

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT (GVS&DD)
BOARD OF DIRECTORS**

REGULAR BOARD MEETING

Friday, January 29, 2021

9:00 A.M.

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

[Membership and Votes](#)

A G E N D A¹

A. ADOPTION OF THE AGENDA

1. January 29, 2021 Regular Meeting Agenda

That the GVS&DD Board adopt the agenda for its regular meeting scheduled for January 29, 2021 as circulated.

B. ADOPTION OF THE MINUTES

1. November 27, 2020 Regular Meeting Minutes

That the GVS&DD Board adopt the minutes for its regular meeting held November 27, 2020 as circulated.

C. DELEGATIONS

D. INVITED PRESENTATIONS

E. CONSENT AGENDA

Note: Directors may adopt in one motion all recommendations appearing on the Consent Agenda or, prior to the vote, request an item be removed from the Consent Agenda for debate or discussion, voting in opposition to a recommendation, or declaring a conflict of interest with an item.

¹ Note: Recommendation is shown under each item, where applicable. All Directors vote unless otherwise noted.

1. LIQUID WASTE COMMITTEE REPORTS

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

That the GVS&DD Board:

- a) approve the award of Phase D - Construction Support, and Phase E – Post-Construction Services in the amount of up to \$2,440,656 (exclusive of taxes) to McMillen Jacobs Associates, for the Northwest Langley Wastewater Treatment Plant River Crossing – Consulting Engineering Services, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

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

That the GVS&DD Board:

- a) approve the award of a contract for an amount of up to \$25,037,800 (exclusive of taxes), to Jacob Bros. Construction Inc./Stuart Olson Construction Ltd., resulting from RFP No. 20-131, for the installation of Gilbert Trunk Sewer No.2 Gilbert Road South Section, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

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

That the GVS&DD Board:

- a) approve the award of a contract for an amount of \$7,220,500 (exclusive of taxes), to Maple Reinders Constructors Ltd. resulting from Tender No. 20-202: Annacis Island Wastewater Treatment Plant Gates and Hydraulic System for the Influent Control Channel Chamber, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

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

That the GVS&DD Board:

- a) approve a contract extension in the amount of up to \$7,339,000 (exclusive of taxes) to the current contractor, Arrow Transportation Systems Inc., for biosolids management resulting from Request for Proposal RFP No. 15-092: Biosolids Soil Design, Fabrication, Marketing, Sales and Distribution, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

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

That the GVS&DD Board:

- a) approve award of a contract in the amount of up to \$16,866,000 (exclusive of taxes) to Arrow Transportation Systems Inc. for biosolids management at the Fraser Valley Aggregates gravel pits, resulting from Standing Request for Expressions of Interest No. 19-283: Biosolids Management, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

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

That the GVS&DD Board:

- a) approve award of a contract in the amount of up to \$10,705,290 (exclusive of taxes) to Arrow Transportation Services Inc. for biosolids management at Copper Mountain Mine, resulting from Standing Request for Expressions of Interest No. 19-283: Biosolids Management, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

2. ZERO WASTE COMMITTEE REPORTS

Note: The following items will be considered by the Zero Waste Committee on January 22, 2021. Any resulting changes to recommendations will be presented on table at the Board meeting.

2.1 Solid Waste Management Plan Independent Consultation and Engagement Panel: Progress Update

That the GVS&DD Board receive for information the report dated January 14, 2021, titled "Solid Waste Management Plan Independent Consultation and Engagement Panel: Progress Update".

2.2 Alternative Fuel and Recyclables Recovery Interim Processing Strategy

That the GVS&DD Board approve initiating procurement for the processing of approximately 60,000 tonnes per year of small load waste to recover recyclables and alternative fuel.

F. ITEMS REMOVED FROM THE CONSENT AGENDA

G. REPORTS NOT INCLUDED IN CONSENT AGENDA

H. MOTIONS FOR WHICH NOTICE HAS BEEN GIVEN

I. OTHER BUSINESS

1. GVS&DD Board Committee Information Items and Delegation Summaries

J. BUSINESS ARISING FROM DELEGATIONS

K. RESOLUTION TO CLOSE MEETING

Note: The Board 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 GVS&DD Board close its regular meeting scheduled for January 29, 2021 pursuant to the *Community Charter* provisions, Section 90 (1) (e) and (m) as follows:

“90 (1) A part of a board meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:

- (e) the acquisition, disposition or expropriation of land or improvements, if the board or committee considers that disclosure could reasonably be expected to harm the interests of the regional district; and
- (m) a matter that, under another enactment, is such that the public may be excluded from the meeting.”

L. RISE AND REPORT (Items Released from Closed Meeting)

M. ADJOURNMENT/CONCLUSION

That the GVS&DD Board adjourn/conclude its regular meeting of January 29, 2021.

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
BOARD OF DIRECTORS**

Minutes of the Regular Meeting of the Greater Vancouver Sewerage and Drainage District (GVS&DD) Board of Directors held at 11:06 a.m. on Friday, November 27, 2020 in the 28th Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia.

MEMBERS PRESENT:

Burnaby, Chair, Director Sav Dhaliwal
 North Vancouver City, Vice Chair Director
 Linda Buchanan*
 Anmore, Director John McEwen
 Burnaby, Director Pietro Calendino*
 Burnaby, Director Mike Hurley*
 Coquitlam, Director Craig Hodge*
 Coquitlam, Director Richard Stewart*
 Delta, Director George Harvie*
 Delta, Director Bruce McDonald*
 Electoral Area A, Director Jen McCutcheon*
 Langley City, Director Gayle Martin*
 Langley Township, Director Jack Froese*
 Langley Township, Director Kim Richter*
 Maple Ridge, Director Mike Morden*
 New Westminster, Director Jonathan Coté*
 North Vancouver District, Director Lisa Muri*
 Pitt Meadows, Director Bill Dingwall*
 Port Coquitlam, Director Brad West*
 Port Moody, Director Rob Vagramov*

Richmond, Director Malcolm Brodie*
 Richmond, Director Harold Steves*
 Surrey, Director Linda Annis*
 Surrey, Director Doug Elford*
 Surrey, Director Laurie Guerra*
 Surrey, Director Doug McCallum*
 Surrey, Director Mandeep Nagra*
 Surrey, Director Allison Patton*
 Vancouver, Director Christine Boyle*
 Vancouver, Director Adriane Carr*
 Vancouver, Director Melissa De Genova*
 Vancouver, Director Lisa Dominato*
 Vancouver, Director Colleen Hardwick*
 Vancouver, Director Kennedy Stewart*
 Vancouver, Director Michael Wiebe*
 West Vancouver, Director Mary-Ann Booth*
 White Rock, Director Darryl Walker*
 Commissioner Jerry W. Dobrovolny
 (Non-voting member)

MEMBERS ABSENT:

None

OTHERS PRESENT:

Belcarra, Councillor Carolina Clark
 Bowen Island, Councillor David Hocking*

Lions Bay, Mayor Ron McLaughlin
 Tsawwassen, Chief Ken Baird*

STAFF PRESENT:

Lauren Cichon, Legislative Services Coordinator, Board and Information Services
 Chris Plagnol, Corporate Officer

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

A. ADOPTION OF THE AGENDA

1. November 27, 2020 Regular Meeting Agenda

It was MOVED and SECONDED

That the GVS&DD Board adopt the agenda for its regular meeting scheduled for November 27, 2020 as circulated.

CARRIED

B. ADOPTION OF THE MINUTES

1. October 30, 2020 Regular Meeting Minutes

It was MOVED and SECONDED

That the GVS&DD Board adopt the minutes for its regular meeting held October 30, 2020 as circulated.

CARRIED

C. DELEGATIONS

No items presented.

D. INVITED PRESENTATIONS

No items presented.

