
TO: CITY MANAGER **DATE:** 2006 January 10
FROM: DIRECTOR ENGINEERING **FILE:** 32000-05
SUBJECT: WORK ORDERS
PURPOSE: To obtain approval of various capital work order accounts.

RECOMMENDATION:

1. **THAT** the work orders, as more specifically referred to in this report, be approved.

REPORT**60-21-147 Watermain Renewals (2006 Program) - Phase I**

Charge: 2006 Provisional Capital Budget
Watermains, pumping stations, etc \$2.2 Million

Additional Information: This work order provides funding for replacement watermains on streets that form part of the annual pavement rehabilitation and Local Area Services roadworks program. Total cost of this construction phase is estimated at \$2.2 Million. Construction of the replacement mains is coordinated with roadworks to reduce surface restoration costs and minimize potential for breaks after the new pavement is in place. Sufficient General Revenue funds are available in the Water Utility, and these expenditures are included in the 2006 Provisional Financial Plan.

60-21-148 Water Distribution System Study [2006]

Charge: 2006 Provisional Capital Budget
Watermains, pumping stations, etc \$50,000

Additional Information: Consulting services are required to update the computerized model of the City's water distribution system. Burnaby's system is divided into several pressure zones, some of which have been previously modelled. A fully calibrated model would enable staff to examine the effect of development and capital improvements on the reliability and operational efficiency of the distribution network. The objective of the study is to update existing data and undertake a water loss management study in a selected area. Sufficient General Revenue funds are available in the Water Utility, and these expenditures are included in the 2006 Provisional Financial Plan.

60-30-115 Sewer System Evaluation

Charge: 2005 Capital Budget \$275,000
Sanitary Extensions

Additional Information: The City has an ongoing program to reduce infiltration and inflow in the sanitary sewer system. Reduction of infiltration and inflow lessens the load on sewerage treatment plants and is a critical element in the Regional Liquid Waste Management Plan. The proposed program includes flow monitoring and video camera inspection to identify specific areas of the sewer network requiring rehabilitation. Sufficient General Revenue funds are available and these expenditures are included in the Sanitary Sewer Utility component of the 2006 Provisional Financial Plan.

60-30-114 Combined Sewer Separation – Engineering Services

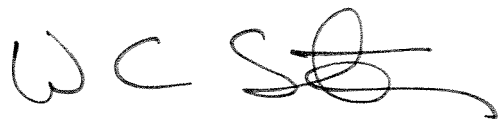
Charge: 2006 Provisional Capital Program \$200,000
Sanitary Extensions

Additional Information: Consultant services are required to prepare detailed engineering designs and contract administration related to the ongoing program to separate the combined sewers in the North Burnaby area into individual storm and sanitary sewers. Sufficient General Revenue funds are available in the Sanitary Sewer Utility and these expenditures are included in the 2006 Provisional Financial Plan.

60-30-116/60-21-144 Pump Station Upgrades

Charge: 2006 Provisional Capital Budget \$225,000
Sanitary Sewer/Water Utility

Additional Information: This work order provides funding for the ongoing program of improvements and upgrades to the existing pump station alarm and data acquisition systems. The systems enable staff to remotely monitor alarms and respond in a timely manner, in the event of a station malfunction. They also provide the important function of collecting system operating data for further analysis. Total project cost of \$225,000 is shared between the Water (\$100,000) and Sewer Utility (\$125,000). Sufficient General Revenue funds are available, and these expenditures are included in the 2006 Provisional Financial Plan.



W.C. Sinclair, P. Eng.
DIRECTOR ENGINEERING

AAS:
Copied to: Director Finance