14, 2023, from Maria Edwards, Project Engineer, Policy Planning and Analysis, Liquid Waste Services seeking the GVS&DD Board approval to amend the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018*, by adding four new building footprints at 14500 Silver Valley Road, in the City of Maple Ridge, to the Fraser Sewerage Area.

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 Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 374, 2024*; and
- b) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 374, 2024*.

CARRIED

4. 2024 Liquid Waste Capital Projects

Report dated December 13, 2023, from Colin Meldrum, Director, Engineering, Design & Construction, Liquid Waste Services, and Victor Castellanos, Senior Engineer, Engineering, Design & Construction, Liquid Waste Services, informing the GVS&DD Board of the Liquid Waste capital projects under its purview for 2024, as approved by the Board on October 27, 2023.

It was MOVED and SECONDED

That the GVS&DD Board receive for information the report dated December 13, 2023 titled “2024 Liquid Waste Capital Projects”.

CARRIED

5. 2023 “Our Ocean Thanks You” Campaign Results

Report dated January 9, 2024, from Carol Nicolls, Communications Specialist, Corporate Communications, updating the Liquid Waste Committee on the results of the 2023 regional “Our Ocean Thanks You” Campaign to reduce microfibers generated through laundry.

It was MOVED and SECONDED

That the Liquid Waste Committee receive for information the report dated January 9, 2024, titled “2023 ‘Our Ocean Thanks You’ Campaign Results”.

CARRIED

6. **Award of Contract Resulting from Standing Request for Expression of Interest No. 23-011: Biosolids Management – Multi-Site Forage Crop Fertilization**
Report dated December 13, 2023, from George Kavouras, Director, Procurement, Procurement and Real Estate Services, and Janelle Hunt, Program Manager, Utility Residuals Management, advising the GVS&DD Board of the results of the Standing Request for Expression of Interest No. 23-011: Biosolids Management – Multi-Site Forage Crop Fertilization, and to recommend award of the contract in the amount of up to \$5,607,000 (exclusive of taxes) to SYLVIS Environmental Services Inc.

It was MOVED and SECONDED

That the GVS&DD Board:

- a) approve award of a contract resulting from Standing Request for Expression of Interest No. 23-011 for Biosolids Management, in the amount of up to \$5,607,000 (exclusive of taxes) to SYLVIS Environmental Services Inc., for a term of five years with an option to extend for one (1) additional five (5) year term subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

CARRIED

7. **Award of Contract Resulting from Standing Request for Expression of Interest No. 23-011: Biosolids Management – Ingerbelle Composting Facility**
Report dated December 13, 2023, from George Kavouras, Director, Procurement, Procurement and Real Estate Services, and Janelle Hunt, Program Manager, Utility Residuals Management, Liquid Waste Services, advising the GVS&DD Board of the results of the Standing Request for Expression of Interest No. 23-011: Biosolids Management – Ingerbelle Composting Facility, and to recommend award of the contract in the amount of up to \$29,768,000 (exclusive of taxes) to Arrow Transportation Systems Inc.

It was MOVED and SECONDED

That the GVS&DD Board:

- a) approve award of a contract resulting from Standing Request for Expression of Interest No. 23-011 for Biosolids Management, in the amount of up to \$29,768,000 (exclusive of taxes) to Arrow Transportation Systems Inc., for a term of five years with an option to extend for one (1) additional two (2) year term subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

CARRIED

8. **Award of Contract Resulting from Request for Proposal No. 23-184: Iona Wastewater Treatment Plant Long-term Lagoon Cleaning**
Report dated January 9, 2024, from George Kavouras, Director, Procurement, Procurement and Real Estate Services, and Janelle Hunt, Program Manager, Utility Residuals Management, Liquid Waste Services, advising the GVS&DD Board of the results of the Request for Proposal No. 23-184: Iona Wastewater Treatment Plant Long-term Lagoon Cleaning and to recommend award of the contract cleaning in the amount of up to \$29,913, 644 (exclusive of taxes) to American Process Group (Canada) Ltd.

It was MOVED and SECONDED

That the GVS&DD Board:

- a) approve the award of RFP No. 23-184 for Iona Wastewater Treatment Plant long-term lagoon cleaning in the amount of up to \$29,913,644 (exclusive of taxes) to American Process Group (Canada) Ltd., for a term of 4 years with an option to extend for 2 years, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

CARRIED

9. **Manager's Report**
Report dated January 4, 2024, from Peter Navratil, General Manager, Liquid Waste Services, providing updates on the Metro Vancouver Receives CIE 2023 Changemaker Award, New Collaboration Using Hydrogen Fuel Cell Technology, Fraser Sewerage Area Servicing Plan Update Process, and the 2023 and 2024 inflow and the infiltration Communication Initiatives.

It was MOVED and SECONDED

That the Liquid Waste Committee receive for information the report dated January 4, 2024 titled "Manager's Report".

CARRIED

F. INFORMATION ITEMS

1. **Correspondence from sc̓awaθən məsteyəxʷ Tsawwassen First Nation and xʷməθkʷəy̓əm Musqueam Indian Band dated November 22, 2023 re: "Seeking Mandate to Co-Develop a Lower Fraser šxʷkʷəc̓xenəm Partnership"**
2. **Correspondence from MVRD Board Chair to sc̓awaθən məsteyəxʷ Tsawwassen First Nation and xʷməθkʷəy̓əm Musqueam Indian Band dated December 19, 2023 re: "Seeking Mandate to Co-Develop a Lower Fraser šxʷkʷəc̓xenəm Partnership"**

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 17, 2024 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;

CARRIED

I. ADJOURNMENT OR CONCLUSION

It was MOVED and SECONDED

That the Liquid Waste Committee adjourn its meeting of January 17, 2024.

CARRIED

(Time: 9:51 am)

Sabrina Mann,
Legislative Services Coordinator

Mike Hurley,
Chair

65369608 FINAL

To: Liquid Waste Committee

From: Mark Wellman, Senior Engineer, Policy Planning and Analysis, Liquid Waste Services

Date: January 31, 2024 Meeting Date: February 14, 2024

Subject: **Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024 – Fraser Sewerage Area – Surrey (South Campbell Heights)**

RECOMMENDATION

That the GVS&DD Board:

- a) give first, second and third reading to the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024*; and,
 - b) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024*.
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EXECUTIVE SUMMARY

On February 25, 2022, the MVRD Board adopted *Metro Vancouver Regional District Regional Growth Strategy Amendment Bylaw No. 1328, 2021*, which extended the Urban Containment Boundary in Surrey by 223.7 hectares. The bylaw re-designated lands with a Rural regional land use designation to: Mixed Employment; Conservation and Recreation; and Agricultural. It also re-designated 13.4 hectares of existing Mixed Employment lands to Conservation and Recreation.

Surrey requested that the GVS&DD Board consider amending the Fraser Sewerage Area (FSA) by 244.1 ha. The review determined that only 160.6 ha were eligible for sewer services. This request is consistent with the provisions of *Metro 2050: The Regional Growth Strategy (Metro 2050)*, and a Liquid Waste Services technical review indicated a negligible service impact with no material financial impact on the regional sewerage system.

Staff recommend that the Board approve Surrey's request to amend the FSA to include the subject properties shown on Map 1 and in Schedule A of the attached bylaw.

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 Mixed Employment properties, in whole or in part, to the FSA as shown on Schedule A of the attached bylaw, and by removing the Conservation Recreation properties, in whole or in part, from the FSA also shown on Schedule A of the attached bylaw.

BACKGROUND

Sewerage area boundaries are fixed by the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw, No. 310, 2018*. These boundaries are occasionally amended through an amendment bylaw and in accordance with Sections 31 and 32 of

the *GVS&DD Act*, typically at the request of a GVS&DD member.

The process for amending sewerage areas begins with the MVRD Board's evaluation of the application for consistency with the sewer-use provisions outlined in *Metro 2050*. Should the application satisfy those criteria, the application advances to the GVS&DD Board for an in-depth technical assessment. Ultimately, the authority to enact any amendments to the Sewerage Area rests with the GVS&DD Board.

On February 25, 2022, the MVRD Board adopted *Metro Vancouver Regional District Regional Growth Strategy Amendment Bylaw No. 1328, 2021*, which extended the Urban Containment Boundary within the South Campbell Heights area of the City of Surrey by 223.7 hectares. It re-designated lands with a 'Rural' regional land use designation within a Special Study Area to: 'Mixed Employment' (160.8 ha); 'Conservation and Recreation' (55.5 ha); and 'Agricultural' (12.1 ha). It also re-designated 13.4 hectares of existing 'Mixed Employment' designated lands to 'Conservation and Recreation'. Subsequent to the amendment of the regional growth strategy, the City of Surrey submitted a sewerage area amendment application to the GVS&DD requesting the GVS&DD Board consider amending the FSA to include the Mixed Employment properties, in whole or in part, as shown on Schedule A of the attached bylaw.

