

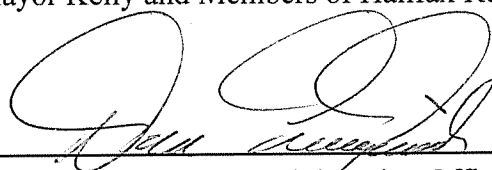
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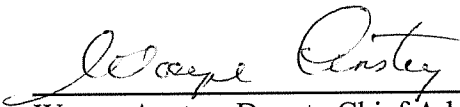
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Halifax Regional Council
May 8, 2007

TO: Mayor Kelly and Members of Halifax Regional Council

SUBMITTED BY: 

Dan English, Chief Administrative Officer



Wayne Anstey, Deputy Chief Administrative Officer - Operations

DATE: May 8, 2007

SUBJECT: **Award - RFP No. 07-328, Consulting Engineering Services
Wellington Inflow & Infiltration Reduction Program**

ORIGIN

2006/07 Capital Budget.

RECOMMENDATION

It is recommended that Regional Council award RFP No. 07-328, Consulting Engineering Services - Wellington Inflow & Infiltration Reduction Program, to the highest scoring proponent, Conestoga-Rovers & Associates, at a cost of \$107,056.26 (net HST included), with funding from Capital Account No. CSU00327 - Wellington STP, as outlined in the Budget Implications section of this report.

BACKGROUND

Wellington Subdivision is located in the community of Wellington, at the north end of Lake Fletcher. The subdivision is serviced by a sanitary sewer system and a wastewater treatment facility. Approximately 30 properties are connected to the sewer system. Two of the customers are commercial. The rest are residential.

The sewer system and the Wellington Wastewater Treatment Facility were constructed about 35 years ago. The treated effluent from the treatment facility is discharged into the run between Lake Fletcher and Grand Lake, which is part of the Shubenacadie System.

The treatment facility requires a full reconstruction. It is at the end of its service life and is in poor structural condition. Further, the facility is subjected to very high wet weather flows, which cause serious operational problems at the facility, so that the effluent is often out of compliance with regulatory requirements during periods of rainfall.

This kind of situation is always cause for concern, but is particularly so at this location. First, the Shubenacadie System has been identified as a sensitive water resource in HRM, and discharge of under-treated wastewater into this system will contribute incrementally to the environmental impacts on the system. Second, there is a small water system owned by the Halifax Regional Water Commission located downstream of the wastewater treatment facility, which draws its water from Grand Lake. Third, staff are aware anecdotally that there are also residences that draw water directly from the lake for their own personal use.

These are all good reasons for HRM to deal in a very positive way with the current wet weather flow and under-treatment problems at this facility.

The physical condition of the facility, and the wet weather flow problems at the facility, result in this being a Priority One project, according to HRM's Stormwater and Wastewater Priority Rating.

Staff had a consultant study completed in 2005, which identified the various sources of infiltration/inflow which cause the wet weather flow problems at the treatment facility. Staff are intending to address the infiltration/inflow problems first, before moving on to the reconstruction of the facility itself.

There are two significant sources of infiltration/inflow into the sewer system:

1. the aging sewer itself, which is owned by HRM and dates back about 35 years; and
2. the private properties serviced by the sanitary sewer, some of which are discharging stormwater from sources which may include downspouts, sump pumps and footing drains into the sanitary sewer, which is a violation of the MGA.

The next step in the process is to retain a consultant to carry out design improvements to the sewer system within the subdivision, including the provision of a storm sewer system and storm laterals to the property lines. The plan is actually to convert the existing sanitary sewer to a storm sewer, and to provide a new, more watertight sanitary sewer, which will address the infiltration/inflow related to HRM's sanitary sewer.

Once the sewer system improvements are designed and constructed, those property owners who are discharging stormwater into the wastewater system in contravention of the MGA will be required to connect to the storm sewer, thereby reducing the wet weather flows at the treatment facility. The property owners will typically be required to construct a lateral from their building to connect to the lateral at the front of their property, and will also need to make some modifications to the plumbing in their buildings.