E. CONSENT AGENDA

At the request of Directors, the following items were removed from the Consent Agenda, in the following order, for consideration under Section F. Items Removed from the Consent Agenda:

- 3.3 Establishment of a Task Force to Consider Reinstatement of Burrard Inlet Environmental Action Program – Fraser River Estuary Management Program (BIEAP – FREMP) Partnership
- 2.1 Award of Contract Resulting from Standing Request for Expression of Interest SRFEIO No. 19-283: Biosolids Management

It was MOVED and SECONDED

That the GVS&DD Board adopt the recommendations in the following items as presented in the November 27, 2020 GVS&DD Board consent agenda:

- 1.1 Coffee Cup Revolution Funding Support
- 1.2 Metro Vancouver Solid Waste Facility Names
- 3.1 Project Delivery Best Practice Response – Project Estimating Framework
- 3.2 2020 Budget - Status of Reserves

CARRIED

The items and recommendations referred to above are as follows:

1.1 Coffee Cup Revolution Funding Support

Report dated October 29, 2020 from Andrew Marr, Director of Solid Waste Planning, Solid Waste Services, seeking GVS&DD Board approval of funding for the Binner's Project Coffee Cup Revolution event for a three-year period.

Recommendation:

That the GVS&DD Board approve an agreement between the Greater Vancouver Sewerage and Drainage District and MakeWay Charitable Society in support of the Binner's Project Coffee Cup Revolution for a three-year period in the amount of \$10,000 per year, commencing January 1, 2021, and ending December 31, 2023.

Adopted on Consent

1.2 Metro Vancouver Solid Waste Facility Names

Report dated October 30, 2020, from Stephanie Liu, Communications and Education Coordinator, Solid Waste Services, updating the GVS&DD Board on new names for Metro Vancouver's network of solid waste facilities, including two new facilities currently under construction in Coquitlam and Surrey.

Recommendation:

That the GVS&DD Board receive for information the report dated October 30, 2020, titled "Metro Vancouver Solid Waste Facility Names".

Adopted on Consent

3.1 Project Delivery Best Practice Response – Project Estimating Framework

Report dated November 6, 2020, from Cheryl Nelms, General Manager, Project Delivery, providing the GVS&DD Board an update on the work of the Project Delivery Department regarding the development and deployment of Project Delivery Best Practice in the area of project cost estimating.

Recommendation:

That the GVS&DD Board receive for information the report dated November 6, 2020, titled "Project Delivery Best Practice Response – Project Estimating Framework".

Adopted on Consent

3.2 2020 Budget - Status of Reserves

Report dated October 27, 2020, from Joe Sass, Director, Financial Planning and Operations, Financial Services, seeking GVS&DD Board approval for additional reserve applications and transfers to those previously approved by the Board in November 1, 2019 and projecting the reserve balances of operating, discretionary and statutory reserves for 2020.

Recommendation:

That the GVS&DD Board approve the application and transfer of reserves related to the expenditures and provisions as set out in Schedule 1 of the report dated October 27, 2020 titled "2020 Budget - Status of Reserves".

Adopted on Consent

F. ITEMS REMOVED FROM THE CONSENT AGENDA

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

Report dated October 30, 2020, from Roy Moulder, Director, Purchasing and Risk Management, Financial Services, and Lillian Zaremba, Program Manager, Utility Residuals Management, Liquid Waste Services, advising the GVS&DD Board of the results of SRFEI No. 19-283: Biosolids Management, and recommending the GVS&DD Board to approve the award of a contract in an amount of up to \$7,548,000 (exclusive of taxes) to SYLVIS Environmental, for the beneficial use of biosolids at OK Ranch.

It was MOVED and SECONDED

That the GVS&DD Board:

- a) approve award of a contract in the amount of up to \$7,548,000 (exclusive of taxes) to SYLVIS Environmental Services Inc. for biosolids management at OK Ranch, resulting from Standing Request for Expressions of Interest No. 19-283: Biosolids Management, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

CARRIED

3.3 Establishment of a Task Force to Consider Reinstatement of Burrard Inlet Environmental Action Program – Fraser River Estuary Management Program (BIEAP – FREMP) Partnership

Report dated November 5, 2020, from Andjela Knezevic-Stevanovic, Director, Environmental Management and Quality Control, Liquid Waste Services, providing the GVS&DD Board an overview of the benefits of the coordinated environmental management in the region, and seeking GVS&DD Board endorsement to invite senior government agencies' participation in a multi-stakeholder task force to consider feasibility and merits of reinstating the regional environmental collaboration partnership.

Members were requested to consider a revised recommendation that includes local First Nations, in addition to the other listed parties, to receive letters regarding participation in the proposed Task Force.

It was MOVED and SECONDED

That the GVS&DD Board write letters to:

- a) the provincial Ministers of Environment and Climate Change Strategy and Forests, Lands, Natural Resource Operations and Rural Development;
 - b) the federal Ministers of Environment and Climate Change Canada and Fisheries and Oceans Canada;
 - c) the Vancouver Fraser Port Authority; and
 - d) First Nations with shared territories encompassing Burrard Inlet or the Fraser River, as recorded in British Columbia's Consultative Areas Database;
- to gauge interest in participating in a task force to consider the feasibility of reinstating the Burrard Inlet Environmental Action Program – Fraser River Estuary Management Program Partnership, or establishment of an equivalent multi-stakeholder partnership for coordinated environmental management in the Metro Vancouver region.

CARRIED

G. REPORTS NOT INCLUDED IN CONSENT AGENDA

1.1 *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 340, 2020 – Fraser Sewerage Area – Township of Langley*

Report dated October 6, 2020, from Brent Burton, Division Manager, Policy Planning and Analysis, Liquid Waste Services, seeking GVS&DD Board approval to amend the Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018 to include the property located at 1241 200 Street in the Township of Langley within the FSA.

It was MOVED and SECONDED

That the GVS&DD Board give first, second and third reading to the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 340, 2020*.

CARRIED

It was MOVED and SECONDED

That the GVS&DD Board pass, and finally adopt the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 340, 2020*.

CARRIED

H. MOTIONS FOR WHICH NOTICE HAS BEEN GIVEN

No items presented.

I. OTHER BUSINESS

1. GVS&DD Board Committee Information Items and Delegation Summaries

It was MOVED and SECONDED

That the GVS&DD Board receive for information the GVS&DD Board Committee Information Items and Delegation Summaries, dated November 27, 2020.

CARRIED

J. BUSINESS ARISING FROM DELEGATIONS

No items presented.

K. RESOLUTION TO CLOSE MEETING

It was MOVED and SECONDED

That the GVSDD Board close its regular meeting scheduled for November 27, 2020 pursuant to the *Community Charter* provisions, Section 90 (1) (c), (g) and (i) as follows:

“90 (1) A part of a board meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:

- (c) labour relations or other employee relations;
- (g) litigation or potential litigation affecting the regional district; and
- (i) the receipt of advice that is subject to solicitor-client privilege, including communications necessary for that purpose.”

CARRIED

L. RISE AND REPORT (Items Released from Closed Meeting)

No items presented.

M. ADJOURNMENT/CONCLUSION

It was MOVED and SECONDED

That the GVS&DD Board adjourn its regular meeting of November 27, 2020.

CARRIED

(Time: 11:27 a.m.)

CERTIFIED CORRECT

Chris Plagnol, Corporate Officer

Sav Dhaliwal, Chair

42438162 FINAL

To: Liquid Waste Committee

From: Roy Moulder, Director, Purchasing and Risk Management, Financial Services
Marie-Liesse Marc, Director, Major Projects - Northwest Langley Wastewater Treatment Projects, Project Delivery

Date: January 5, 2021 Meeting Date: January 21, 2021

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

RECOMMENDATION

That the GVS&DD Board:

- a) approve the award of Phase D - Construction Support, and Phase E – Post-Construction Services in the amount of up to \$2,440,656 (exclusive of taxes) to McMillen Jacobs Associates, for the Northwest Langley Wastewater Treatment Plant River Crossing – Consulting Engineering Services, subject to final review by the Commissioner; and
 - b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

In June 2018, GVS&DD Board approved the award of a contract for design and construction engineering services for a new sewer forcemain crossing of the Fraser River, at Northwest Langley Wastewater Treatment Plant (NLWWTP). The crossing will convey sewage from Maple Ridge and Pitt Meadows across the Fraser River to the upgraded NLWWTP. The first three phases were related to the design of the crossing were awarded to McMillen Jacobs Associates for \$4,218,203 in June 2018.

