
TO: CITY MANAGER **DATE:** 2009 September 29

FROM: DIRECTOR ENGINEERING **FILE:** 9110 20
Reference: Curtis-Duthie

**SUBJECT: COST SHARING AGREEMENT WITH SIMON FRASER UNIVERSITY,
CURTIS-DUTHIE WATER PUMP STATION**

PURPOSE: To seek Council's authorization to enter into a cost sharing agreement with Simon Fraser University (SFU) for the design and construction of a new Curtis-Duthie water pump station and associated works.

RECOMMENDATION:

1. **THAT** Staff be authorized to enter into a cost sharing agreement with SFU for a new Curtis-Duthie water pump station and associated works as outlined in this report.

REPORT

1.0 BACKGROUND

The existing Curtis-Duthie water pump station (Figure 1) was constructed in 1979 to supply water to the Pandora and Curtis-Duthie neighbourhood. In a recent study of the existing station with respect to future growth and upgrade needs, it was concluded that the station and equipment are aging and undersized and must be upgraded to meet future needs.

While the need to replace the existing station is identified, the City discussed with SFU regarding future water demand and emergency water backup supply to the SFU campus. Arising from the discussions between the City and SFU, a partnership opportunity was identified to upgrade the Curtis-Duthie pump station to accommodate the combined water supply needs of the City and SFU.

2.0 PROPOSED COST SHARING

In 2008, the City and SFU commissioned a joint study to investigate the feasibility and cost of a new Curtis-Duthie pump station. The study is now complete and it concluded that a joint pump station is feasible and cost effective to resolve the future water supply

To: City Manager
From: Director Engineering
Re: COST SHARING AGREEMENT WITH SIMON
FRASER UNIVERSITY, CURTIS-DUTHIE WATER
PUMP STATION

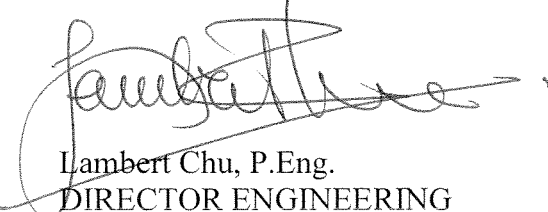
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issue for both the City and SFU. The estimated cost of the new pump station and the associated building and pipe works is approximately \$2.8 Million.

Based on an estimation of future flow demands, the cost sharing agreement would be 36.5% City cost and 63.5% SFU cost. The City would finance and implement the project in 2010 and recovers the cost from SFU upon completion of the work. Subject to Council approval of this report, staff would enter into an agreement with SFU on the cost sharing of the work and include the project in the 2010 Provisional Capital Program.

3.0 CONCLUSION

The existing Curtis-Duthie water pump station was constructed in 1979 and it requires capacity upgrades and pumps replacement to meet future demands. A partnership opportunity to share the upgrading cost with SFU to accommodate future City needs and SFU campus development was identified and confirmed in a recent feasibility study. The combined pump station will cost approximately \$2.8M and it is recommended that staff be authorized to enter into a cost sharing agreement with SFU as outlined in this report.

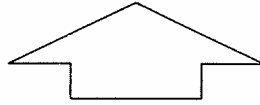


Lambert Chu, P.Eng.
DIRECTOR ENGINEERING

LSC:br

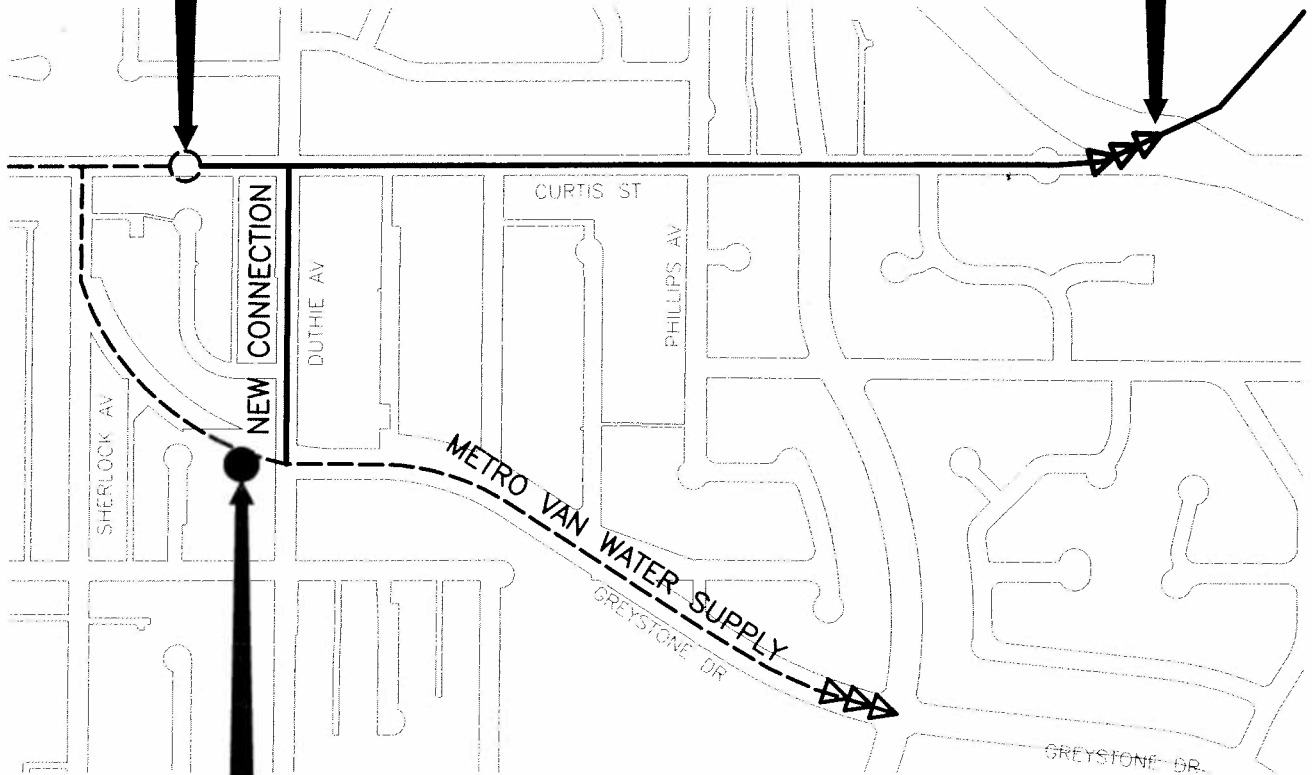
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Director Finance

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EXISTING
CURTIS DUTHIE
PUMP STATION

PROPOSED
NEW WESTERLY
WATER FEED TO SFU



PROPOSED
CURTIS DUTHIE
PUMP STATION

NO.	DATE	REVISION



FIGURE 1
PROPOSED NEW CURTIS DUTHIE
WATER PUMP STATION

DRAWN BY: HLOUIE

SCALE: N.T.S.

APPRV'D BY:

DATE: 2009-09-29

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