Once this phase of work is completed, the wastewater treatment facility can be reconstructed to handle the reduced wastewater flows from within the subdivision.

DISCUSSION

The RFP (07-328) for the Wellington Inflow & Infiltration Reduction Program closed on February 15, 2007. Two proposals were received. The initial quotes were higher than anticipated for this assignment. Staff took the opportunity to refine the project scope and requested revised financial proposals. The two proponents submitted their revised financial proposals on April 13, 2007.

The proposals were evaluated by two staff members from Environmental Engineering Services and one staff member from Design & Construction Services. A representative from Procurement Services attended the evaluation meeting.

The results of the evaluation are outlined as follows:

Consultant	Evaluation Score (Maximum Score = 1000)	Cost of Services (including net HST)
Conestoga-Rovers & Associates	695	\$107,056.26
CBCL Limited	638	\$196,502.69

The fee for this assignment was estimated at \$100,000.

The award of this contract will facilitate the design of the improvements to the sewer system in the Wellington Subdivision. These improvements, together with the later work to eliminate the stormwater discharge into the sanitary sewer, will reduce the wet weather flows at the Wellington Wastewater Treatment Facility.

BUDGET IMPLICATIONS

Funding for this project is available from Account No. CSU00327 - Wellington STP. The budget availability has been confirmed by Financial Services.

Budget Summary:	<u>Account No. CSU00327 - Wellington STP</u>	
	Cumulative Unspent Budget	\$160,467.07
	Less: RFP 07-328	<u>\$107,056.26</u>
	Uncommitted Balance	\$53,410.81

This work was originally estimated at \$100,000.

Any remaining funds will be used on later phases of this project.

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

Council could choose to reject the recommendation to award the Wellington Inflow & Infiltration Reduction consulting services assignment. Staff does not recommend this option as the sewer system is in need of inflow and infiltration work to reduce the wet weather flows to the wastewater treatment facility. In turn, this project will facilitate a more cost-effective upgrade of the wastewater treatment facility, which will enable the facility to be brought into regulatory compliance.

ATTACHMENTS

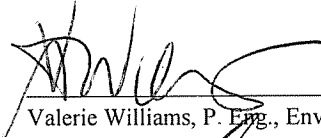
Attachment A - Proposal Evaluations

**Award - RFP 07-328, Consulting Engineering Services
Wellington Inflow & Infiltration Reduction Program
Council Report**


May 8, 2007

A copy of this report can be obtained online at <http://www.halifax.ca/council/agendasc/cagenda.html> then choose the appropriate meeting date, or by contacting the Office of the Municipal Clerk at 490-4210, or Fax 490-4208.


Report Prepared by:


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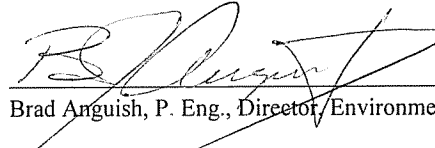
Report Approved by:


John Sheppard, P. Eng., Manager, Environmental Engineering Services at 490-6958

Financial Approval by:


Catherine Sanderson, Senior Manager, Financial Services, 490-1562

Report Approved by:


Brad Anguish, P. Eng., Director, Environmental Management Services at 490-4825

Attachment A
Proposal Evaluations

Request for Proposals, RFP NO. RFP 07-328, Consulting Engineering Services Wellington Inflow & Infiltration Reduction Program			
Criteria	Max. Score	Conestoga-Rovers & Associates	CBCL Limited
1. Understanding and Implementation	250	160	182
2. Experience and Project Team Qualifications	300	166	193
3. Project Management and Quality Control	250	169	154
4. Price (cost including net HST)	200	200 (\$107,056.26)	109 (\$196,502.69)
Total Score	1000	695	638