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Date: 1/7/2019 4:45:01 PM

Subject: Memo - Metro Vancouver Shutdown of First Narrows Crossing Water Main

Attachments: Memo - Metro Vancouver Isolation Test January 2019.pdf

Greetings Mayor and Council,

Please see the attached memo from Jerry Dobrovolny. A short summary of the memo is as follows:

- ☐ Metro Vancouver will be conducting a test on their water main valves tomorrow morning
- ☐ The duration of the test will be about 36 hours.
- ☐ Water is normally received at the City from Metro from 2 locations: First Narrows and Second Narrows. During the test, First Narrows will be shut down and the City will be supplied solely from Second Narrows.
- ☐ Metro does not foresee any major issues with water distribution.

If you have any questions, please feel free to contact Jerry Dobrovolny at 604-873-7331 or jerry.dobrovolny@vancouver.ca.

Best,
Sadhu

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MEMORANDUM

January 7, 2019

TO: Mayor and Council

CC: Sadhu Johnston, City Manager
Paul Mochrie, Deputy City Manager
Lynda Graves, Administration Services Manager, City Manager's Office
Rena Kendall-Craden, Civic Engagement and Communications Director
Katrina Leckovic, City Clerk
Neil Monckton, Chief of Staff, Mayor's Office
Alvin Singh, Communications Director, Mayor's Office
Anita Zaenker, Chief of Staff, Mayor's Office
Cheryl Nelms, Deputy General Manager, Engineering Services
Darrell Reid, General Manager, Vancouver Fire and Rescue Services and
Emergency Management
Malcolm Bromley, General Manager, Vancouver Board of Parks and Recreation

FROM: Jerry Dobrovoly
General Manager, Engineering Services

SUBJECT: Metro Vancouver Shutdown of First Narrows Crossing Water Main

Metro Vancouver is planning a maintenance shutdown of the water main at the First Narrows crossing. This shutdown is planned to take place tomorrow January 8 at 5:00 am, and conclude on Wednesday January 9 during the day. The purpose of this shutdown is to exercise the shutoff valves to assess their functionality in support of the future construction of a water main that will take place in the next few years. The City is working closely with Metro Vancouver during this time to ensure Vancouver residents continue to receive good service. Metro Vancouver has provided a detailed issues brief describing the purpose of the isolation test (Appendix A). Metro Vancouver does not anticipate any impact to water supply or quality during the test.

Please contact me directly if require any further information.



Jerry W. Dobrovoly, P.Eng., MBA
General Manager, Engineering Services

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Appendix A: Briefing Note from Metro Vancouver

PROJECT OVERVIEW

In 2019, Metro Vancouver will begin replacing aging infrastructure inside the valve chambers of the First Narrows Crossing, which supplies water to the western portions of the region. This work is part of regular maintenance of the water supply system to ensure reliable delivery of clean, safe drinking water.



During the replacement, the First Narrows Crossing (FNC) must be isolated from the rest of the water distribution system. While the crossing is isolated, drinking water for the City of Vancouver and University Endowment Lands will be supplied through an alternate distribution route, via the Second Narrows Crossing with reversed flow in Capilano Mains 4 and 5. Reversing flow may temporarily increase water turbidity.

Metro Vancouver is planning to perform a test isolation of the FNC over 36 hours starting January 7, 2019 (TBC). Metro Vancouver is maintaining close contact with the City of Vancouver, the University Endowment Lands (UEL) and Vancouver Coastal Health. Public and media interest is possible.

BACKGROUND

The First Narrows Crossings is one of three major supply corridors connecting Metro Vancouver's source reservoirs to member jurisdictions. This crossing is located just east of the Lions Gate Bridge and has supplied water from the North Shore to communities south of Burrard Inlet since the 1930s. Recent studies have indicated that some of the infrastructure inside the FNC valve chambers is nearing the end of its service life and must be replaced. The valve chamber improvement project is currently in the planning and design stage, with construction expected to begin in 2019. Work will take place during sequential winter seasons when water demand is lowest. Metro Vancouver will need to stop flow across the First Narrows Crossing during portions of construction in order to facilitate the work and protect worker safety.

During FNC isolation, water supply to the City of Vancouver and the UEL will be maintained through an alternate distribution route. This adjustment to the water transmission system means that flow will change direction in Capilano Mains 4 and 5 from Queen Elizabeth Park to Stanley Park. When flow changes direction, it may temporarily cause cloudiness or turbidity in the water supply.

When complete, the replaced infrastructure will help ensure the continued reliable delivery of clean, safe drinking water to the region.

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