
**REPORT TO REGIONAL WATER SUPPLY COMMISSION
MEETING OF WEDNESDAY, 18 APRIL 2007**

SUBJECT SOOKE RIVER ROAD DISINFECTION FACILITY - AWARD OF ENGINEERING SERVICES CONTRACT

PURPOSE

To recommend award of the contract for the provision of engineering design and construction administration services for the proposed Sooke River Road Disinfection Facility.

BACKGROUND

The preliminary engineering report on the new supply pipeline to the District of Sooke was completed in September 2006 by Urban Systems Ltd. At its October 18, 2006 meeting, the Regional Water Supply Commission (RWSC) approved calling for proposals for final design of the project to construct a proposed 14.3 km long, 600 mm diameter watermain and a new disinfection facility to be located on Sooke River Road near Charters River. The design of the pipeline was awarded to Associated Engineering (BC) Ltd. by the RWSC at its February 21, 2007 meeting.

Following a request for qualifications issued in late 2006, four firms were short listed in January 2007 to provide detailed engineering proposals for design and construction administration services for the proposed disinfection facility. One of the short listed firms later withdrew as a result of commitments to other projects that they had recently acquired.

Final proposals were received from the remaining three firms in March 2007 and evaluated in accordance with Capital Regional District (CRD) policy. The consultant with the best combination of technical expertise and fee proposal, as detailed in the policy, is Associated Engineering (BC) Ltd.

All reviewers ranked Associated's technical proposal as significantly better than the other two. While their financial proposal was the second-lowest, it included "green" innovations that, if implemented, will result in significant reductions in energy needs and operating costs. These innovations include examining heat recovery from the water, and designing the pressure reduction at the disinfection facility using a pump-as-turbine system that would also improve the facility's reliability by providing a back up power source.

In addition, Associated suggested assessing the concept of including a separate turbine in the design that would be used to generate electricity for sale to BC Hydro by directing water to Charters River during low water demand winter conditions when water is flowing over the Sooke Dam spillway. Staff propose to pursue this idea with the consultant which, if feasible, will be added to the contract on approval by the Commission.

Associated has performed similar work and services for CRD Water Services, including design and construction of the Japan Gulch Ultraviolet Disinfection Facility and several phases of the Main No. 1 replacement program. Because Associated was also recently awarded the design of the new supply pipeline to Sooke, there will only be one firm performing the design and construction administration services for both the pipeline and disinfection facility. This will result in more efficient and simplified project management requirements for CRD staff since there will not be any need for consultant coordination. This should result in additional project cost savings which are expected to be in the order of \$10,000 - \$15,000.

FINANCIAL IMPLICATIONS

The 2006 through 2008 budgets include a total of \$20,845,000 to complete the new supply pipeline to Sooke and the Sooke River Road Disinfection Facility. The majority of these costs will occur in 2008 during the main construction phases of the projects.

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The fee proposal from Associated for the Sooke River Road Disinfection Facility is \$272,615 including GST. This estimate includes site inspection and contract administration services of \$2,980 per week over a 32-week construction period. If the actual construction period is different, then the engineering fees will be adjusted accordingly.

RECOMMENDATION

That the Regional Water Supply Commission award the contract for engineering design and construction services for the Sooke River Road Disinfection Facility to Associated Engineering (BC) Ltd. in the amount of \$272,615 including GST.

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