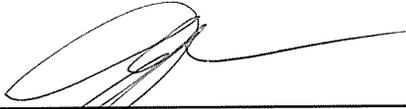


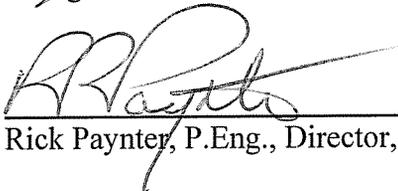
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Halifax Regional Council  
December 17, 2002

**TO:** Mayor Kelly and Members of Halifax Regional Council

**SUBMITTED BY:**

  
George McLellan, Chief Administrative Officer

  
Rick Paynter, P.Eng., Director, Public Works & Transportation

**DATE:** December 10, 2002

**SUBJECT:** Consultant Engineering Services Award RFP 02-102  
Wastewater Pumping Stations and Forcemains Study

**ORIGIN**

The approved 2002/03 Capital Budget - Pumping Stations and Forcemains Upgrades, Account No. CGR00371.

**RECOMMENDATION**

It is recommended that RFP 02-102, Consultant Engineering Services, Wastewater Pumping Stations and Forcemains Study be awarded to the highest ranking proponent, SNC Lavalin Inc., for a cost of \$96,175 plus net HST, for a sub total of \$102,358, and that an additional amount of \$62,000 plus net HST, for a sub total of \$65,986, be set aside for the unit prices items, for a Total of \$168,344 with funding from Account No. CGR00371 as per the Budget Implications section of this report.

## **BACKGROUND**

The HRM currently maintains 149 wastewater pumping stations, plus eight holding tanks and flow regulating chambers. Associated with the pumping stations are forcemains and pressure sewers. These pumping stations and their related infrastructure vary as to age and physical condition.

The HRM typically conducts repairs, upgrades and replacements on this infrastructure on a demand basis as the need arises, as part of its operating and capital budgets.

## **DISCUSSION**

Thirty-seven of the pumping stations have been identified as priorities for rehabilitation because of operational concerns. The primary objective of this Wastewater Pumping Stations and Forcemains Study is to assess on a comprehensive basis the condition of the 37 stations, and develop recommendations using a planned and prioritized approach regarding repairs, upgrades and replacements to this infrastructure, including costs for budgeting purposes.

Furthermore, the scope of work for this project includes site visits at all HRM pumping stations to inspect and collect information which is not accurate or available in HRM records or plans on file. The Consultant is responsible to collect and prepare record information for its 157 pumping stations and related structures, evaluate each pumping station as it relates to wet weather overflows and requirement for back-up power and permanent flow monitoring.

The four former municipalities had differing approaches to the gathering and storing of record information with respect to wastewater and stormwater infrastructure, so there is a wide variance in the completeness, accuracy, reliability and format of this data. In recognition of this issue, the HRM has an ongoing program to research the available data sources, carry out field data collection, and convert information on wastewater and stormwater infrastructure into a GIS database. This Wastewater Pumping Stations and Forcemains Study is required to gather information with respect to pumping stations, and their related infrastructure so that it can be readily added to the HRM's GIS. The information, once incorporated into the GIS, will assist in the maintenance and management of pumping stations as well as in responding to sewer emergencies.

Terms of Reference outlining the scope of work were prepared and a Request for Proposals was advertised in the local newspaper and closed on October 9, 2002. Proposals were received from the following consultants:

AMEC E&C Services Limited  
CBCL Limited  
Dillon Consulting Limited

MGI Limited  
O'Halloran Campbell Consultants Limited  
SGE Acres Limited  
SNC Lavalin Inc.  
Vaughan Engineering Limited

From the eight submissions the following three were short listed for interviews: CBCL Limited, O'Halloran Campbell Consultants Limited and SNC Lavalin Inc. Interviews were conducted on November 14, 2002.

The evaluation team consisted of staff from Environmental Services, Design Services and Technical and Underground Services. The criteria used for the evaluation of the proposals included: project team, firm's experience on similar works and performance on past HRM projects, understanding of the scope of works and methodology to complete the works, considerations of options, project schedule and fees, as well as overall proposal quality and compliance with the Terms of Reference. Results are presented in Appendix A.

In addition to the basic quoted study fee, the consultants were also required to submit unit prices for survey, record drawing reproduction and draw-down tests. Staff estimated quantities for budgeting purposes and Council's approval only, as the actual quantities will not be known until the study is underway. These additional expenses are budgeted at \$62,000, plus net HST, for a total of \$65,986.

### **BUDGET IMPLICATIONS**

Funding for this project in the amount of \$168,344 (basic fee of \$102,358 + \$65,986 inclusive of net HST) is available in the approved Capital Budget, Account No. CGR00371 Upgrading Pumping Stations. The budget availability has been approved by Financial Services.

#### **Budget Summary**

#### **Account No. CGR00371, Upgrading Pumping Stations**

Cumulative Unspent Budget	\$466,252.70
Less: <b>RFP 02-102</b>	<b><u>\$168,344.00</u></b>
	\$297,908.70

**FINANCIAL MANAGEMENT POLICIES/BUSINESS PLAN**

This report complies with the Municipality's Multi-Year Financial Strategy, the approved Operating, Capital and Reserve budgets, policies and procedures regarding withdrawals from the utilization of Capital and Operating reserves, as well as any relevant legislation.

**ALTERNATIVES**

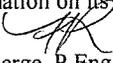
None recommended.

**ATTACHMENTS**

Appendix A - Proposal Evaluation Criteria

Additional copies of this report, and information on its status, can be obtained by contacting the Office of the Municipal Clerk at 490-4210, or Fax 490-4208.

Report Prepared by:

  
Renée Roberge, P.Eng., Stormwater & Wastewater Engineer, Environmental & Right of Way Services, 490-6941.

Report Approved by:

  
John Sheppard, P.Eng., Manager, Environmental & Right of Way Services, 490-6950.

**APPENDIX A  
PROPOSAL EVALUATION CRITERIA**

<b>Consultant</b>	<b>SNC Lavalin Inc.</b>	<b>O'Halloran Campbell Consultants Limited</b>	<b>CBCL Limited</b>
<b>Criteria</b>			
Project Team (10)	7.7	8.8	7.7
Recent Experience (10)	8.4	7.5	8.8
Performance on Previous HRM projects (5)	3.4	3.4	3.1
Understanding of Project (15)	11.6	13.2	11.5
Methodology (25)	19.3	22.1	19.2
Consideration of Options/Solutions (10)	7.7	8.8	7.7
Work Schedule (5)	3.4	4.0	3.0
Fee Schedule * (15)	15.0 \$96,175	8.3 \$139,000	8.7 \$136,070
Overall Proposal Quality (5)	4.0	4.3	3.0
Total Score (100)	80.5	80.4	72.7
Rank	1	2	3

\* The proposals's costs ranged from \$96,175 to \$217,424, with an average cost of \$149,651.

In addition to the proposal cost, the consultants were also required to submit unit prices for survey, record drawing reproduction and draw-down tests. The unit prices presented by SNC Lavalin Inc. are as follows:

Survey: \$400 for set up and \$3 per point  
 Drawing Reproduction: \$0.10 per sq foot  
 Drawdown test: \$100