METRO 2050 REVIEW

The *Metro 2050* review process, as outlined in the reports from the October 29, 2021, January 28, 2022, and February 25, 2022 MVRD Board meetings, involved extensive deliberations and consultations regarding proposed amendments to the regional growth strategy for the South Campbell Heights area in the City of Surrey.

October 29, 2021 MVRD Board Meeting (Reference 1):

- The Regional Planning Committee recommended initiating the amendment process, including extending the Urban Containment Boundary and changing land use designations.
- Committee members supported increasing employment lands due to regional shortages and the location's connectivity to transportation networks.
- Concerns included the lack of environmental studies, insufficient engagement with local First Nations (notably Semiahmoo First Nation), the broad nature of the 'Mixed Employment' designation potentially leading to job sprawl, and the boundary extension beyond 16 Avenue.

January 28, 2022 MVRD Board Meeting (Reference 2):

- The Board considered comments from local governments and agencies, showing mixed reactions—support, concern, and opposition. Key concerns included environmental impacts, the extension of the Urban Containment Boundary, lack of clarity on the 'Mixed Employment' designation, and inadequate First Nations consultation.
- Semiahmoo First Nation opposed the amendment due to insufficient consultation and potential environmental and cultural impacts.
- Public comments opposed the amendment, citing environmental concerns, loss of rural land, and transportation issues.

February 25, 2022 MVRD Board Meeting (Reference 3):

- Following the referral back to staff, the City of Surrey addressed concerns raised by the MVRD Board, including environmental and aquifer protection, further engagement with Semiahmoo First Nation, and clarification on infrastructure needs and land use designations.
- Surrey's additional information aimed to reassure the Board regarding environmental sustainability, infrastructure capacity, and engagement with stakeholders.

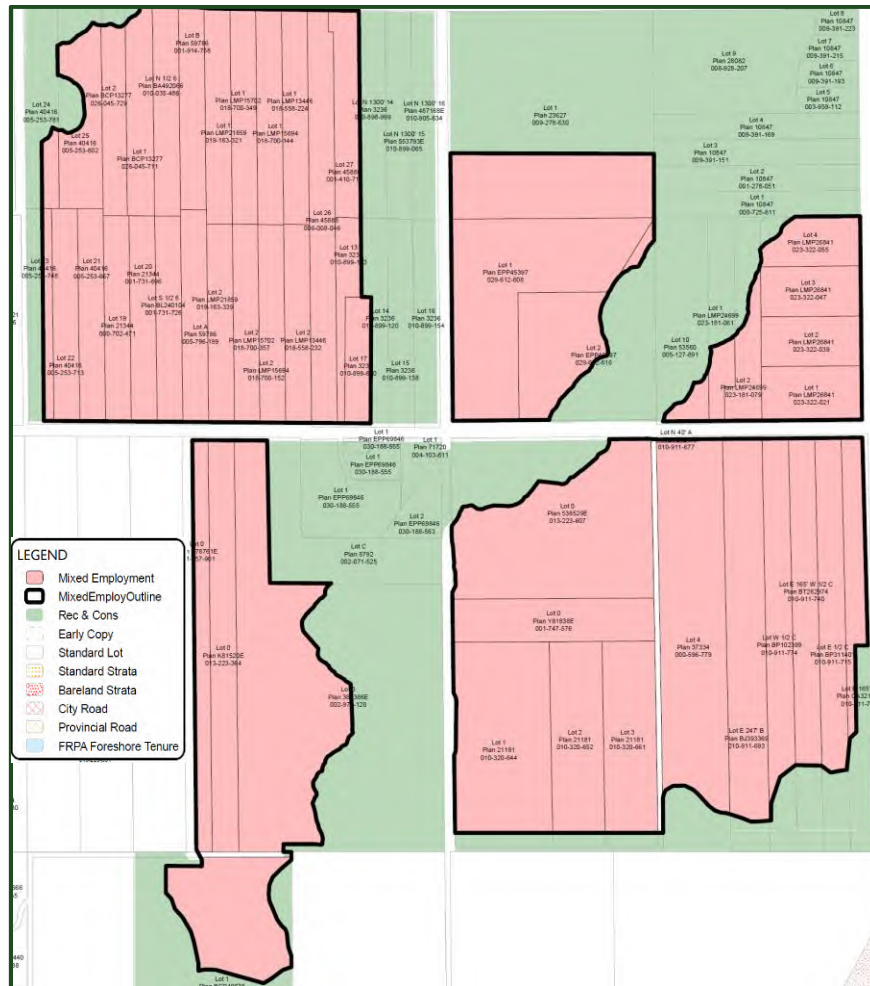
At the February 25, 2022 MVRD Regular Board meeting, the MVRD Board passed the following resolution:

That the MVRD Board:

- a) receive for information the report dated February 16, 2022, titled "Regional Growth Strategy Amendment Bylaw No. 1328 – South Campbell Heights, City of Surrey – Additional Information"; and*
- b) receive for information the comments from affected local governments and agencies as presented in the report dated January 17, 2022, titled "Regional Growth Strategy Amendment*
- c) pass and finally adopt Metro Vancouver Regional District Regional Growth Strategy Amendment Bylaw No. 1328, 2021.*

In summary, the review process involved a thorough examination of the proposed land use changes, with the MVRD Board weighing various factors such as regional employment needs, environmental protection, First Nations consultation, and the impact on regional infrastructure. The process reflected a careful balance between development goals and the preservation of environmental and cultural values. As a result of the MVRD Board resolution, the properties re-designated as Mixed Employment became eligible for regional sewer services under the provisions of *Metro Vancouver 2040: Shaping our Future* subject to GVS&DD Board consideration – the same sewer service provisions carried forward into *Metro 2050*, adopted by the MVRD Board on February 24, 2023.

Map 1: Areas to be added to Fraser Sewerage Area



GVS&DD TECHNICAL REVIEW

The Liquid Waste Services technical review assessed the financial, technical, operational, and service level impacts on the regional sewer system of Surrey's proposal to expand the FSA boundary by 244.1 ha. The review determined that only 160.6 ha were eligible for sewer services. This includes the removal of 13.4 hectares of previously designated Mixed Employment lands, which were re-designated as Conservation and Recreation lands. As such, Liquid Waste staff recommend removing these properties from the FSA as they are no longer eligible for sewer services. Surrey amended their application to include only the lands designated as Mixed Employment. The review concluded that while the expansion would have a negligible impact in dry weather, it would add to the existing sanitary overflow issues in the FSA during wet weather.

Surrey staff plans to incorporate appropriate wet weather management practices into this development and other areas of Surrey. These practices include reducing wet weather inflow and infiltration (I&I) to reduce sewer overflows as follows:

- use sealed maintenance holes for the gravity sewer system;

- inclusion of flow meters into the low pressure sewer system;
- monitoring of flow at the pump station; and
- possible inclusion of flow meters in the inverted siphon section of the conveyance works.

Surrey will monitor discharge from the area and undertake supplementary investigations initially through smoke testing, then through other means for any indications of I&I. Property owners will be required to correct I&I once identified.

Surrey is also developing an Integrated Stormwater Management Plan (ISMP) for the Little Campbell River and Brookwood Aquifer, focusing on sustainable drainage strategies and aquifer recharge to ensure sustainable groundwater and creek baseflows in alignment with Langley's Brookwood-Fernridge Community Plan. This involves specialized onsite and offsite stormwater management practices to protect the South Campbell Heights area.

The *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024* (Attachment 1) is attached for GVS&DD Board consideration.

ALTERNATIVES

1. That the GVS&DD Board:
 - a) give first, second and third reading to the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024*; and
 - b) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024*.
2. That the Liquid Waste Committee receive for information the report dated January 31, 2024, titled "*Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024 – Fraser Sewerage Area – Surrey (South Campbell Heights)*", and provide alternate direction to staff.

As the application is consistent with the provisions for sewer services under *Metro 2050*, and the City of Surrey has indicated that their wet weather I&I management efforts will mitigate the proposed increased sewer flows, and that no financial concerns exist, staff recommend Alternative 1.

FINANCIAL IMPLICATIONS

The property owners will bear the costs of connecting to the regional sewer system.