This report recommends awarding the final two phases of the work, related to construction management, to McMillen Jacobs Associates in the amount of up to \$2,440,656 (exclusive of taxes). The total design and construction management services awarded to McMillen Jacobs Associates will be \$7,376,360, which includes \$717,501 worth of change orders and escalation. The proposed additional phases are currently within the approved construction budget.

PURPOSE

This report is to request authorization by the GVS&DD Board to award Phases D and E, Construction Support and Post-Construction Services to the consultant, McMillen Jacobs Associates for the Northwest Langley Wastewater Treatment Plant River Crossing in an amount of up to \$2,440,656 (exclusive of taxes). McMillen Jacobs Associates has successfully completed the preliminary design revalidation. Detailed design, and proposal support & design finalization services will be completed in January 2021.

BACKGROUND

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

The Fraser Servicing study identified significant costs savings by re-directing all the sewage generated in Pitt Meadows and Maple Ridge, across the Fraser River to an upgraded wastewater treatment plant in the Township of Langley. These flows currently are pumped 25km to Annacis Island Wastewater Treatment Plant for treatment. The Northwest Langley Wastewater Treatment Project includes a river crossing, upgraded treatment plant, pump station/storage tank and an outfall.

The twin 900 mm diameter steel pipe crossing will be 1.6 km long and will be drilled 35 m under the river. There is also a 525m long land section that will connect the river crossing to the new Golden Ears Pump Station currently under construction.

This report is being brought forward to the Liquid Waste Committee to consider a recommendation to the GVS&DD Board to award Phase D, Construction Support and Phase E, Post-Construction Services to McMillen Jacobs Associates in order to continue with the consulting services for the NLWWTP River Crossing Project.

PROJECT DESCRIPTION

In 2018, GVS&DD issued RFP No. 18-127 – Consulting Engineering Services for the Northwest Langley Wastewater Treatment Plant River Crossing Project, which was comprised of the following phases:

- Phase A – Preliminary Design Revalidation;
- Phase B – Detailed Design;
- Phase C – Proposal Support Services & Completion of Detailed Design;
- Phase D – Construction Support; and
- Phase E – Post Construction Services.

McMillen Jacobs Associates (MJA) was the successful proponent and the GVS&DD Board authorized award of Phase A, B and C in June of 2018. A contract was issued in the amount of \$4,218,203. There have been \$670,123 worth of change orders approved to date, which covered additional geotechnical and environmental investigation, design coordination and alignment modifications. In addition, there was \$47,378 of contractually allowed escalation. The current contract value is now \$4,935,704.

Construction support services includes management of the construction of the new river crossing on Metro Vancouver’s behalf. The post construction support services include final testing and production of record drawings and O&M manuals. The Proposal price was increased by \$128,056 to account for contractually agreed hourly rate escalation.

Phase	Description	Proposal Price	Escalated Price
D	Construction Support Services	\$1,963,186	\$2,064,687
E	Post Construction Services	\$349,414	\$375,969
	Total	\$2,312,600	\$2,440,656

ALTERNATIVES

1. That the GVS&DD Board:
 - a) approve the award of Phase D - Construction Support, and Phase E – Post-Construction Services in the amount of up to \$2,440,656 (exclusive of taxes) to McMillen Jacobs Associates, for the Northwest Langley Wastewater Treatment Plant River Crossing – Consulting Engineering Services, subject to final review by the Commissioner; and
 - b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

2. That the GVS&DD Board not approve the award of Phase D and E to McMillen Jacobs Associates resulting from RFP No. 18-127: Consulting Services for the Northwest Langley Wastewater Treatment Plant River Crossing Project and direct staff to report back to the GVS&DD Board with options for an alternate course of action.

FINANCIAL IMPLICATIONS

If the GVS&DD Board approves Alternative 1, an amount of up to \$2,440,656 (exclusive of taxes) will be added to the contract with McMillen Jacobs Associates, bringing the total contract award to \$7,376,360, including cumulative change orders. This work was contemplated in the originally envisioned scope and schedule of RFP No. 18-127. The proposed fee can be accommodated within the overall budget.

The GVS&DD Board has the choice not to proceed with Alternative 1, but staff will need further direction in relation to the project. Alternative 2 will result in delays to both the river crossing project and the new wastewater treatment plant construction.

CONCLUSION

Request for Proposal No. 18-127 was issued for consulting services for the Northwest Langley Wastewater Treatment Plant project. A contract was executed for Phase A – Preliminary Design Revalidation, Phase B - Detailed Design, and Phase C – Proposal Support Services and Completion of Detailed Design to McMillen Jacobs Associates in an amount of up to \$4,218,203 (exclusive of taxes). Since award, \$717,501 in change orders and escalation have been approved, increasing the total contract value to \$4,935,704. Award of Phase D – Construction Support and Phase E – Post Construction Engineering Services and escalation, are now needed in order for the project to commence construction in 2021.

It is recommended that the GVS&DD Board authorize the Commissioner and Corporate Officer to amend the contract with McMillen Jacobs Associates to award Phase D and E, in the amount of up to \$2,440,656 (exclusive of taxes). This amendment will bring the present contract value to \$7,376,360 (exclusive of taxes).

41974583

To: Liquid Waste Committee

From: Roy Moulder, Director, Purchasing and Risk Management, Financial Services
Colin Meldrum, Director, Engineering Design and Construction, Liquid Waste Services

Date: January 7, 2021 Meeting Date: January 21, 2021

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

RECOMMENDATION

That the GVS&DD Board:

- a) approve the award of a contract for an amount of up to \$25,037,800 (exclusive of taxes), to Jacob Bros. Construction Inc./Stuart Olson Construction Ltd., resulting from RFP No. 20-131, for the installation of Gilbert Trunk Sewer No.2 Gilbert Road South Section, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

EXECUTIVE SUMMARY

RFP No. 20-131 was issued for the installation of Gilbert Trunk Sewer No. 2 – Gilbert Road South Section. RFP No. 20-131 to five (5) prequalified entities and closed on September 3, 2020. Jacob Bros. Construction Inc. and Stuart Olson Construction Ltd. provided a joint submission and were ranked highest overall and offered the lowest fee. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute a contract with Jacob Bros. Construction Inc./Stuart Olson Construction Ltd, a joint submission, in an amount of up to \$25,037,800 (exclusive of taxes).

The Gilbert Trunk Sewer in the City of Richmond is in a deteriorated condition. The Gilbert Trunk Sewer No. 2 will replace the old infrastructure and provide additional capacity for future growth.

PURPOSE

This report is to advise the GVS&DD Board of the results of RFP No. 20-131: Installation of Gilbert Trunk Sewer No. 2 Gilbert Road South Section and to recommend award of the contract in an amount of up to \$25,037,800 (exclusive of taxes) to Jacob Bros. Construction Inc./Stuart Olson Construction Ltd.

BACKGROUND

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

This report is being brought forward to the Liquid Waste Committee to consider a recommendation to the GVS&DD Board to award a contract for the Installation of Gilbert Trunk Sewer No. 2 Gilbert Road South Section project.

PROJECT DESCRIPTION

The 10 km-long Gilbert Trunk Sewer (GTS) that services the City of Richmond was found to be in a state of corrosion and in need of rehabilitation. A high level of maintenance is also required to address significant build-up of grease and dirt, which reduces the pipe capacity. In order to facilitate future repairs, efficient maintenance of the existing sewer, and meet the long-term capacity needs in the City of Richmond, it is necessary to construct Gilbert Trunk Sewer No. 2 (GTS2).

