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CONSULTANT SELECTION FOR ENGINEERING SERVICES SCHOMBERG WATER POLLUTION CONTROL PLANT (WPCP) EXPANSION TOWNSHIP OF KING, PROJECT 73060

The Transportation and Works Committee recommends the adoption of the recommendations contained in the following report, September 15, 2005, from the Commissioner of Transportation and Works:

1. RECOMMENDATIONS

It is recommended that:

1. The consulting engineering firm of Associated Engineering (Ont.) Ltd. be retained to undertake the detailed design and contract administration for the Schomberg Water Pollution Control Plant (WPCP) Expansion at an upset limit of \$753,069.00 plus GST.
1. The Regional Chair and Regional Clerk be authorized to execute a formal agreement with Associated Engineering (Ont.) Ltd. for the completion of these services, subject to review by Legal Services.

2. PURPOSE

This report is provided in order to obtain Council authorization to retain consulting engineering services related to the Schomberg WPCP Expansion.

3. BACKGROUND

The Schomberg WPCP was originally designed to treat wastewater generated from a population of 1,500 persons. The Schomberg Community Plan (1998) identified the need to service additional growth. The Plan concludes that the current wastewater treatment capacity is inadequate to accommodate further development, as it must service a projected population of up to 3,100 persons by the year 2023. A map of the Schomberg area is included as *Attachment 1*.

3.1 Existing Facility

The wastewater treatment process currently consists of three earthen-lined lagoons followed by three intermittent sand filters. The plant currently discharges to the Schomberg River on a seasonal basis (during summer) and stores sewage in the lagoons during the non-discharge season.

3.2 Class Environmental Assessment

In light of the need to service additional population growth, York Region has completed a Class Environmental Assessment (EA), which has recommended the need for an expansion of the Schomberg WPCP to a design capacity of 2,055 m³/d. It is estimated that the plant will be servicing at its expanded capacity by December 2007.

The Class EA study recommended a treatment plant of expanded capacity that discharges to the Schomberg River on a continuous year-round basis. The expansion is summarized below:

- Construction of a new screening and grit removal facility.
- Construction of a new secondary treatment process with one of two activated sludge design concepts:
 1. Extended aeration (Region's preferred activated sludge technology).
 2. Sequencing Batch Reactor.
- Construction of new tertiary filters for phosphorus removal capacity.
- Construction of an equalization tank (must be confirmed during detailed design).
- Construction of new ultra-violet (UV) disinfection facility.
- Expansion of the effluent pumping capacity.
- Construction of a new sludge holding tank.

The Ministry of the Environment (MOE) has requested that the Region provide additional data to support the case for year-round discharge into the Schomberg River. For this purpose, the consultant retained for the EA phase of this project is currently conducting a sampling and flow monitoring program on the Schomberg River. Results will be submitted to the MOE in December 2005 and December 2006. An amendment to the Environmental Study will be made pending MOE acceptance of the monitoring results.

The Region now wishes to retain a consultant to provide a comprehensive scope of services to expedite the design and contract administration phases of the project.

4. ANALYSIS AND OPTIONS

In accordance with the Purchasing By-law, Request for Qualifications (RFQ) were received for this work in response to advertisements in the Daily Commercial News and Electronic Tender Network on June 23, 2004. Based on this RFQ, four firms were provided with Request for Proposal (RFP) No. P-05-61. Proposals were received from all four of the firms.

The proposals were evaluated using the two envelope system with technical and financial information kept in separate envelopes. The technical proposal was evaluated prior to any knowledge of financial bids. Technical content was weighted at 60%. The technical evaluation was based on the following criteria:

- Project Team Experience.
- Relevant Projects.
- Project Understanding.
- Approach and Methodology.
- Project Management Approach.
- Quality Assurance and Quality Control.

The financial evaluation composed the remaining 40% weight of the total evaluation. The technical and financial results are summarized below in a Table 1.

Table 1
Request for Proposal Evaluation Results

Firm	Technical Score (Out of 60)	Upset Fee (No GST)	Financial Score (Out of 40)	Total Score (Out of 100)
Associated Engineering (Ont.) Ltd.	53.3	\$753,069.00	39.2	92.5
KMK Consultants Limited	48.6	\$738,780.00	40.0	88.6
Ainley Associates Limited	47.2	\$800,405.00	36.9	84.1
AWS Engineers & Planners Corp.	47.6	\$902,519.00	32.7	80.3

The technical proposal of Associated Engineering (Ont.) Ltd. demonstrated a superior understanding of the nature of the work involved in addition to the overall management of the project. These were key components in their achieving the highest overall score.

5. FINANCIAL IMPLICATIONS

The upset limit cost included in the proposal is \$753,069.00, plus GST. There are sufficient funds identified in the 2005 10-year Capital Budget for all anticipated expenditures in 2005.

The fees for contract administration and site inspection were based on a contract duration for construction of 75 weeks. If the actual contract duration varies from the assumed duration, the fees for contract administration and site inspection will be adjusted based on the weekly fee provided in the proposal.

6. LOCAL MUNICIPAL IMPACT

This project will provide additional wastewater treatment servicing to the community of Schomberg by 2008 to satisfy the needs of population growth.

The addition of newer technology to the plant (screening and grit removal, UV disinfection, phosphorus removal capacity) will produce a higher quality effluent, lessening the environmental impact to downstream areas of the Holland River and Lake Simcoe.

7. CONCLUSION

The consultants' proposals for this project were evaluated in accordance with Regional policy. It is recommended that the consulting engineering firm Associated Engineering (Ont.) Ltd. be engaged to undertake the detailed design and contract administration for the Schomberg Water Pollution Control Plant (WPCP) Expansion at an upset limit of \$753,079.00, plus GST

The Senior Management Group has reviewed this report.

(The attachment referred to in this clause was included in the agenda for the October 12, 2005 Committee meeting.)