
DATE: February 24, 2010

REPORT TITLE: **SITE PREPARATION AND DEMOLITION WORKS AT THE G.E. BOOTH
WASTEWATER TREATMENT PLANT
CAPITAL PROJECTS 02-2935, 02-2924 AND 10-2925
DOCUMENT 2009-026P
CITY OF MISSISSAUGA, WARD 1**

FROM: Dan Labrecque, Commissioner of Public Works

RECOMMENDATION

That the contract (Document 2009-026P) for the Consulting Services for Site Preparation and Demolition Work at the G.E. Booth Wastewater Treatment Plant be awarded to Black & Veatch Canada Company in the estimated amount of \$1,152,815.70 (excluding applicable taxes), under Capital Projects 02-2935, 02-2924 and 10-2925, in accordance with Purchasing By-law 63-2008.

REPORT HIGHLIGHTS

- The Region of Peel's Water and Wastewater Master Servicing Plan identified the expansion and upgrades required for the water and wastewater treatment plants in the immediate future through to the year 2031.
- A portion of the plant is scheduled for upgrades in the year 2013, resulting in a loss of capacity for the four year construction period.
- Recent plant expansions have resulted in the decommissioning of some major equipment and processes at the plant (such as the old ZIMPRO process). At the time of replacement, the old systems had to be left in place as backup. Now that the new systems are fully operational, the defunct process equipment can be removed.
- In order to provide a safe working environment and to achieve the goals of the Master Servicing Plan, some site preparation and demolition work must be completed at the plant. This will ensure the previously decommissioned areas will meet building code requirements and also meet the requirements of the Master Servicing Plan with respect to future reconstruction of a portion of the facility.
- Request for Proposal 2009-026P was competitively bid and Black & Veatch Canada Company is recommended for award.

DISCUSSION

February 24, 2010

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1. Background

The G.E. Booth Wastewater Treatment Plant has undergone numerous plant upgrades and expansions in recent years in order to meet the increasing demands from Peel residents and to provide aesthetic improvements in the vicinity of the treatment plant. For example, the replacement of the ZIMPRO thermal drying process with hot wind box incinerators has drastically decreased odour complaints from residents in the vicinity of the plant.

During the replacement of processes such as ZIMPRO, the old systems were required to be kept in place as backup until the new systems could be brought on-line. Now that the new systems are operating as designed, the old structures and equipment such as ZIMPRO and the old digester/hyan reactors need to be properly decommissioned, removed, or brought up to current Ontario Building Code standards. As such, some site preparation and demolition work is required. The proposed design work will ensure the existing site is safe and secure from the standpoint of tunnel access/egress, electrical layout and structural stability. It will also allow us to maintain the master servicing plan schedule to reconstruct a portion of the plant in 2013.

For this project, staff have allowed for 10 months of design work, construction scheduled to begin mid 2011 and completion by the end of 2012.

2. Selection Process

Due to the complex nature of the project, and the increasingly busy municipal engineering market, staff created a short list of engineering firms considered to have the design, construction, expertise and resources to meet the Region's requirements. The short-list invited to submit proposals included Black & Veatch and AECOM. Both engineering firms have a thorough understanding of the complexities of the plant and its processes.

The Region of Peel issued a Request for Proposal (RFP) for the project to the two consulting engineering firms for the design of the site preparation/demolition. The proposals were evaluated by a committee consisting of staff from Wastewater Treatment. The evaluation included the consultant's understanding of the project, the proposed staff assigned to the project, their experience, the methodology to be utilized as well as the schedule and estimated costs to complete the project. Attention was also placed on the consultant's ability to recognize operational constraints, which would affect construction.

The evaluation results are as follows:

Vendor Name	Location	Overall Ranking	Technical (80 per cent)	Financial (20 per cent)
Black & Veatch Canada Company	Markham, ON	1	1	1
AECOM Canada Limited	Brampton, ON	2	2	2

From the two proposals received for the project, the Black & Veatch proposal received the highest overall score when assessing the combination of technical proficiency and price. The consultant demonstrated a thorough understanding of the assignment, proposed a

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The consultant demonstrated a thorough understanding of the assignment, proposed a comprehensive project approach and presented an experienced project team. Staff concluded that the Black & Veatch proposal will provide the best overall value to the Region of Peel.

FINANCIAL IMPLICATIONS

The required funding to complete this project is available in the approved Capital Budget under the following Projects:

Project 02-2935 – G.E. Booth Treatment Facility Biosolids -	\$700,000.00
Project 02-2924 – G.E. Booth Treatment Facility Expansion -	\$352,815.70
Project 10-2925 – G.E. Booth Treatment Facility Dewatering -	\$100,000.00

CONCLUSION

In order to safely remove decommissioned equipment and to prepare the site for future reconstruction, some site preparation and demolition must take place at the G.E. Booth Wastewater Treatment Plant. This project will ensure the work is properly and safely designed with due consideration for underground tunnel access along with safe electrical and structural layouts while meeting the requirements of the Ontario Building Code.



Dan Labrecque
Commissioner of Public Works

Approved for Submission:



D. Szwarc, Chief Administrative Officer

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