Installation of sections of the GTS2 completed to date total 5.2km comprising the sewer north of Blundell Road (see map in Attachment 1). Design of the GTS2 Central and South sections are now complete.

As a result of a Request for Qualifications (RFQ No. 17-376) that was publicly advertised on Metro Vancouver’s and BC Bid websites, five experienced contractors were invited to respond to a Request for Proposal (RFP No. 20-131) for the construction of the South Section. A separate competition for the Central Section will be issued to the shortlisted five contractors at a later date.

The RFP closed on September 3, 2020 and four contractors responded as shown below:

Proponent	Total Proposal Price (exclusive of taxes)
Jacob Bros. Construction Inc./Stuart Olson Construction Ltd.	\$25,037,800
Clearway Construction Inc.	\$33,623,000
JJM Construction Ltd	\$36,269,250
BD Hall Construction Corp.	\$46,764,924

The submissions were evaluated based on a maximum of 50 points for the technical components and 50 points for the commercial considerations. When both technical and commercial evaluations were combined for each proponent, the joint submission by Jacob Bros. and Stuart Olson was ranked highest overall. Evaluation of the proposals was based on the selection criteria identified in the RFP. The technical component of the proposals was evaluated by staff from Liquid Waste Services, Engineering Design and Construction Division and the commercial considerations were evaluated by staff from the Purchasing and Risk Management Division, Financial Services Department.

ALTERNATIVES

1. That the GVS&DD Board authorize:
 - a) approve the award of a contract for an amount of up to \$25,037,800 (exclusive of taxes), to Jacob Bros. Construction Inc./Stuart Olson Construction Ltd. resulting from RFP No. 20-131, for the Installation of Gilbert Trunk Sewer No.2 Gilbert Road South Section, subject to final review by the Commissioner; and

- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.
2. That the GVS&DD Board terminate RFP No. 20-131: Installation of Gilbert Trunk Sewer No. 2 – Gilbert Road South Section and direct staff to report back to the GVS&DD Board with options for an alternate course of action.

FINANCIAL IMPLICATIONS

If the GVS&DD Board approves Alternative 1, a contract will be awarded to Jacob Bros. Construction Inc./Stuart Olson Construction Ltd. in the amount of up to \$25,037,800 (exclusive of taxes) to complete the project work. There are sufficient funds in the budget for this phase to complete construction of this section of the project.

The GVS&DD Board has the choice not to proceed with Alternative 1, but staff will need further direction in relation to the project. Alternative 2 will result in delays to the project schedule that will impact the ability to deliver the project in a timely fashion. The existing sewer is in a degraded condition, and will continue to deteriorate, and will eventual fail resulting in discharge of liquid waste to the environment and damage to the roadway.

CONCLUSION

RFP No. 20-131 was issued for the installation of Gilbert Trunk Sewer No. 2 – Gilbert Road South Section. The joint submission from Jacob Bros. Construction Inc. and Stuart Olson Construction Ltd. is ranked first overall. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute a contract with Jacob Bros. Construction Inc./Stuart Olson Construction Ltd. in an amount of up to \$25,037,800 (exclusive of taxes).

The Gilbert Trunk Sewer No. 2 is a critical piece of infrastructure required to address aging degraded infrastructure and increase capacity of the system in the City of Richmond.

Attachment

Map of Gilbert Road Sewer Project

42680763



To: Liquid Waste Committee

From: Roy Moulder, Director, Purchasing and Risk Management, Financial Services
Colin Meldrum, Director, Engineering Design and Construction, Liquid Waste Services

Date: January 5, 2021 Meeting Date: January 21, 2021

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

RECOMMENDATION

That the GVS&DD Board:

- a) approve the award of a contract for an amount of \$7,220,500 (exclusive of taxes), to Maple Reinders Constructors Ltd. resulting from Tender No. 20-202: Annacis Island Wastewater Treatment Plant Gates and Hydraulic System for the Influent Control Channel Chamber, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

EXECUTIVE SUMMARY

Tender No. 20-202 was issued for the Annacis Island Wastewater Treatment Plant (AIWWTP) Gates and Hydraulic System for the Influent Control Channel Chamber to three (3) prequalified entities and closed on November 13, 2020. Maple Reinders Constructors Ltd. provided a compliant bid with the lowest fee. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute a contract with Maple Reinders Constructors Ltd., the lowest price bid, in an amount of \$7,220,500 (exclusive of taxes).

The AIWWTP Gates and Hydraulic System for the Influent Control Channel Chamber contract will mitigate transient pressure surges within the AIWWTP Influent Pump station that could cause damage to the upstream sewer infrastructure.

PURPOSE

This report is to advise the GVS&DD Board of the results of Tender No. 20-202: AIWWTP Gates and Hydraulic System for the Influent Control Channel Chamber and to recommend award of the contract in an amount of \$7,220,500 (exclusive of taxes) to Maple Reinders Constructors Ltd.

BACKGROUND

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

This report is being brought forward to the Liquid Waste Committee to consider a recommendation to the GVS&DD Board to award a contract for the AIWWTP Gates and Hydraulic System for the Influent Control Channel Chamber.

PROJECT DESCRIPTION

The Annacis Island Wastewater Treatment Plant Transient Mitigation and Outfall project identified a transient issue; if there is a power outage, the Influent Pump Station (IPS) pumps will abruptly stop, causing a transient pressure surge that could cause damage to the upstream sewer infrastructure. To mitigate this issue, it is necessary to improve the AIWWTP IPS gates and hydraulic system. The work involves replacing the four old existing influent gates and hydraulic controls for improved gate modulation and influent flow control.

As a result of a Request for Qualifications (RFQ No. 20-222) that was publicly advertised on Metro Vancouver’s and BC Bid websites, three (3) experienced contractors were shortlisted and invited to respond to a Tender (Tender No. 20-202) to improve the AIWWTP IPS gates and hydraulic system.

The Tender closed on November 13, 2020 and all three (3) contractors responded as shown below:

Tenderer	Total Tender Price (exclusive of taxes)
Maple Reinders Constructors Ltd.	\$7,220,500
Kenaidan Contracting Ltd.	\$8,750,519
Bennett Mechanical Installations (2001) Ltd	\$10,227,000

The bids were reviewed for completeness by members of the engineering project team and Purchasing and Risk Management Division, Financial Services Department. Maple Reinders Constructors Ltd. has been identified as the lowest compliant bid.

ALTERNATIVES

1. That the GVS&DD Board authorize:
 - a) the award of a contract for an amount of \$7,220,500 (exclusive of taxes), to Maple Reinders Constructors Ltd. resulting from Tender No. 20-202: Annacis Island Wastewater Treatment Plant Gates and Hydraulic System for the Influent Control Channel Chamber, subject to final review by the Commissioner; and
 - b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

2. That the GVS&DD Board terminate Tender No. 20-202: Annacis Island Wastewater Treatment Plant Gates and Hydraulic System for the Influent Control Channel Chamber and direct staff to report back to the GVS&DD Board with options for an alternate course of action.

FINANCIAL IMPLICATIONS

If the GVS&DD Board approves Alternative 1, a contract will be awarded to Maple Reinders Constructors Ltd. in the amount of \$7,220,500 (exclusive of taxes) to complete the project work. The tender submitted by Maple Reinders Constructors Ltd. is the lowest compliant bid and is within the budget allocated for the project.

The GVS&DD Board has the choice not to proceed with Alternative 1, but staff will need further direction in relation to the project. Alternative 2 will delay the project, and the system risks that this project is meant to address will remain.

CONCLUSION

Tender No. 20-202 was issued to three (3) shortlisted contractors for the AIWWTP Gates and Hydraulic System for the Influent Control Channel Chamber. Maple Reinders Constructors Ltd. was identified as the lowest compliant bid. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute a contract with Maple Reinders Constructors Ltd. in an amount of up to \$7,220,500 (exclusive of taxes).