CONCLUSION

On February 25, 2022, the MVRD Board, through an amendment bylaw, extended the Urban Containment Boundary by 223.7 hectares and re-designated lands with a Rural regional land use designation within South Campbell Heights. The amendment bylaw changed the regional land use designation of the subject properties, allowing the properties to be considered for sewer service through a sewer area amendment application. The City of Surrey has now requested that the GVS&DD Board consider amending the Fraser Sewerage Area (FSA) to include the new Mixed

Employment lands, allowing regional sewer services for industrial and commercial development on those lands. This request is consistent with the provisions of *Metro 2050*. A Liquid Waste Services staff review concluded that no significant impact on the regional sewer system is expected during dry weather. The City of Surrey has indicated that their I&I reduction measures throughout the city should mitigate the additional sewer flows from these properties.

As the application is consistent with the provisions for sewer services under *Metro 2050*, and there are no significant regional, technical, or financial concerns, staff recommend Alternative 1.

ATTACHMENTS

1. *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024*
2. *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024 – South Campbell Heights Presentation*

REFERENCES

1. "[Metro Vancouver 2040: Shaping Our Future Land Use Designation Amendment Request from the City of Surrey – South Campbell Heights](#)", report dated October 8, 2021
2. "[Regional Growth Strategy Amendment Bylaw No. 1328 – South Campbell Heights, City of Surrey](#)", report dated January 17, 2022
3. "[Regional Growth Strategy Amendment Bylaw No. 1328 – South Campbell Heights, City of Surrey – Additional Information](#)", report dated February 16, 2022

63625947

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

BYLAW NO. 375, 2024

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

WHEREAS:

- A. the Board of Directors of the Greater Vancouver Sewerage and Drainage (the GVS&DD) Board (the "Board") 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. 375, 2024".

Schedule

2. The following Schedules are attached to and form part of the 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 by adding to the Fraser Sewerage Area in Schedule "A" and "B", the following full or partial properties, as shown in Schedule "A" – Location Plan, attached to and forming part of this Bylaw:

PID	Legal Description	Address
005-253-781	LOT 24, PLAN NWP40416, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18824 20 AVE SURREY V3Z 9V2
005-253-802	LOT 25, PLAN NWP40416, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18862 20 AVE SURREY V3Z 9V2
026-045-729	LOT 2, PLAN BCP13277, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18886 20 AVE SURREY V3Z 9V2
026-045-711	LOT 1, PLAN BCP13277, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18910 20 AVE SURREY V3Z 9V2
010-035-486	LOT N1/2 LOT 6, PLAN NWP3236, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18942 20 AVE SURREY V3Z 9V2

PID	Legal Description	Address
001-914-758	LOT B, PLAN NWP59786, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, BCP2289 EASEMENT (0.121 HA)	18962 20 AVE SURREY V3Z 9V2
019-163-321	LOT 1, PLAN LMP21859, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18998 20 AVE SURREY V3Z 9V2
018-700-349	LOT 1, PLAN LMP15702, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19010 20 AVE SURREY V3Z 9V2
018-700-144	LOT 1, PLAN LMP15694, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19030 20 AVE SURREY V3Z 9V2
018-558-224	LOT 00026, PLAN LMP13446, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19066 20 AVE SURREY V3Z 9V2
006-008-046	LOT 26, PLAN NWP45888, SECTION SE16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19085 16 AVE SURREY V4A 8T8
001-410-717	LOT 27, PLAN NWP45888, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19110 20 AVE SURREY V3Z 9V2
005-253-748	LOT 23, PLAN NWP40416, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18825 16 AVE SURREY V3Z 9V2
005-253-713	LOT 22, PLAN NWP40416, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18843 16 AVE SURREY V3Z 9V2
005-253-667	LOT 21, PLAN NWP40416, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18861 16 AVE SURREY V3Z 9V2
000-702-471	LOT 19, PLAN NWP21344, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18885 16 AVE SURREY V3Z 9V2
001-731-696	LOT 20, PLAN NWP21344, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18919 16 AVE SURREY V3Z 9V3
001-731-726	LOT S1/2 6, PLAN NWP3236, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, EXCEPT PLAN S 7'	18937 16 AVE SURREY V3Z 9V2
005-796-199	LOT A, PLAN NWP59786, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18973 16 AVE SURREY V3Z 9V3
019-163-339	LOT 2, PLAN LMP21859, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18999 16 AVE SURREY V3Z 9V3
018-700-357	LOT 2, PLAN LMP15702, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19019 16 AVE SURREY V3Z 9V3
018-700-152	LOT 2, PLAN LMP15694, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19037 16 AVE SURREY V3Z 9V3
018-558-232	LOT 2, PLAN LMP13446, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19055 16 AVE SURREY V3Z 9V3
010-899-103	LOT 13, PLAN NWP3236, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, EXCEPT PLAN N 1300', (GRAVEL)	19101 16 AVE SURREY V4A 8T8

PID	Legal Description	Address
010-899-600	LOT 17, PLAN NWP3236, PART SE1/4, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, (GRAVEL).	19117 16 AVE SURREY V4A 8T8
029-612-608	LOT 1, PLAN EPP45397, SECTION 15, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	1760 192 ST SURREY
029-612-616	LOT 2, PLAN EPP45397, SECTION 15, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	1620 192 ST SURREY V3Z 9V2
005-127-891	LOT 10, PLAN NWP53560, PART SW1/4, SECTION 15, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19451 16 AVE SURREY V3Z 9V2
023-181-061	LOT 1, PLAN LMP24699, GROUP 2, SECTION 15, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19465 16 AVE SURREY V3Z 9V2
023-181-079	LOT 2, PLAN LMP24699, GROUP 2, SECTION 15 TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19475 16 AVE SURREY V3Z 9V2
023-322-055	LOT 4, PLAN LMP26841, SECTION 15, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	1771 196 ST SURREY V3Z 9V2
023-322-047	LOT 3, PLAN LMP26841, SECTION 15, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	1725 196 ST SURREY V3Z 9V2
023-322-039	LOT 2, PLAN LMP26841, SECTION 15, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	1681 196 ST SURREY V3Z 9V2
023-322-021	LOT 1, PLAN LMP26841, SECTION 15, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19571 16 AVE SURREY V3Z 9V2
001-057-901	PART W1/2 OF E1/2 OF E1/2 OF NE1/4, SECTION 9, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18962 16 AVE SURREY V3Z 9V2
013-223-364	SECTION 9, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, E1/4 OF E1/2 OF W1/2 OF NE1/4	18992 16 AVE SURREY V3Z 9V2
002-973-120	PART E1/2 OF NE1/4, SECTION 9, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, EXC PCL D REF PL 1774, PCL A REF PL 3666, PCL C REF PL 8792 & EPP69845	19022 16 AVE SURREY V3Z 9V2
028-725-794	LOT 1, PLAN BCP49638, SECTION 9, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	18923 8 AVE SURREY V3Z 9R9
013-223-607	PART N1/2 OF W1/2 OF NW1/4, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, EXCEPT PLAN THE SOUTH 268 FT, & EXC THE E 33 FT	19356 16 AVE SURREY
001-747-576	PART N1/2 OF W1/2 OF NW1/4, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, EXCEPT PLAN E 33', S 268.5'	1417 194 ST SURREY V3Z 9R9
010-320-644	LOT 1, PLAN NWP21181, PART S1/2 OF W1/2 OF NW1/4, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	1397 194 ST SURREY V3Z 9R9
010-320-652	LOT 2, PLAN NWP21181, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	1399 194 ST SURREY V3Z 9R9

PID	Legal Description	Address
010-320-661	LOT 3, PLAN NWP21181, PART S1/2 OF W1/2 OF NW1/4, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	1395 194 ST SURREY V3Z 9R9
010-911-677	LOT A, PLAN NWP3461, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, N 40'	19414 16 AVE SURREY V3Z 9V2
000-596-779	LOT 4, PLAN NWP37334, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19438 16 AVE SURREY
010-911-693	LOT B, PLAN NWP3461, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, E 247'	19474 16 AVE SURREY V3Z 9V2
010-911-774	PARCEL 1 OF LOT C, PLAN NWP3461, PART NW1/4, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, PCL 1(284946E) EXC E 165'	19516 16 AVE SURREY V3Z 9V2
010-911-740	LOT C, PLAN NWP3461, PART E1/2 OF NW1/4, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, PORTION E 165' W 1/2	19534 16 AVE SURREY V3Z 9V2
010-911-715	LOT E1/2 LOT C, PLAN NWP3461, PART E1/2 OF NW1/4, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, EXC E 165', MANUFACTURED HOME REG.# 23517	19564 16 AVE SURREY V3Z 9V2
010-911-707	LOT C, PLAN NWP3461, SECTION 10, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT, E 165'	19586 16 AVE SURREY V3Z 9V2

