



The Corporation of the District of Central Saanich

MEMORANDUM

To: Nirmal Bhattacharya, P. Eng. Municipal Engineer
From: Yvan Sylvestre, Sr. Eng. Tech.
Date: 28 April 2010
Subject: Northwest Quadrant Water Servicing Considerations

RECOMMENDATION:

- 1) That Council may wish to consider the Brentwood Bay Water Pressure Zone project as a priority project and direct Staff to engage the services of Genivar Consulting to undertake the pre-design evaluation and preparation of detailed cost estimates this year, utilizing the 2009 watermain upgrade carryover budget.
- 2) That the Northwest Quadrant Water Servicing Conceptual Design Report prepared by Kerr Wood Leidal Associates be referred to the District-wide Water Master Plan Study process which is proposed for 2011 and 2012 in the District's 2010-2014 Financial Plan.

DISCUSSION:

At the Water and Waste Management Committee Meeting held April 12, 2010, the Committee received a report from Kerr Wood Leidal Associates Ltd on potential future water serving options to the North-West Quadrant (NWQ) of the District.

As identified in the NWQ servicing report, potential water servicing options to the NWQ depend on the redistribution of pressure in the Lower Dawson pressure zone along West Saanich Road to allow for a future connection along that route. The redistribution of pressure in that zone had also been identified as a solution to correct deficient fire flow requirements along the commercial corridor of West Saanich Road in Brentwood Bay.

In this regard, you may recall that a study conducted by Bullock Baur Associates in 2008 detailed how the implementation of a new pressure zone for the lower elevations of Brentwood Bay would increase the availability of water at the higher elevations to the Fire Underwriter's Survey (FUS) standards and allow for future expansion of the system. The preliminary cost estimate for the implementation of the

new pressure zone at the time of the study in 2008 was \$1,391,000.

Therefore, as an initial step to correct the fire flow deficiency in the Brentwood Bay corridor commercial district in the short term and, dependent upon future Council direction, to potentially allow for a future water connection to the NWQ in the long term, it would be advisable to re-engage the consulting services of Genivar (now includes Bullock Baur) to complete the pre-design assessments and testing, site selections for the new pressure reducing valves and preparation of detailed cost estimates in 2010. This design component of this project is currently identified in the five year financial plan for 2012 but could be undertaken in 2010 with the available staffing resources and project allocations. The estimated cost for the pre-design of this project is \$25,000-\$30,000 and could be funded from the 2009 Watermain Upgrade GL carry forward of \$33,000.

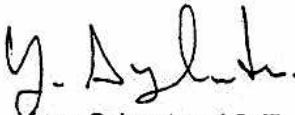
In regards to the various potential future servicing options for the Northwest Quadrant of the District presented by the Consultants, Council resolved in part that the report be referred to the Capital Regional District for review and comments in consideration of related Peninsula water servicing implications (this is being done), and Staff meet with the Chair of the Water and Waste Management Committee to consider all of the various options and issues which were raised at the Water and Waste Management Committee meeting of April 12, 2010.

Accordingly, Staff met with the Chair of the Water and Waste Management Committee, and upon review of the various options and issues recommend as follows:

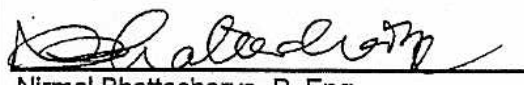
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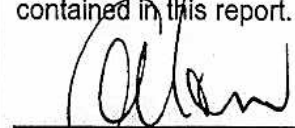
Respectfully submitted,


 Yvan Sylvestre, ASCT
 Senior Engineering Technologist

I endorse the recommendation contained in this report.


 Nirmal Bhattacharya, P. Eng.
 Municipal Engineer

I concur with the recommendation contained in this report.


 Gary C. Nason,
 Administrator