42394326

To: Liquid Waste Committee

From: Roy Moulder, Director, Purchasing and Risk Management, Financial Services
Lillian Zaremba, Program Manager, Utility Residuals Management, Liquid Waste Services

Date: December 8, 2020 Meeting Date: January 21, 2021

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

RECOMMENDATION

That the GVS&DD Board:

- a) approve a contract extension in the amount of up to \$7,339,000 (exclusive of taxes) to the current contractor, Arrow Transportation Systems Inc., for biosolids management resulting from Request for Proposal RFP No. 15-092: Biosolids Soil Design, Fabrication, Marketing, Sales and Distribution, subject to final review by the Commissioner; and
- b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

EXECUTIVE SUMMARY

The *Liquid Waste Management Plan* requires Metro Vancouver to beneficially use biosolids. Metro Vancouver biosolids have been beneficially used since 2010 as an ingredient in landscaping soil that is fabricated, marketed, sold and distributed in the region. The existing contract with Arrow Transportation Systems Inc. (Arrow) resulting from Request for Proposal (RFP) No. 15-092 includes an option to extend by up to five years. Metro Vancouver is satisfied with Arrow's performance and would like to continue with this option for managing biosolids in the region. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute the contract amendment to Arrow for an amount of up to \$7,339,000 (exclusive of taxes).

PURPOSE

This report is to request the GVS&DD Board to approve a contract extension resulting from RFP No. 15-092 in an amount of up to \$7,339,000 (exclusive of taxes) to Arrow for the fabrication, marketing, sales and distribution of landscaping soil containing biosolids.

BACKGROUND

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

In 2016, Metro Vancouver awarded a five-year contract to Arrow, with an option to extend by up to five years, resulting from RFP No. 15-092 Biosolids Soil Design, Fabrication, Marketing, Sales and Distribution. The initial award value was less than \$5 million and did not require the approval of the

Board of Directors. Metro Vancouver would like to exercise the option to extend through a contract amendment for the additional five (5) years, which has a value greater than \$5 million.

This report is being brought forward to the Liquid Waste Committee to consider a recommendation to the GVS&DD Board to approve the extension of the existing contract with Arrow to continue fabrication, marketing, sales and distribution of soil containing biosolids.

DESCRIPTION OF SERVICES

The scope of work includes the management and beneficial use of Class A biosolids generated at the Annacis Island Wastewater Treatment Plant. The biosolids will be used as an ingredient in landscaping soil fabricated at Ecowaste Landfill, in Richmond, BC.

Metro Vancouver biosolids have been beneficially used for soil fabrication at Ecowaste Landfill since 2010. Soil fabrication using Metro Vancouver biosolids is currently conducted by Arrow under a contract that was awarded in 2016. Biosolids are blended with woody material (sawdust or aged bark) and sand to create high-quality landscaping soil suitable for flower beds, shrubs and trees, and turf. Since 2010, Arrow has beneficially used over 85,000 tonnes of Metro Vancouver Class A biosolids at Ecowaste Landfill to fabricate landscaping soil for use in the region. The services under the contract extension will continue the fabrication of soil for the local landscaping market. Under the terms of the contract, a portion of this soil is provided at no cost to Metro Vancouver and its member jurisdictions for use in their projects, such as parks, green spaces, and landscaping around municipal infrastructure and buildings. Soil requests from member jurisdictions and internal Metro Vancouver orders have been steadily increasing over the past five years.

The contract resulting from RFP No. 15-092 includes an option to extend by up to five years if defined review criteria are met to the satisfaction of staff from Liquid Waste Services' Utility Residuals Management division, and if both parties opt to continue with this management option. Staff have been satisfied with Arrow's performance according to the review criteria and wish to extend the existing contract. Managing biosolids in the region is a key element of Liquid Waste Services' performance metrics.

The term of the extension is five years. The award value of \$7,339,000 is based on biosolids quantities specified in RFP No. 15-092 and subsequent negotiations. The rate per tonne is comparable to the cost of other Metro Vancouver biosolids beneficial use projects and is significantly less than the cost to dispose of biosolids in a landfill, which is not a beneficial use. Metro Vancouver is mandated by the *Liquid Waste Management Plan* to beneficially use biosolids and recover nutrients or energy.

The cost of hauling biosolids to the site is not included in the award. Hauling services are provided under an existing contract awarded to Arrow Transportation Systems Inc. through competition No. RFP 19-112: Utility Residuals Management Hauling Services.

ALTERNATIVES

- 1) That the GVS&DD Board:
 - a) approve a contract extension in the amount of up to \$7,339,000 (exclusive of taxes) to the current contractor, Arrow Transportation Systems Inc., for biosolids management resulting from Request for Proposal RFP No. 15-092: Biosolids Soil Design, Fabrication, Marketing, Sales and Distribution, subject to final review by the Commissioner; and
 - b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

- 2) That the Liquid Waste Committee receive for information the report dated December 8, 2020, titled "Extension of Contract Resulting from RFP No. 15-092: Biosolids Soil Design, Fabrication, Marketing, Sales and Distribution" and direct staff to report back to the GVS&DD Board with options for an alternate course of action.

FINANCIAL IMPLICATIONS

If the Board approves Alternative 1, a contract extension will be awarded to Arrow in the amount of up to \$7,339,000 (exclusive of taxes). This amount is within the Liquid Waste Services operating budget allocated for this work.

Under Alternative 2, staff will need to seek other options for the management of biosolids. Metro Vancouver is mandated by the *Liquid Waste Management Plan* to beneficially use biosolids and recover nutrients or energy. Limited opportunities are available for beneficial use of biosolids that need to be continuously removed from wastewater treatment plants. If an alternative beneficial use option cannot be secured, biosolids will need to be disposed in a landfill, resulting in additional costs of up to \$1,200,000 over the term.

CONCLUSION

The contract resulting from RFP No. 15-092: Biosolids Soil Design, Fabrication, Marketing, Sales and Distribution includes an option to extend. Staff would like to amend the existing contract with a five-year extension to Arrow to continue to fabricate soil containing biosolids at the Ecowaste Landfill in Richmond, BC. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to amend the contract with Arrow Transportation Systems Inc. in an amount of up to \$7,339,000 (exclusive of taxes).

41647940

To: Liquid Waste Committee

From: Roy Moulder, Director, Purchasing and Risk Management, Financial Services
Lillian Zaremba, Program Manager, Utility Residuals Management, Liquid Waste Services

Date: January 7, 2021 Meeting Date: January 21, 2021

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

RECOMMENDATION

That the GVS&DD Board:

- a) approve award of a contract in the amount of up to \$16,866,000 (exclusive of taxes) to Arrow Transportation Systems Inc. for biosolids management at the Fraser Valley Aggregates gravel pits, resulting from Standing Request for Expressions of Interest No. 19-283: Biosolids Management, subject to final review by the Commissioner; and
 - b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

The *Liquid Waste Management Plan* requires Metro Vancouver to beneficially use biosolids. Metro Vancouver biosolids have been beneficially used at Fraser Valley Aggregates (FVA) properties since 2018 to reclaim exhausted gravel pits for agricultural use. Arrow Transportation Systems Inc. (Arrow) submitted a proposal to beneficially use biosolids to reclaim neighbouring FVA gravel pits in Abbotsford in response to the Standing Request for Expressions of Interest (SRFEOI) No. 19-283: Biosolids Management. Arrow has demonstrated successful management of biosolids for Metro Vancouver and proposed a reasonable price. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute the contract to Arrow for an amount of up to \$16,866,000 (exclusive of taxes) for a term of five (5) years.

PURPOSE

This report is to advise the GVS&DD Board of the results of SRFEOI No. 19-283: Biosolids Management, and to recommend award of a contract in an amount of up to \$16,866,000 (exclusive of taxes) to Arrow Transportation Systems Inc., for the beneficial use of biosolids at the FVA gravel pits in Abbotsford.