4. "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018" is amended by deleting from the Fraser Sewerage Area in Schedule "A" and "B", the following full or partial properties, as shown in Schedule "A" – Location Plan, attached to and forming part of this Bylaw:

PID	Legal Description	Address
010-898-999	LOT N1300' 14, PLAN NWP3236, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19138 20 AVE SURREY V3S 9V2
010-899-065	LOT N1300' 15, PLAN NWP3236, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19158 20 AVE SURREY V3S 9V2
010-905-634	LOT N1300' 16, PLAN NWP3236, SECTION 16, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19178 20 AVE SURREY V3S 9V2
009-278-630	LOT 1, PLAN NWP23627, PART SW1/4, SECTION 15, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19230 20 AVE SURREY V3S 9V2
008-928-207	LOT 9, PLAN NWP28082, PART SW1/4, SECTION 15, TOWNSHIP 7, NEW WESTMINSTER LAND DISTRICT	19496 20 AVE SURREY V3S 9V2

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

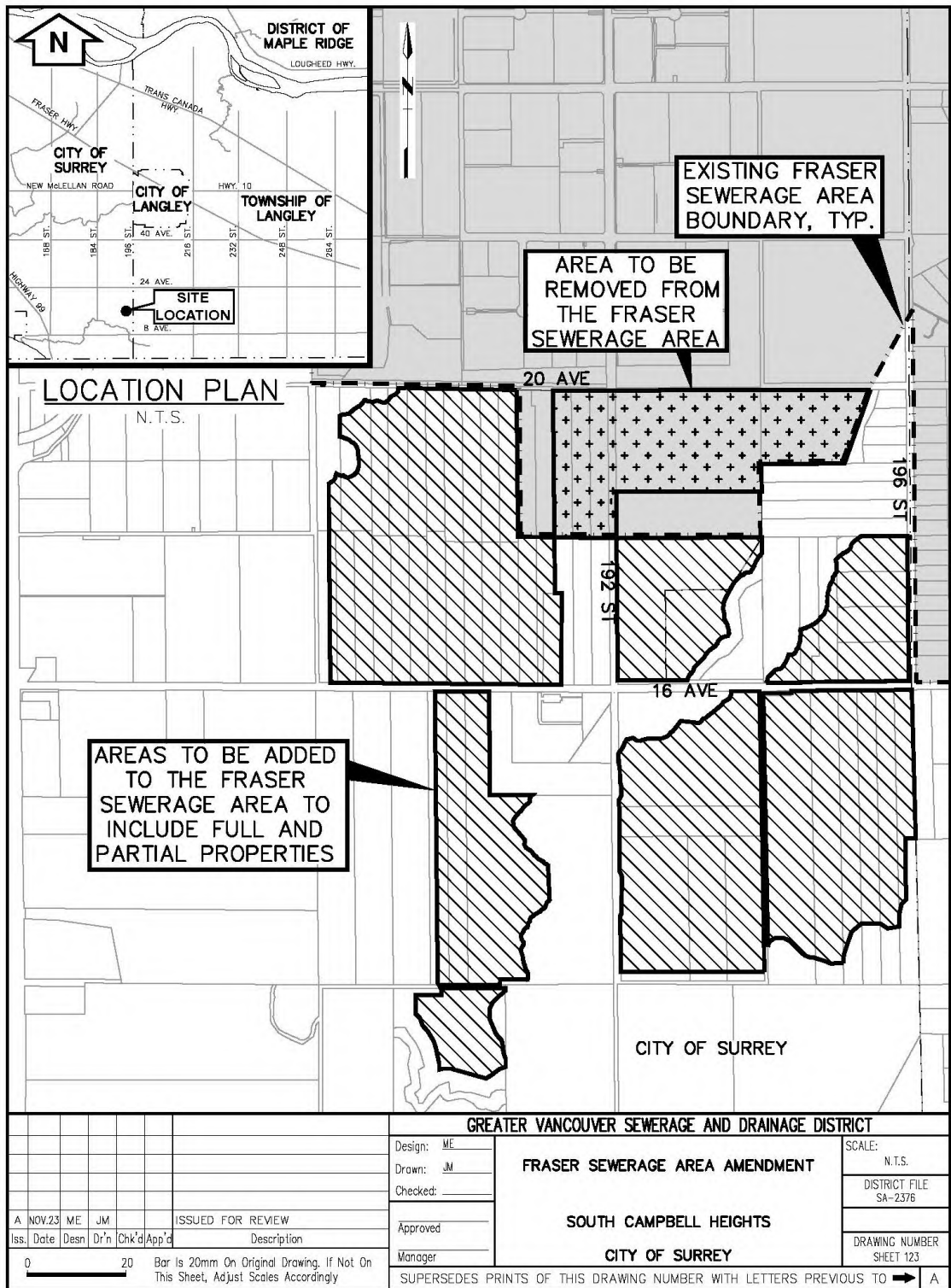
Passed and finally adopted this _____ day of _____, _____.

