



**IN CAMERA**

**REPORT**

Report Date: January 18, 2021  
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Meeting Date: February 9, 2021

TO: Vancouver City Council

FROM: General Manager of Finance, Risk and Supply Chain Management in consultation with the General Manager of Engineering Services

SUBJECT: Funding Application to Infrastructure Canada (Adaptation, Resilience and Disaster Management) – Burrard Pump Station Upgrade

***IN CAMERA RATIONALE***

This report is recommended for consideration by Council on the In Camera agenda as it relates to Section 165.2(1) of the Vancouver Charter:

(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 city;  
(k) negotiations and related discussions respecting the proposed provision of an activity, work or facility that are at their preliminary stages and that, in the view of the Council, could reasonably be expected to harm the interests of the city if they were held in public.

***RECOMMENDATION***

- A. THAT Council approve a funding application to the Investing in Canada Infrastructure Program (ICIP) – COVID Resilience Infrastructure Stream – Adaptation, Resilience and Disaster Mitigation Sub-stream for the Burrard Pump Station Upgrade project;

FURTHER THAT subject to the successful outcome of this application, Council direct staff to set up a separate multi-year capital project budget for the Burrard Pump Station Upgrade by reallocating previously approved funding from the 2019-2022 Pump Station Renewals & Upgrades program and incorporating the awarded ICIP funding.

- B. THAT if Recommendation A above is approved by Council, City staff be authorized to disclose Council's in camera decision (as set out in Recommendation A above) to Emergency Management BC in support of the City's application for the funds described in this Report.

### ***REPORT SUMMARY***

The City's recalibrated 2019-2022 Capital Plan funding strategy contemplates securing of senior government contributions toward a number of Council priorities.

The proposed Burrard Pump Station Upgrade in this funding application was part of the recalibrated 2019-2022 Capital Plan for Pump Station Renewals and Upgrades.

This report seeks Council's approval in support of a funding application for the Burrard Pump Station Upgrade project (the "Project") to the Investing in Canada Infrastructure Program (ICIP) – COVID Resilience Infrastructure Stream – Adaptation, Resilience and Disaster Mitigation Sub-stream.

### ***COUNCIL AUTHORITY/PREVIOUS DECISIONS***

December 8, 2020: Council approved the 2021 Capital and Operating Budget, which included the multi-year capital budget for the 2019-2022 Pump Station Renewals & Upgrades Program.

### ***CITY MANAGER'S/GENERAL MANAGER'S COMMENTS***

The Acting City Manager, the General Manager of Finance, Risk and Supply Chain Management and the General Manager of Engineering Services recommend approval of the report.

### ***REPORT***

#### ***Background/Context***

In 2018, the province and the Federal government signed the Integrated Bilateral Agreement for the Investing in Canada Infrastructure Program (ICIP). ICIP cost-shares infrastructure investments between the governments of Canada and British Columbia, local governments and other partners.

Due to COVID-19, this agreement was amended to include the creation of a new COVID-19 resilience infrastructure stream (CVRIS) to support pandemic response and economic recovery efforts. The CVRIS stream supports several project categories including disaster mitigation and adaptation infrastructure.

The Adaptation, Resilience & Disaster Mitigation (ARDM) program (the "Program") is a sub-stream under the CVRIS. The Program will fund flood mitigation infrastructure projects that will support an increase in structural capacity and/or increased natural capacity to mitigate and

adapt to climate change impacts, natural disasters and/or extreme weather events with the intent of reducing, or negating, the effects of flooding.

The CVRIS ARDM program is focused solely on structural and natural infrastructure projects to address the impacts of flooding and flood-related hazards. Emergency Management BC will administer the program in collaboration with the Ministry of Municipal Affairs and Housing.

The Federal government and the province are investing up to s.17(1) in this ARDM intake to support infrastructure projects.

The maximum grant available under the Program is 100% of eligible project costs (80% and 20% from federal and provincial contributions, respectively). The application deadline was January 11, 2021. The application process requires a Council resolution in support of the application and the Project. Submission of Council resolution can be after the deadline but before a final decision by ARDM on the application. ARDM's final decision is expected in spring of 2021.

### ***Strategic Analysis***

There is a limit of one application per municipality for the Program. City staff reviewed projects that meet the requirements of the Program and concluded that the Burrard Pump Station Upgrade Project is most suitable because it involves an infrastructure upgrade that reduces the effects of flooding. The Project can also be substantially completed before end of 2021, which is a requirement of the Program.

The Project will provide flood resiliency improvements to the existing Burrard Pump Station. The primary flood resiliency improvements include addition of an electrical control building located above the City's Flood Construction Level (FCL), relocation or flood proofing of all critical operational equipment, and the addition of a back-up generator to ensure continuous power to the Burrard Pump Station during and after a flood event.

The Burrard Pump Station is located in downtown Vancouver underneath the Cordova Street Viaduct. It is in a low-lying area of Vancouver and is at risk of flooding from sea level rise and extreme flooding events due to climate change. Pump station infrastructure should be able to withstand major floods to minimize the impact on public health and environmental pollution. If the infrastructure is not flood resilient, there is a risk of loss of service to residents and businesses, sewage backups to properties, and/or releases of untreated sewage into the environment. Without operation of the City's pump stations, sanitary waste flow would discharge into surrounding water bodies causing localized sewage flooding, public health hazards, and economic damage to ocean dependent industries.

Barring unforeseen circumstances, confirmation of funding is likely in spring-2021. If so, construction should be able to start in Jun-2021 and substantially completed by Dec-2021.

### ***Financial Implications***

The estimated total project costs is s.17(1), of which s.17(1) is considered eligible costs as defined by the Program. The City is seeking up to s.17(1) (100% of the total eligible project costs) in Program funding as follows:

Project Costs		s.17(1)
Eligible Costs		
Other costs including COV overheads		
<b>Total Project Costs</b>		
Funding Sources		
CVRIS ARDM Program (100% of Eligible Costs)		
City – funded from the Multi-Year Capital Project Budget for Pump Station Renewals & Upgrades program		
<b>Total Project Cost</b>		

Upon successful outcome of this application for funding, staff will set up a separate multi-year capital project budget for the Burrard Pump Station Upgrade. Reallocating s.17(1) of previously approved funding from the 2019-2022 Pump Station Renewals & Upgrades program and replacing s.17(1) of previously approved debenture funding with the awarded ICIP funding.

**CONCLUSION**

The proposed Burrard Pump Station Upgrade is a priority. A 2018 condition assessment of the Burrard Pump Station by Water Street Engineering (WSE) identified that flooding to the FCL would submerge critical electrical equipment and render the station inoperable. This would result in large remediation costs and sanitary sewage overflows to Vancouver Harbour until repairs are made. Therefore, Council’s support is sought for the City’s application to the Program for funding the Project as described in this report.

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