BACKGROUND

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

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

DESCRIPTION OF SERVICES

The scope of work includes the management and beneficial use of Class A and B biosolids generated at the Annacis Island, Lulu Island, Lions Gate, North Shore and Iona Island Wastewater Treatment Plants (WWTPs). The biosolids will be mixed with woodchips and excavated material to create productive soil that will be used to reclaim land disturbed by gravel extraction and create farmland at several FVA properties in Abbotsford, BC. The project will beneficially use biosolids from the stockpile at Iona Island WWTP for which there are few beneficial use opportunities as they are low in nutrients. The stockpile biosolids will be used to improve the physical characteristics of the soil created at the FVA properties, while the other types of biosolids will provide nutrients for plant growth.

Management of Metro Vancouver biosolids at other FVA properties has been conducted by Arrow. Since 2018, Arrow has received 27,600 tonnes of Metro Vancouver biosolids at FVA's Pit 15 in Abbotsford for reclamation of the exhausted gravel pit to arable farm land. The current proposal is to expand the area being reclaimed at Pit 15, as well as to reclaim several neighbouring gravel pits.

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

Arrow's proposal demonstrated their experience and qualifications in managing biosolids. The term is five (5) years, concluding on December 31, 2025. The amount of \$16,866,000 is based on biosolids quantities and site applications specified in Arrow's proposal, and subsequent negotiations. The rate per tonne is comparable to the cost of other Metro Vancouver biosolids beneficial use projects and is significantly less than the cost to dispose of biosolids in a landfill, which is not a beneficial use.

The cost of hauling biosolids to the site is not included in the award. Hauling services are provided under an existing contract awarded to Arrow Transportation Systems Inc. through competition No. RFP 19-112: Utility Residuals Management Hauling Services.

ALTERNATIVES

1. That the GVS&DD Board:
 - a) approve award of a contract in the amount of up to \$16,866,000 (exclusive of taxes) to Arrow Transportation Systems Inc. for biosolids management at the Fraser Valley Aggregates gravel pits, resulting from Standing Request for Expressions of Interest No. 19-283: Biosolids Management, subject to final review by the Commissioner; and
 - b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.

2. That the Liquid Waste Committee receive for information the report dated January 7, 2021, titled "Award of Contract Resulting from Standing Request for Expression of Interest SRFEI No. 19-283: Biosolids Management at Fraser Valley Aggregates" and direct staff to report back to the GVS&DD Board with options for an alternate course of action.

FINANCIAL IMPLICATIONS

If the Board approves Alternative 1, a contract will be awarded to Arrow in the amount of up to \$16,866,000 (exclusive of taxes). This amount is within the Liquid Waste Services operating budget allocated for this work.

Under Alternative 2, staff will need to seek other options for the management of biosolids. Limited opportunities are available for beneficial use of biosolids that need to be continuously removed from WWTPs. If an alternative beneficial use option cannot be secured, biosolids will need to be disposed in a landfill, resulting in additional costs of up to \$1,957,000 over the course of this contract.

CONCLUSION

Arrow Transportation Systems Inc. submitted a proposal under SRFEI No. 19-283: Biosolids Management. The proposed services will beneficially use biosolids to reclaim land at FVA's Gravel Pits. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute a contract with Arrow Transportation Systems Inc. in an amount of up to \$16,866,000 (exclusive of taxes).

42488734

To: Liquid Waste Committee

From: Roy Moulder, Director, Purchasing and Risk Management, Financial Services
Lillian Zaremba, Program Manager, Utility Residuals Management, Liquid Waste Services

Date: December 8, 2020 Meeting Date: January 21, 2021

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

RECOMMENDATION

That the GVS&DD Board:

- a) approve award of a contract in the amount of up to \$10,705,290 (exclusive of taxes) to Arrow Transportation Services Inc. for biosolids management at Copper Mountain Mine, resulting from Standing Request for Expressions of Interest No. 19-283: Biosolids Management, subject to final review by the Commissioner; and
 - b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

The *Liquid Waste Management Plan* requires Metro Vancouver to beneficially use biosolids. Metro Vancouver biosolids have been beneficially used for reclamation at Copper Mountain Mine since 1995. Arrow Transportation Services Inc. (Arrow) submitted a proposal to continue the beneficial use of biosolids at Copper Mountain Mine in response to the Standing Request for Expressions of Interest (SRFEOI) No. 19-283: Biosolids Management. Arrow has demonstrated successful management of biosolids for Metro Vancouver and proposed a reasonable price. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute the contract to Arrow for the amount of up to \$10,705,290 (exclusive of taxes) for a term of six (6) years.

PURPOSE

This report is to advise the GVS&DD Board of the results of SRFEOI No. 19-283: Biosolids Management, and to recommend award of a contract in an amount of up to \$10,705,290 (exclusive of taxes) to Arrow, for the beneficial use of biosolids at Copper Mountain Mine.

BACKGROUND

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

This report is being brought forward to the Liquid Waste Committee to consider a recommendation to the GVS&DD Board to authorize the award of a contract to Arrow for the management of biosolids at Copper Mountain Mine.

DESCRIPTION OF SERVICES

The scope of work includes the management and beneficial use of Class A biosolids generated at the Annacis Island and North Shore Wastewater Treatment Plants (WWTPs) for use at Copper Mountain Mine near Princeton, BC. The biosolids will be blended with feedstocks to create a topsoil for reclaiming and restoring waste rock piles. Restoration work will involve re-vegetating with native plants to create wildlife habitat.

Metro Vancouver biosolids have been beneficially used at Copper Mountain Mine from 1995 to 2009 and from 2018 to present to reclaim waste rock piles and tailings resulting from mining activities. The current contract for biosolids beneficial use is projected to expire by March of 2021. The services under the new contract will continue reclamation and restoration of waste rock piles at Copper Mountain Mine.

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

Arrow's proposal demonstrated their experience and qualifications in managing biosolids. The award amount of up to \$10,705,290 is for a six (6) year term with rates based on biosolids quantities and site applications specified in Arrow's proposal and subsequent negotiations. The rate per tonne is comparable to the cost of other Metro Vancouver biosolids beneficial use projects and is significantly less than the cost to dispose of biosolids in a landfill, which is not a beneficial use.

The cost of hauling biosolids to the site is not included in the award. Hauling services are provided under an existing contract awarded to Arrow Transportation Systems Inc. through competition No. RFP 19-112: Utility Residuals Management Hauling Services.

ALTERNATIVES

1. That the GVS&DD Board:
 - a) approve award of a contract in the amount of up to \$10,705,290 (exclusive of taxes) to Arrow for biosolids management at Copper Mountain Mine, resulting from Standing Request for Expressions of Interest No. 19-283: Biosolids Management, subject to final review by the Commissioner; and
 - b) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the award should proceed.
2. That the Liquid Waste Committee receive for information the report dated December 8, 2020, titled "Award of Contract Resulting from Standing Request for Expression of Interest SRFEOI No. 19-283: Biosolids Management at Copper Mountain Mine" and direct staff to report back to the GVS&DD Board with options for an alternate course of action.

FINANCIAL IMPLICATIONS

If the Board approves Alternative 1, a contract will be awarded to Arrow in the amount of up to \$10,705,290 (exclusive of taxes) for a six (6) year term. This amount is within the Liquid Waste Services operating budget allocated for this work.

Under Alternative 2, staff will need to seek other options for the management of biosolids. Metro Vancouver is mandated by the *Liquid Waste Management Plan* to beneficially use biosolids and recover nutrients or energy. Limited opportunities are available for beneficial use of biosolids that need to be continuously removed from WWTPs. If an alternative beneficial use option cannot be secured, biosolids will need to be disposed in a landfill, resulting in additional costs of up to \$2,333,000 over the six-year term.