George V. Harvie, Chair

Dorothy Shermer, Corporate Officer

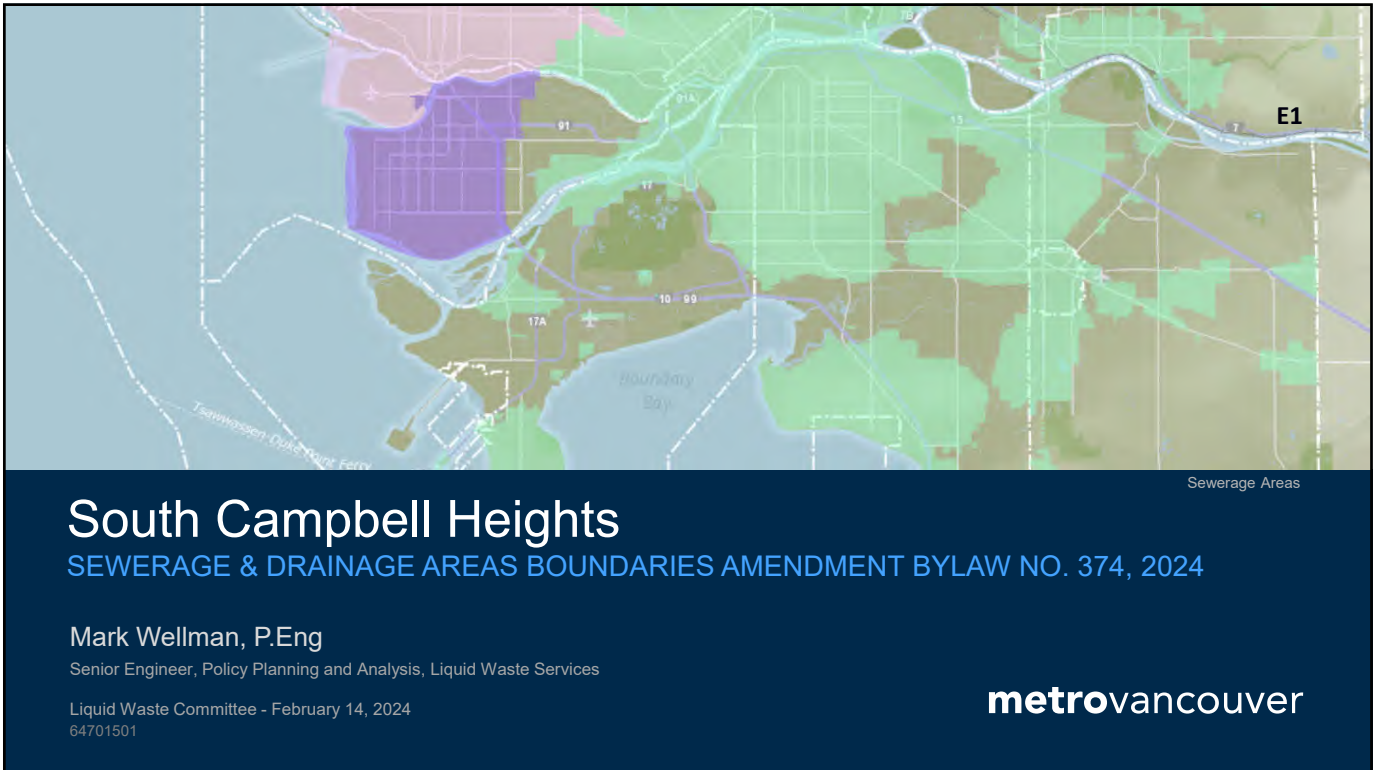
Schedule A

Location Plan



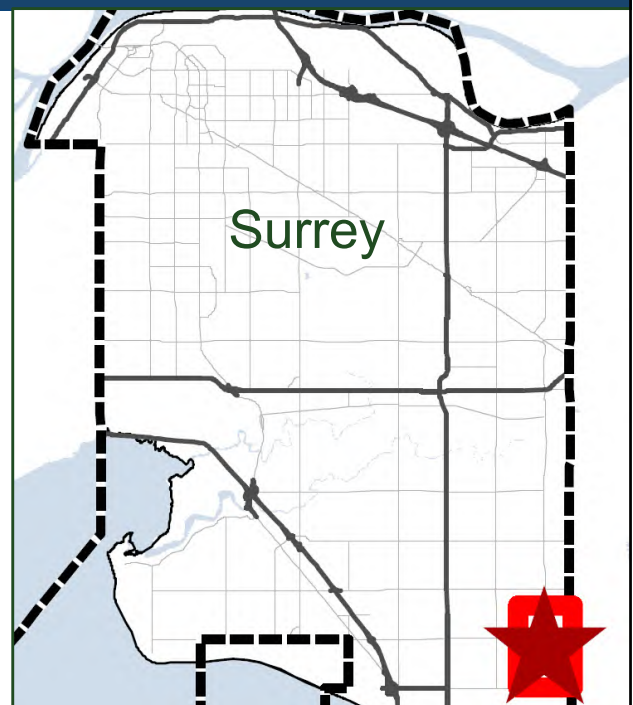
Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries
Amendment Bylaw No. 375, 2024

ATTACHMENT 2

**SOUTH CAMPBELL HEIGHTS**

Overview

- South Campbell Heights is located in southeast Surrey
- Adjacent to the existing Campbell Heights Business Park near the Township of Langley

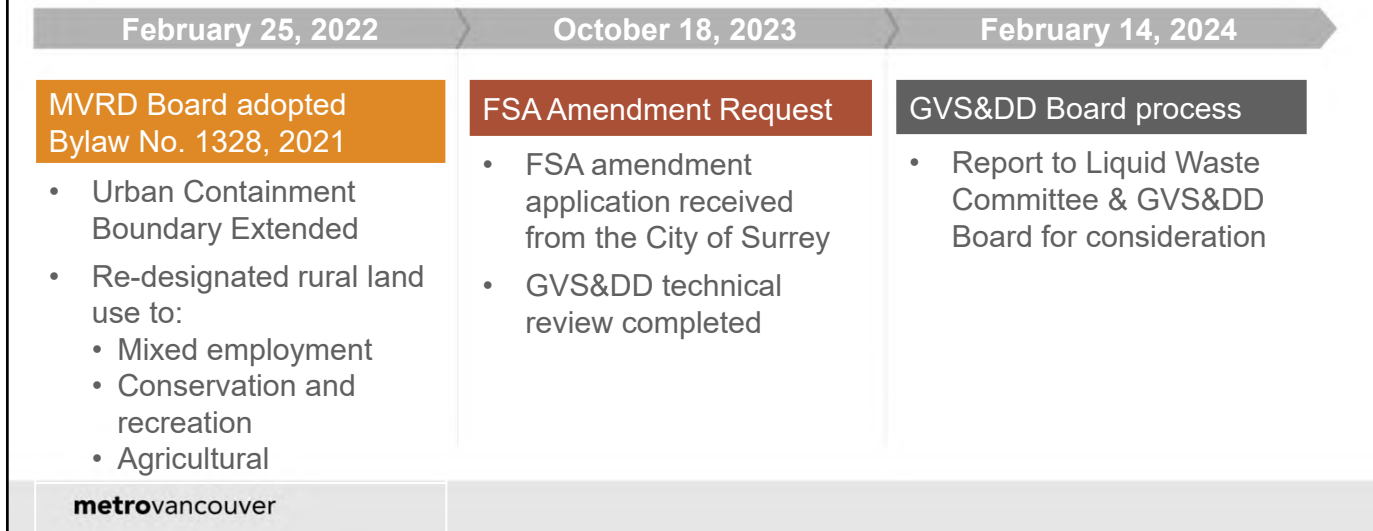


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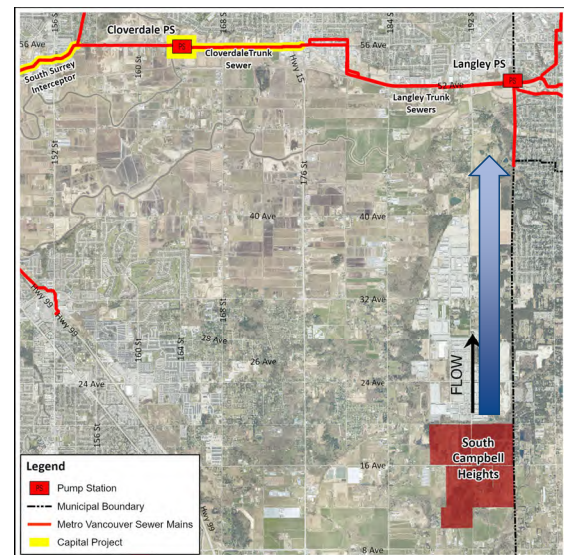
SEWERAGE AREA AMENDMENT

Process and Timeline



TECHNICAL REVIEW

- South Surrey is growing
- Metro Vancouver's existing asset management plans accommodate the anticipated growth
- This development will not necessitate any acceleration of the existing plans



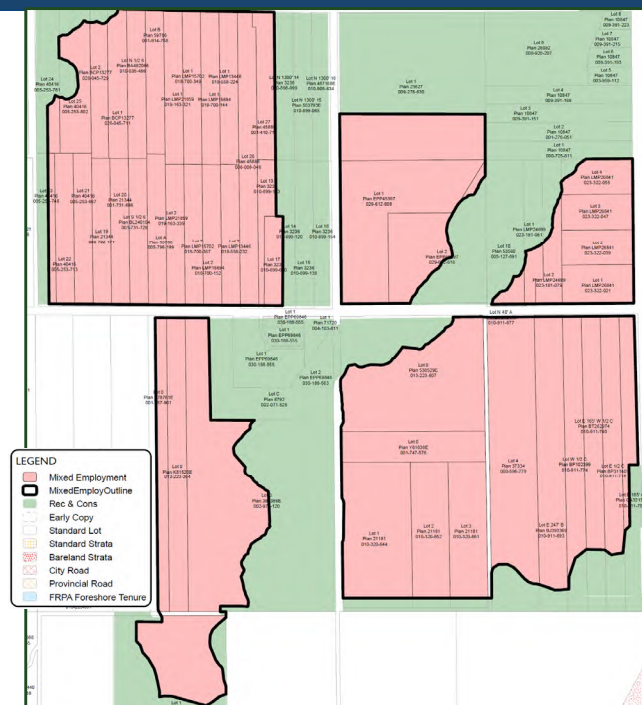
TECHNICAL REVIEW

- Area to be added to FSA reduced from 245 ha to 160 ha
- Minimal impact to regional sewer system in dry weather
- Increased SSOs in the regional sewer system in wet weather
 - Surrey will offset flows through I&I measures
- Property owners are responsible for the costs of connections

SOUTH CAMPBELL HEIGHTS

Mixed-employment lands

- 160.8 ha of land re-designated from 'Rural' land use to 'Mixed Employment'
- Properties eligible to be added to FSA are shown in pink



RECOMMENDATION

That the GVS&DD Board:

- a) give first, second and third reading to the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024*; and,
- b) pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 375, 2024*.



To: Liquid Waste Committee

From: Carol Nicolls, Communications Specialist, External Relations

Date: January 25, 2024

Meeting Date: February 14, 2024

Subject: **2023 “Wipe It, Green Bin It” Campaign Results**

RECOMMENDATION

That the Liquid Waste Committee receive for information the report dated January 25, 2024, titled “2023 ‘Wipe It, Green Bin It’ Campaign Results”.

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 2023 “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, YouTube, television, transit advertising, Google search, and a website. The campaign produced solid results and delivered over 32 million impressions, 1,050 engagements, 1 million video views, 7,600 clicks for more information, 6,800 website visits, and reached 940,000 residents through online tactics. Post-campaign survey results show the number of residents who say they dispose of FOG into the drain dropped to 32% in 2023, compared to 45% in 2017. The campaign will run in 2024 using similar timing and refreshed creative.

