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**CITY OF KELOWNA**  
**MEMORANDUM**

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**Date:** February 10, 2004  
**File No.:** 5600-07  
**To:** City Manager  
**From:** Water Manager  
**Subject:** South Mission Water Quality

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**RECOMMENDATION:**

THAT Council authorize staff to proceed with improvements to the Steele Road and McClure Booster Pump Stations at an estimated cost of \$235,000;

AND THAT the 2004 Financial Plan be amended to include a provision for the cost of these improvements with funding from the MFA Debt Water Reserve.

**BACKGROUND:**

Following the storm events of October 22<sup>nd</sup>, source water quality at the Cedar Creek and Swick Road water intakes was impacted. On-line water quality monitoring equipment detected significant change in quality and automatically took these stations "off line" through our pump facility control system. This control system continues to be important to ensure that any changes in water quality are detected, stations are shut down and that poor water quality as a result of run off created by the fire event in this area does not enter these intakes.

A recent study of drainage impacts as a result of the Okanagan Mtn. Park fire now confirm that source water quality in this area will likely be impacted over the next few years during certain rain events. There is therefore a need to explore alternate options of supply to the South Mission service area in the event poor water quality is experienced.

Staff, with the assistance of a local consultant, has developed a plan to provide an alternate method of supply to the South Mission system during potential water quality events. This involves making pumping and piping improvements to the McClure and Steele Road stations and creating an interconnect from this system to the existing South Mission water system. This will allow water from the main water distribution system to be pumped into the South Mission system to augment water demands and storage needs during periods when poor water quality is detected. It is anticipated that this alternate method of supply will handle current customer demand during spring run off and summer rain events based on current consumption patterns for the area. Further measures related to conservation may however be required in areas serviced by these stations by issuing notification to customers if poor water quality persists during high demand. It is anticipated that this work can be completed by April 30<sup>th</sup> subject to Council approval.

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Don Degen  
Water Manager

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John Vos  
Director of Works & Utilities