CONCLUSION

Arrow Transportation Services Inc. submitted a proposal under SRFOI No. 19-283: Biosolids Management. The proposed services will beneficially use biosolids to reclaim waste rock piles at Copper Mountain Mine near Princeton, BC. It is recommended that the GVS&DD Board authorize the Commissioner and the Corporate Officer to award and execute a contract with Arrow Transportation Services Inc. for an amount of up to \$10,705,290 (exclusive of taxes).

42507239

To: Zero Waste Committee

From: Sarah Evanetz, Division Manager, Strategy and Stakeholder Relations, Solid Waste Services

Date: January 14, 2021 Meeting Date: January 22, 2021

Subject: **Solid Waste Management Plan Independent Consultation and Engagement Panel: Progress Update**

RECOMMENDATION

That the GVS&DD Board receive for information the report dated January 14, 2021, titled "Solid Waste Management Plan Independent Consultation and Engagement Panel: Progress Update".

EXECUTIVE SUMMARY

The Solid Waste Management Plan Independent Consultation and Engagement Panel (Consultation and Engagement Panel) was convened in October 2020 to support a robust consultation and engagement process for the development of an updated solid waste management plan. The Consultation and Engagement Panel has since held four meetings to discuss engagement and provide guidance on the development of a draft engagement program. A pre-engagement phase including opportunities for stakeholders to connect directly with the Consultation and Engagement Panel will occur over the next few months in advance of an engagement program being brought forward to the Zero Waste Committee and Board for consideration. A separate First Nations engagement strategy outlining a government-to-government engagement approach will be developed. Guidelines for Consultation and Engagement Panel communications with First Nations and stakeholders have been developed by the Consultation and Engagement Panel and are included as an attachment to this report.

PURPOSE

To update the Zero Waste Committee on progress made to date by the Solid Waste Management Plan Independent Consultation and Engagement Panel.

BACKGROUND

As per the June 12, 2020 report to the Zero Waste Committee and Board, the Consultation and Engagement Panel was formed to advise staff and the Board on consultation and engagement on the development of a new solid waste management plan. A comprehensive engagement program involving a broad range of stakeholders and perspectives will be a critical element in the development of an updated solid waste management plan. Recognizing this, Metro Vancouver has taken the unique approach of convening a panel of engagement experts to guide the development and implementation of a robust and inclusive engagement process. The Consultation and Engagement Panel is made up of four engagement experts with a range of experiences and expertise within the field, and representing a range of regional perspectives. Members are listed in Attachment 1. This report provides an update on the Consultation and Engagement Panel's work up to January 2021.

42765995

MEETINGS AND PROGRESS

Meeting Summaries

The Consultation and Engagement Panel met monthly since it was convened in October 2020. The following is a brief overview of the work completed during the first four meetings:

Meeting #1: October 27, 2020

- Learned about panel members' experiences and expertise
- Shared perspectives around meaningful engagement and professional experience

Meeting #2: November 23, 2020

- Received a high-level overview of solid waste and recycling management system in the region, including implementation of the current solid waste management plan and roles of various public sector, private sector and community groups, as well as First Nations
- Reviewed engagement on the current solid waste management plan, and discussed learnings
- Reviewed Provincial guidelines for engagement on solid waste management plans
- Discussed key audiences, including stakeholders and communities of interest as well as First Nations
- Developed Guidelines for Communicating with First Nations and Stakeholders (Attachment 2)

Meeting #3: December 14, 2020

- Drafted guiding principles and objectives of engagement
- Discussed pre-engagement strategies
- Discussed Technical and Public Advisory Committee(s), as required by the Province
- Discussed phases of engagement, audiences, and engagement methods to guide development of a draft engagement program
- Tested interactive online engagement tools including a ranking survey, word cloud exercise and cardstorming activity

Meeting #4: January 12 2021

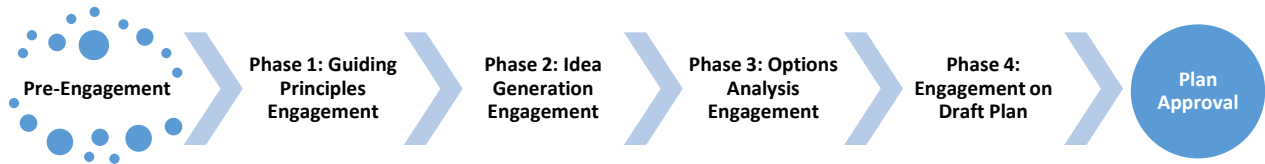
- Reviewed detailed pre-engagement methods and approach
- Reviewed draft public engagement program

Guidelines for Communicating with First Nations and Stakeholders

The Consultation and Engagement Panel established a process for First Nations and stakeholders to communicate with and provide feedback to the panel. This includes written submissions and scheduled meetings involving all panel members at project milestones. The goal is to allow an open, flexible and fair process of communication that provides First Nations and stakeholders equitable opportunities to participate and provide feedback. In addition, the process ensures all panelists review and receive the same submissions or information. Full details are in Attachment 2, Guidelines for Communicating with First Nations and Stakeholders.

Public Engagement Program Outline

The following public engagement program phases have been reviewed with the Consultation and Engagement Panel and a detailed engagement program will be developed following the pre-engagement phase.



Pre-Engagement Phase

The pre-engagement phase will help understand the preferences of key stakeholder groups and communities of interest. Metro Vancouver will receive feedback on engagement program design via a number of approaches including online surveys, phone interviews and opportunities to connect directly with the Consultation and Engagement Panel.

First Nations Engagement Strategy

A separate First Nations engagement strategy outlining a government-to-government information sharing and engagement approach will be developed. While First Nations and Urban Indigenous peoples will be invited to participate in all engagement activities as part of the public engagement program, this separate First Nations Strategy will specifically address a government-to-government engagement approach with First Nations. This separate strategy is stipulated in the Provincial *A Guide to Solid Waste Management Planning*.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

Consultation and Engagement Panel activities and meetings are accommodated within the annual Solid Waste Services budget.

CONCLUSION

The Consultation and Engagement Panel has held four meetings to discuss approaches to engagement and provide input and guidance into the development of a draft engagement program for the solid waste management plan update that will be provided to the Zero Waste Committee and Board for consideration. A separate First Nations engagement strategy will be developed.

Attachments

1. Consultation and Engagement Panel Members
2. Guidelines for Communicating with First Nations and Stakeholders

42765995

Solid Waste Management Plan Independent Consultation and Engagement Panel

Membership List
Panel Chair: Andrea Reimer , Adjunct Professor and Practitioner Lead at the UBC School of Public Policy & Global Affairs; Instructor in the Practice of Engagement at Simon Fraser University, former City of Vancouver Deputy Mayor and Councillor.
Cheryl Brooks , President and CEO, Indigenuity Consulting Group, strategist, negotiator, facilitator and expert in Aboriginal/Indigenous Relations in the private and public sectors.
Peter Fassbender , former Member of the Legislative Assembly for Surrey-Fleetwood; former Langley City Mayor and Councillor, former Vice-Chair of Translink's Mayor's Council.
Veronika Bylicki , Executive Director and Co-founder, CityHive (not-for-profit on a mission to transform the way that young people are engaged in civic processes), engagement innovator, community builder and sustainability strategist.
Director Froese , Zero Waste Committee Chair, will act as Zero Waste Committee liaison to the Consultation and Engagement Panel and will attend meetings.

Guidelines for Communicating with First Nations and Stakeholders **Solid Waste Management Plan Independent Consultation and Engagement Panel**

Metro Vancouver is committed to an open, flexible and fair process for the development of a new solid waste management plan. To ensure such a process, First Nations and stakeholders need to have an equitable opportunity to participate in and provide feedback into the consultation and engagement process, including the work of the Independent Consultation and Engagement Panel (Panel).

At each milestone in the Panel's work (e.g. the development of the Consultation and Engagement Program), First Nations and stakeholders will have the opportunity to communicate with the Panel through a range of mechanisms, such as in-person or virtual meetings or via submissions in writing. All formal feedback to the Panel will be recorded and reported to the Metro Vancouver Board.