PURPOSE

To update the Liquid Waste Committee on the 2023 regional “Wipe It, Green Bin It” campaign to reduce the disposal of fats, oils, and grease into the sewer system.

BACKGROUND

The disposal of FOG into the wastewater system is an ongoing issue that costs the region over \$3 million yearly. Fats, oils, and grease harden in the sewer system, leading to clogged sewers and overflows into homes, businesses, and the environment, and resulting in associated maintenance and repair costs. Since 2017, Metro Vancouver has conducted regional “Wipe It, Green Bin It” campaigns asking residents to dispose of grease in their green bin instead of down their sink.

This report provides an overview of the main results of the 2023 “Wipe It, Green Bin It” campaign, as identified in the 2024 Liquid Waste Committee Work Plan.

2023 “WIPE IT, GREEN BIN IT”

The “Wipe It, Green Bin It” campaign was in market from September 25 to November 19, 2023. The campaign aimed to reach residents in the lead-up to Thanksgiving and during a time of heavier cooking related to the season. The campaign materials (Attachment 1) featured dripping grease, oil, or dairy, reminding residents to “Wipe It, Green Bin It” to avoid clogged pipes.

Media Strategy

The campaign targeted Metro Vancouver residents 18+, with particular focus on those aged 25 to 54 who cook or are involved in cooking cleanup. Paid media included a mix of traditional and digital tactics, with placements on YouTube, social media (Facebook/Instagram), a television PSA and in-language content (Fairchild TV), transit advertising (buses and transit shelters), and Google search. Digital placements targeted people with interests in cooking and food services and included the use of two social media influencers, 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 advertising appeared across the region.

Results

The campaign continued to produce solid overall results, with good engagement and steady traffic to the campaign website for more information. A post-campaign survey of residents showed positive trends in understanding and use of correct FOG disposal practices.

Paid Media Placements and Website

- The campaign delivered 32 million impressions — 5 million more than 2022
- Targeted digital tactics delivered 8.4 million impressions across social media, YouTube, and Google Search, reaching over 940,000 residents
- The campaign generated over 1 million video views via YouTube and social media, which led to 750 engagements and 6,800 clicks to the website for more information
- Google search had a high click-through rate, with over 800 clicks to the website for more information, primarily due to searches related to cooking oil disposal
- Posts from two cooking-related social media influencers were well received by their target audiences, generating over 300 engagements and over 125,000 video views
- The television PSAs and in-language TV spots aired over 3000 times
- The campaign website (Reference 1) had over 6,800 visits

Post-Campaign Survey

A post-campaign survey of 1,100 residents was conducted to help assess campaign performance. As this is the fourth survey, it allows for some comparison over time. In general, results show a steady trend towards improved knowledge and practices, compared to the 2017 benchmark survey:

- Over half of residents (64%) now believe that there is no safe amount of FOG to pour down the drain, compared to 51% in 2017, while 33% unsure if FOG can be put down the drain
- About one-third (32%) of residents report putting FOG down the drain when washing dishes and cooking instruments, mainly for convenience, a drop from 45% in 2017
- Fewer residents report putting foods with FOG in them down the drain (31% in 2023 compared to 37% in 2017)

- Residents aged 18 to 34 remain more likely than those 45 and older to dispose of FOG into the drain when washing dishes and cooking instruments (40% vs 28%)
- The campaign reached 18% of residents, with highest campaign awareness among 18 to 34 year-olds, likely due to an increase in the campaign’s use of social media and transit advertising
- Over half of residents (55%) who saw the campaign say they are more likely to dispose of FOG in their green bin

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 and the Township of Langley continue to monitor FOG build-up in two Metro Vancouver pump stations and one municipal pump station in residential hot spot areas. In general, 2023 data shows comparable FOG levels to 2022, 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 2024 CAMPAIGN

The campaign will run again in 2024 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. Post-campaign research shows that additional consideration needs to be given to how to motivate younger residents (18- to 34-year-olds) to adopt better practices. This will likely require development of additional creative materials and use of different media platforms to better reach this group.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The 2023 “Wipe It, Green Bin It” campaign had a budget of \$110,000. These costs were included in the 2023 Liquid Waste Communications Program Budget managed by the External Relations Department.

CONCLUSION

Results of this year’s post-campaign survey and pump station monitoring suggest that the “Wipe It, Green Bin It” campaign, now in its seventh year, is having an impact and shifting behaviours. Campaign results show a solid level of awareness of correct grease disposal practices among residents, with fewer residents reporting that they dispose of FOG down the drain compared to previous surveys. Survey results still show that while disposal practices have improved over the years of the campaign, a noteworthy amount (32%) of residents still put FOG down the drain, with younger residents being the most likely to dispose of these items improperly. About one-third of residents also remain uncertain about whether it is safe to put any amounts of FOG down the drain. Consideration will be given to how best to reach these groups in 2024.

ATTACHMENTS

1. Sample of Campaign Materials
2. “2023 ‘Wipe It, Green Bin It’ Campaign Results” Presentation

REFERENCE

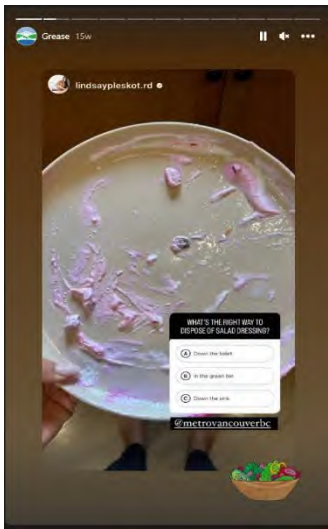
1. Campaign website: wipeitgreenbinit.ca

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Sample of Campaign Materials



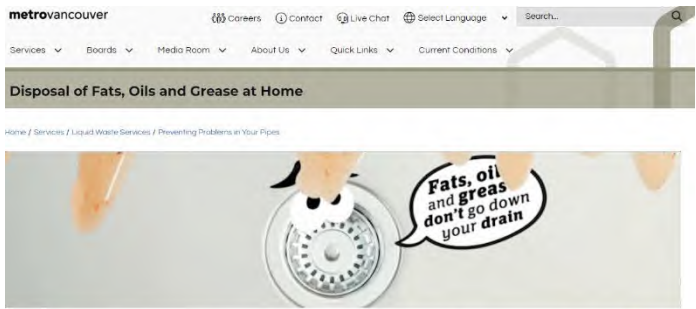
Campaign messaging on bus side



Social media posts by influencers



Transit shelter advertising



Putting fats, oils and grease down the sink can cause a real pain in the drain. As they travel through pipes and sewers, these items harden and pick up other materials along the way. The result: clogged pipes in your home and blocked sewers that can overflow into homes, businesses and the environment.

Campaign website (wipeitgreenbinit.ca)



Social media image

ATTACHMENT 2



Wipe It, Green Bin It outdoor campaign materials

Wipe It, Green Bin It – 2023 Campaign Results

Carol Nicolls

Communications Specialist, Corporate Communications

Liquid Waste Committee - February 14, 2024
65524599

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OVERVIEW

- Residents 25-54
- Sept 25 to Nov 19
- Fats, oils, and grease (FOG)



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RESULTS

Media buy



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RESULTS

Survey

- 64% think there is no safe amount to put down drain (51% in 2017)
- 32% wash FOG down the drain (45% in 2017)



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RESULTS

Survey

- 18-34 year olds more likely to dispose down drain (particularly men)
- 55% who saw campaign are more likely to dispose in green bin



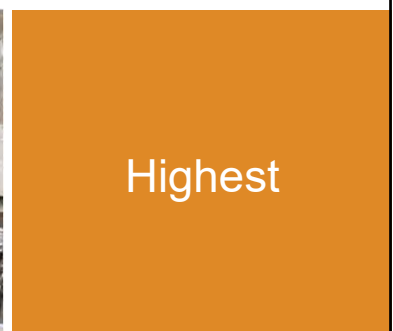
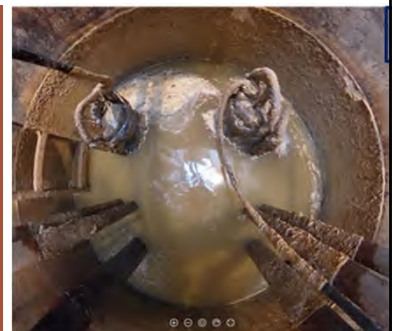
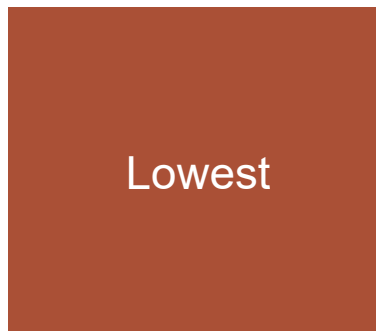
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RESULTS