To support the principle of equitable opportunity for engagement with the Panel, Panel members are encouraged to apply the following guidelines:

- Avoid where possible engagement with First Nations or stakeholders on anything related to solid waste management or the development of a new solid waste management plan outside of formal processes put in place to engage with the Panel;
- Disclose any potential or perceived conflicts of interest or existing relationships with First Nations and stakeholders that have an interest in solid waste management in the region directly to the Panel Chair; and
- Advise the Panel Chair of any communications with First Nations or stakeholders related to solid waste management or the development of a new solid waste management plan outside of formal processes.

Updated: Nov. 18, 2020

To: Zero Waste Committee

From: Terry Fulton, Senior Project Engineer, Solid Waste Services

Date: January 6, 2021 Meeting Date: January 22, 2021

Subject: **Alternative Fuel and Recyclables Recovery Interim Processing Strategy**

RECOMMENDATION

That the GVS&DD Board approve initiating procurement for the processing of approximately 60,000 tonnes per year of small load waste to recover recyclables and alternative fuel.

EXECUTIVE SUMMARY

With the development of the United Boulevard and Central Surrey Recycling and Waste Centres, approximately 60,000 tonnes per year of material delivered by small vehicles (small load waste) will be available for recovery of alternative fuel and recyclables. Recovering alternative fuel and recyclables from this material will reduce greenhouse gas (GHG) emissions through the offset of fossil fuels and recycling of materials such as metals. This report recommends proceeding with an interim approach for managing the small load waste by processing it at one or more existing private facilities. The GHG emission reductions resulting from the project are expected to be up to 20,000 tonnes per year. Metro Vancouver will continue to plan for/explore the feasibility of developing a permanent facility that has the potential to reduce GHG emission by up to 85,000 tonnes per year with the interim approach, providing important information in support of that work.

PURPOSE

To seek GVS&DD Board approval to initiate procurement for processing small load waste.

BACKGROUND

In March 2019, the GVS&DD Board authorized staff to engage a consultant to assist in the design and business casing of a pilot initiative to recover recyclables and alternative fuel from municipal solid waste, and directed staff to report back with a concept plan and procurement model.

Subsequent reports to the Zero Waste Committee updated the project scope to focus the work on small load waste from Metro Vancouver facilities to maximize the GHG benefit, material recovery and processing ease. This report provides a progress update on the project and recommends initiating procurement for an interim solution to recover recyclables and alternative fuel product from small load waste while continuing to proceed with planning for a permanent solution.

ALTERNATIVE FUEL AND RECYCLABLES RECOVERY PROJECT

Metro Vancouver receives approximately 120,000 tonnes per year of small load waste at regional solid waste facilities. Small load waste is typically delivered by residents or contractors in hand-unloaded vehicles and is composed primarily of wood (approximately 60%) and other building materials. This material is currently disposed, but represents an opportunity to extract recyclables and create a low carbon alternative fuel product through processing. Compared to regular garbage as an alternative fuel source, the small load waste has:

- higher material recovery potential;
- higher GHG emission reduction potential;
- broader potential use as an alternative fuel; and
- lower processing costs.

Wood-based alternative fuels can be used in facilities such as cement plants, biomass-to-energy plants and district energy systems. Approximately 60,000 tonnes per year of small load waste will be available to be segregated from the waste stream upon completion of the United Boulevard and Central Surrey Recycling and Waste Centres by early 2022. The full 120,000 tonnes per year will become available over time as the regional solid waste system is modernized, allowing separation of the small load waste from other waste at all regional facilities.

In May 2020, Metro Vancouver engaged a consultant to undertake the alternative fuel and recyclables recovery project business case. The project includes developing a concept design, evaluating the business model, and analyzing potential impacts of a Metro Vancouver-owned facility that would process small load material to extract recyclables and create an alternative fuel product. This initiative has the potential to reduce GHG emissions through the replacement of fossil fuels and recyclable materials such as metals.

Interim Approach

Work on planning for a permanent facility is underway, but given the long time lines to develop a permanent facility, an interim solution for managing small load waste has been identified. The project team has concluded that there are local private construction and demolition recycling facilities capable of processing the expected 60,000 tonnes per year of small load waste. Market sounding has indicated that existing construction and demolition material processors in the region are currently willing and capable of receiving this material. Some of the existing facilities have a relatively low recovery rate (portion of inbound material recycled rather than landfilled); therefore, ensuring maximum recovery from the small load waste will be a key aspect of the procurement process. This interim approach will provide valuable information to assess the feasibility of a permanent facility in a number of areas:

- Contract requirements to maximize alternative fuel and recyclable material recovery;
- Typical recovery rates of alternative fuel and recyclables from small load waste;
- Costs associated with the transport, processing, and storage of material;
- Ability of end-users to accept and effectively utilize the fuel product produced; and
- Regulatory requirements to utilize alternative fuel recovered from the small load waste.

The development of a permanent facility is included in the Solid Waste Services capital budget, and planning/feasibility assessment for a permanent facility will continue in parallel to implementing an interim solution.

Emission Reductions

Each tonne of small load-based alternative fuel would emit approximately 0.9 tonnes less CO₂ equivalent compared to the amount of coal necessary to generate the same amount of energy. Assuming 40% of 60,000 tonnes of small load feedstock could be recovered, this could result in approximately 20,000 tonnes per year of GHG emission reduction. A high performance permanent facility could increase both the recovery rate and the amount of material processed, thereby increasing the GHG reduction to up to 85,000 tonnes per year. The interim approach of contracting with existing construction and demolition material processors will provide important information on GHG emission reduction potential.

Climate Action Committee Feedback

At the November 15, 2019 Zero Waste Committee meeting, staff was requested to seek input from the Climate Action Committee on the Alternative Fuel and Recyclables Recovery Project prior to bringing the matter forward to the Board for final consideration. Feedback on this report from the January 15, 2021 Climate Action Committee meeting will be communicated at the January 22, 2021 Zero Waste Committee meeting.

ALTERNATIVES

1. That the GVS&DD Board approve initiating procurement for the processing of approximately 60,000 tonnes per year of small load waste to recover recyclables and alternative fuel.
2. That the Zero Waste Committee receive for information the report dated January 6, 2021, titled "Alternative Fuel and Recyclables Recovery Interim Processing Strategy" and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

If the Board approves Alternative 1 and authorizes initiating procurement, a procurement process will be started to manage the small load waste. The net cost of processing the small load waste will depend on the outcome of the procurement process. Separately, processing small load waste will reduce landfill requirements and thus reduce landfill disposal costs. Award of a contract will require Board approval and as such information on the financial implications of processing the small load waste will be provided at that time. Under Metro Vancouver's *Carbon Price Policy*, GHG emission reductions can be valued at up to \$150 per tonne CO₂ equivalent. The expected value of the emission reductions under the *Carbon Price Policy* will be reported back to the Board as part of the financial implications of entering into a contract for processing the small load waste.

CONCLUSION

Small load waste represents an opportunity to decrease regional waste disposal and reduce GHG emissions by extracting recyclables and creating a low-carbon alternative to traditional fuel sources. Metro Vancouver continues to explore the development of a permanent facility to recover recyclables and alternative fuel from small load waste. In the interim, in advance of a permanent facility being developed, existing construction and demolition processors have indicated they are able to receive and process a portion of this material. Staff recommend initiating a procurement process to manage approximately 60,000 tonnes per year of small load waste following the completion of the United Boulevard and Central Surrey Recycling and Waste Centres.

COMMITTEE INFORMATION ITEMS AND DELEGATION SUMMARIES

Greater Vancouver Sewerage and Drainage District
Board Meeting Date – Friday, January 29, 2021

This information item, listing recent information received by committee, is provided for the MVHC Board's information. Please access a complete PDF package [here](#).

Liquid Waste Committee – January, 21, 2021

Delegation Summaries:

No delegations presented

Information Items:

5.2 Inflow and Infiltration Action Strategy

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