Pump stations

- Monitoring
- General decrease in FOG levels



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PLANS FOR 2024

- Similar timing & approach
- Refresh creative
- Assess target audience
- Pump station monitoring



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7



To: Liquid Waste Committee

From: George Kavouras, Director, Procurement, Procurement and Real Estate Services
Joan Liu, Division Manager, Collection Systems, Engineering Design and Construction,
Liquid Waste Services

Date: January 26, 2024 Meeting Date: February 14, 2024

Subject: **Award of a Contract Resulting from ITT No. 23-378: Construction Services - Royal Avenue Pump Station Rehabilitation**

RECOMMENDATION

That the GVS&DD Board:

- a) approve award of ITT No. 23-378 for Construction Services – Royal Avenue Pump Station Rehabilitation in the amount of up to \$6,845,655 (exclusive of taxes) to Kenaidan Contracting 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

Kenaidan Contracting Ltd.'s tender was identified as the lowest cost compliant bid, and on that basis it is recommended that GVS&DD Board award ITT No. 23-378 to Kenaidan Contracting Ltd. Kenaidan Contracting Ltd. has a successful track record for completing projects for GVS&DD.

The existing Royal Avenue Pump Station, located in the City of New Westminster, is required to be rehabilitated. The scope of work consists of replacing the station electrical equipment, building an expansion to the Odour Control Building for installation of the new electrical equipment above ground, replacing a short forcemain connecting the pump station discharge header to the Royal Avenue Control Chamber, and replacing the three sewage pumps with three new 50 HP pumps.

ITT No. 23-378 was issued on November 8, 2023. ITT No. 23-378 was issued to the four (4) pre-qualified Tenderers and the procurement was executed in accordance with the terms and condition of Metro Vancouver's *Procurement Policy*. ITT No. 23-378 evaluation team have considered the tenders received, and on that basis recommend that the GVS&DD award ITT No. 23-378 to Kenaidan Contracting Ltd.

PURPOSE

Pursuant to the *GVS&DD Officers and Delegation Bylaw No. 284, 2014 (Bylaw)* and *Board Policy No. FN-006*, procurement contracts which exceed a value of \$5 million require the approval of the GVS&DD Board.

BACKGROUND

The existing Royal Avenue Pump Station, located in the City of New Westminster, is required to be rehabilitated. The scope of work largely consists of replacing the station's electrical equipment, building an expansion to the Odour Control Building for installation of the new electrical equipment above ground, replacing a short forcemain connecting the pump station discharge header to the Royal Avenue Control Chamber, and replacing the three sewage pumps with three new 50 HP pumps. This work will increase the pump station capacity, update aging infrastructure to meet current safety and environmental standards and improve the reliability of the pump station.

PROCUREMENT SUMMARY

RFQ No. 23-002 was issued on June 29, 2023 to prequalify proponents to participate in ITT No. 23-378. Eight proponents responded to RFQ No. 23-002, of those, four were shortlisted and invited to respond to the ITT No. 23-378.

ITT No. 23-378 Submissions

Tenderers	Bid Price (exclusive of taxes)
Graham Infrastructure LP	\$8,885,810
North America Construction Ltd.	\$7,172,082
Kenaidan Contracting Ltd.	\$6,845,655

Metro Vancouver received three tenders. The Tenders were evaluated against each other based on the total tender prices submitted. The lowest tender was submitted by Kenaidan Contracting Ltd. Procurement reviewed the tender submitted by Kenaidan Contracting Ltd. and it was compliant. One of the prequalified proponents, Trittech Group Ltd., declined to tender.

ALTERNATIVES

1. That the GVS&DD Board:
 - a) approve award of ITT No. 23-378 for Construction Services – Royal Avenue Pump Station Rehabilitation in the amount of up to \$6,845,655 (exclusive of taxes) to Kenaidan Contracting 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 January 26, 2024, titled, "Award of a Contract Resulting from ITT No. 23-378: Construction Services - Royal Avenue Pump Station Rehabilitation" for information and direct staff to report back with options for an alternative course of action.

FINANCIAL IMPLICATIONS

Finance has reviewed and confirmed that funding is available from the approved GVS&DD 2024 Annual Budget and 2024 - 2028 Financial Plan.

If the GVS&DD Board approves Alternative 1, a contract will be awarded to Kenaidan Contracting Ltd. in the amount of \$6,845,655 (exclusive of taxes) to complete construction upgrades to the Royal Avenue Pump Station. This amount is within the budget allocated for this project.

Alternative 2 will result in a delay to construction. This delay may increase the risk that the existing pump stations become unreliable because the existing equipment is nearing the end of its service life.

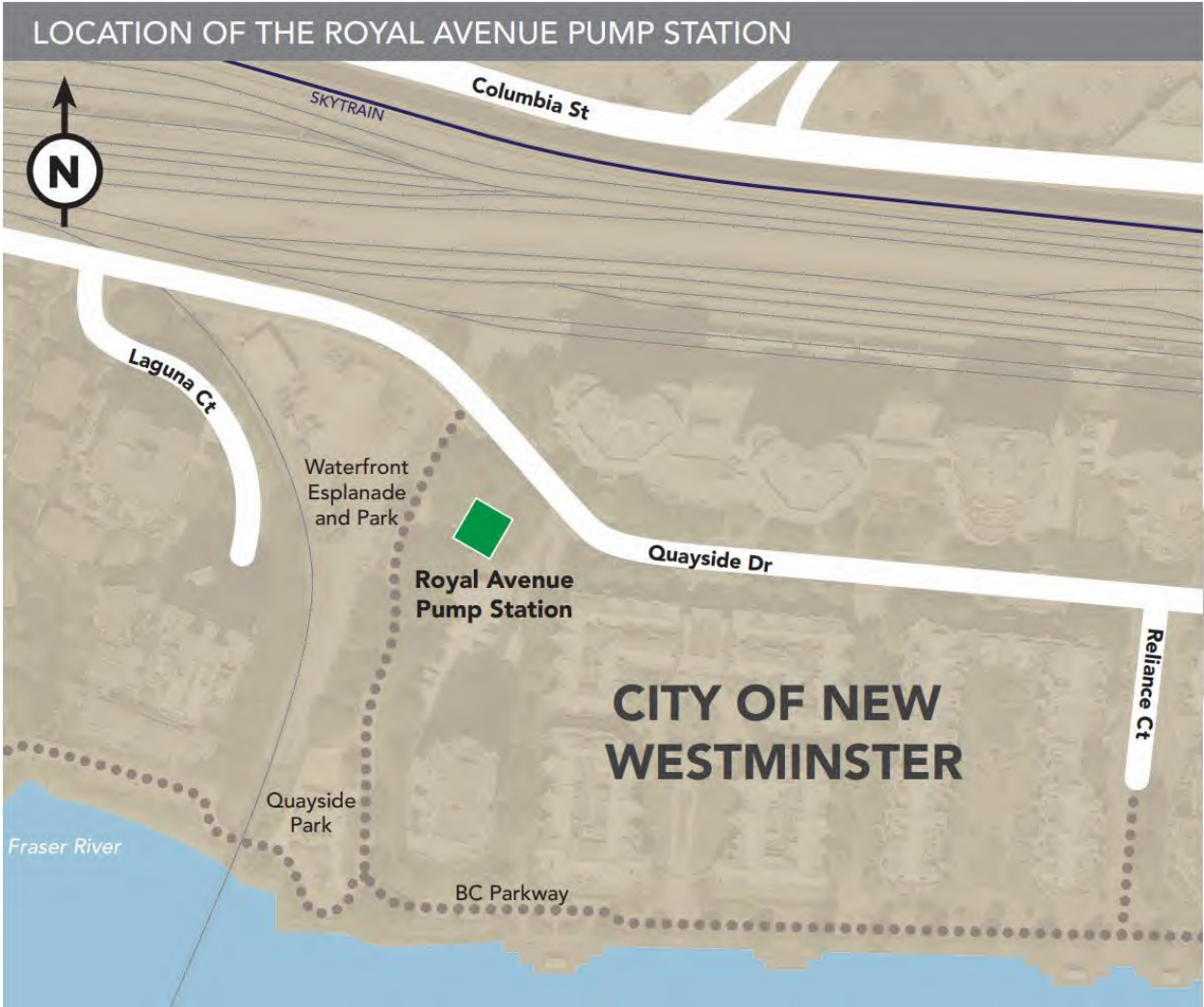
CONCLUSION

It is recommended that GVS&DD Board authorize the Commissioner and the Corporate Officer to approve the award of ITT No. 23-378 for Construction Services – Royal Avenue Pump Station Rehabilitation, in the amount of up to \$6,845,655 (exclusive of taxes) to Kenaidan Contracting Ltd.

ATTACHMENT

1. Location of Royal Avenue Pump Station

65025263



To: Liquid Waste Committee

From: Peter Navratil, General Manager, Liquid Waste Services

Date: January 31, 2024

Meeting Date: February 14, 2024

Subject: **Manager's Report**

RECOMMENDATION

That the Liquid Waste Committee receive for information the report dated January 31, 2024 titled "Manager's Report".

1. Iona Island Wastewater Treatment Plant Projects - Barge Berth

Metro Vancouver is in the preliminary design stage for the Iona Island Wastewater Treatment Plant Projects. Due to the challenging geotechnical conditions in the Fraser River Estuary, extensive ground improvements are required to protect the new plant from future earthquake events and sea level rise. As such, we are exploring a barge berth to bring in materials. This will reduce the estimated ~500 dump trucks a day of material that is anticipated to be needed for some periods of construction. Three sites are being considered for the barge berth.

Metro Vancouver has been actively engaging with residents who live on Deering Island, which is located across from one of the proposed locations. In October 2023, Metro Vancouver hosted an open house to inform residents about the Iona Project and proposed sites for the barge berth. At that open house, and in subsequent conversations, residents of Deering Island expressed concerns related to health and wellbeing. The project team is working to address these concerns by undertaking baseline monitoring and studies, and reviewing materials provided by the residents. The Iona Project has a dedicated communications and engagement team that are in regular contact with all stakeholders, including residents of Deering Island, to ensure their input is acknowledged and being considered.

The Iona team is also actively engaging with Musqueam Indian Band to ensure their input is considered.

The selection criteria will be refined considering input from community, ecological impacts, functionality, costs, and schedule. A third-party consultant is conducting a site selection analysis. The team is also planning mitigation measures for all proposed site locations and will implement air and noise monitoring for the duration of the project.

At this time, no final decision has been made on the location of the barge berth. The team anticipates a decision on the site section for the barge berth early Q2.

2. Metro Vancouver Laboratory – Ongoing Provision of Competent and Reliable Analytical Testing Services to the Region

The Metro Vancouver Laboratory successfully underwent another assessment of technical competence and renewed its Certificate of Accreditation (Attachment 1) with the Canadian Association for Laboratory Accreditation (CALA). CALA is a national organization which accredits various chemical, physical and microbiological testing methods in accordance with an international ISO/IEC 17025 standard. Accreditation is a means of determining the technical competence of a laboratory to perform specific types of testing. It provides formal recognition that a laboratory is competent, impartial and independent. Accreditation attests to the laboratory's ability to consistently produce reliable analytical results and provides assurance of quality to regulators and laboratory customers.

The Certificate of Accreditation was originally granted to Metro Vancouver Laboratory in 1995. To maintain this recognition, Metro Vancouver Laboratory has been re-assessed once every two years to ensure its continued conformance with requirements, and to check that its standard of operation is being maintained. Among other conditions for maintaining CALA accreditation, the laboratory has also been required to participate in relevant proficiency testing programs between reassessments, as a further demonstration of technical competence.

Liquid Waste Services Chemistry and Process Laboratory currently perform over 200,000 analytical tests per year. Results are used for monitoring of drinking water and wastewater quality, treatment plant compliance monitoring and process control. Laboratory customers include Metro Vancouver member municipalities, Liquid Waste Services including Source Control, Residuals Management, and Utility Innovation, Water and Solid Waste Services, Environmental Regulation & Enforcement and Metro Vancouver Parks. In order to maintain its credibility with regulators and customers, Metro Vancouver Laboratory is scheduled for the next CALA assessment in 2025.

3. Testing for Viruses in Wastewater

Metro Vancouver has been collaborating with the B.C. Centre for Disease Control (BCCDC) to test for viruses in the region's wastewater. This collaboration started in spring 2020 with testing of SARS-COV-2 virus (COVID-19). In 2023, the work was expanded to include three additional respiratory viruses: Influenza A, Influenza B and Respiratory Syncytial Virus (RSV). Metro Vancouver collects samples of untreated wastewater at all five regional wastewater treatment plants three times per week. The samples are sent to the BCCDC for virus testing and the results are updated weekly on the Metro Vancouver web site (Reference 1).

Respiratory virus particles are shed in the feces of people who have the virus and can be detected in wastewater. Testing wastewater can help identify if a virus is present and how virus levels may be changing over time. This provides useful information for the health authorities regarding the effectiveness of the virus control measures and is also of interest to residents of the region.

4. Liquid Waste Committee 2024 Work Plan

The updated 2024 Work Plan (Attachment 2) shows the status of the Committee's key priorities for the year.

ATTACHMENTS

1. CALA Certificate of Accreditation
2. 2024 Liquid Waste Committee Work Plan

REFERENCE

1. [Testing for Viruses in Wastewater](#) webpage

65251401

Canadian Association for Laboratory Accreditation Inc.



Certificate of Accreditation

Metro Vancouver - Quality Control Laboratory
Metro Vancouver
1299 Derwent Way
Delta, British Columbia

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Accreditation No.: 1002749
Issued On: 12/4/2023
Accreditation Date: 1/3/2005
Expiry Date: 6/4/2026

A handwritten signature in black ink, appearing to read "K. McKinley", written over a horizontal line.

President and CEO



This certificate is the property of the Canadian Association for Laboratory Accreditation Inc. and must be returned on request; reproduction must follow policy in place at date of issue.
For the specific tests to which this accreditation applies, please refer to the laboratory's scope of accreditation at www.cala.ca.

Liquid Waste Committee 2024 Work Plan

Report Date: February 14, 2024

Priorities	
1st Quarter	Status
2024 Liquid Waste Capital Projects	Complete
2023 Wipe It, Green Bin It Campaign Results	Complete
2023 and 2024 Inflow and Infiltration Communication Initiative	Complete
2023 Microfibres Reduction Campaign Results	Complete
2024 Unflushables Campaign	In Progress
Trucked Liquid Waste from Fraser Valley Regional District	In Progress
Major Project Updates (as applicable)	In Progress
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	In Progress
Contract Approvals as per <i>Procurement and Real Property Contracting Authority Policy</i>	In Progress
Utility Policies (as applicable)	In Progress
2 nd Quarter	
GVS&DD 2023 Year End Financial Performance Results Review	Pending
2024 Financial Performance Reporting and Annual Forecast #1	Pending
2024 Surfactants Reduction Communications Initiative	Pending
2024 Update on Liquid Waste Sustainability Innovation Fund Projects	Pending
Impacts of Provincial Housing Policy Changes to Regional Liquid Waste System	Pending
Major Project Updates (as applicable)	Pending
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Pending
Contract Approvals as per <i>Procurement and Real Property Contracting Authority Policy</i>	Pending
Utility Policies (as applicable)	Pending
3rd Quarter	
Draft Liquid Waste Services 2025 – 2029 Capital Plan	Pending
2024 GVS&DD Environmental Management and Quality Control Annual Report	Pending
2024 Financial Performance Reporting and Annual Forecast #2	Pending
2024 Unflushables Campaign Results	Pending
2024 Our Ocean Thanks You Campaign	Pending
2024 Wipe It, Green Bin It Campaign	Pending
Capital Project Impact Mitigation Framework	Pending
Major Project Updates (as applicable)	Pending
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Pending
Contract Approvals as per <i>Procurement and Real Property Contracting Authority Policy</i>	Pending
Utility Policies (as applicable)	Pending
4th Quarter	
2025 – 2029 Five Year Financial Plan and 2025 Budget & Annual Rates	Pending
Capital Project Impact Mitigation Framework	Pending
2024 Financial Performance Reporting and Annual Forecast #3	Pending
<i>Liquid Waste Management Plan</i> Review and Update: Report on Phase 2	Pending
Major Project Updates (as applicable)	Pending
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Pending
Contract Approvals as per <i>Procurement and Real Property Contracting Authority Policy</i>	Pending
Utility Policies (as applicable)	Pending