



## CITY OF VANCOUVER

### ADMINISTRATIVE REPORT

Report Date: January 16, 2007  
Author: Doreann Leah Mayhew  
Phone No.: 604.940.3206  
RTS No.: 06470  
VanRIMS No.: 03-1200-11  
Meeting Date: January 30, 2007

TO: Vancouver City Council

FROM: General Manager of Engineering Services  
Manager of Materials Management

SUBJECT: Award of Contract for RFP PS06078 Professional Engineering Services -  
Vancouver Landfill Phase 1 Closure

#### RECOMMENDATION

- A. THAT, subject to the conditions set out in Recommendations B, C, and D, Council authorize a contract with CH2M Hill to provide Professional Engineering Services for the Vancouver Landfill Phase 1 Closure Project at an estimated cost of \$820,611 plus applicable taxes, subject to a contract satisfactory to the Director of Legal Services, General Manager of Engineering Services and Manager of Materials Management. Funding for the project was previously approved by Council (RTS No. 05067, Vancouver Landfill Capital Projects from the Solid Waste Capital Reserve).
- B. THAT, the Director of Legal Services be authorized to execute and deliver on behalf of the City all legal documents required to implement Recommendation A.
- C. THAT, all such legal documents be on terms and conditions satisfactory to the General Manager of Engineering Services, Manager of Materials Management and the Director of Legal Services.
- D. THAT, no legal rights or obligations will be created by Council's adoption of Recommendation A, B and C above unless and until such legal documents are executed and delivered by the Director of Legal Services.

## **COUNCIL POLICY**

Consultant agreements exceeding \$30,000 require Council Authorization. Contracts are to be awarded on the basis of best overall value for the City.

## **PURPOSE**

The purpose of this report is to seek Council authority to engage CH2M Hill to conduct Professional Engineering Services for the Vancouver Landfill Phase 1 Closure Project at an estimated maximum cost of \$820,611 plus GST.

## **BACKGROUND**

The City of Vancouver owns and operates the Vancouver Landfill located in Delta at 5400 72<sup>nd</sup> Street. The Landfill operates under an Operational Certificate issued by the B.C. Ministry of Environment. As part of the Vancouver's solid waste management system, the Vancouver Landfill receives approximately 525,000 tonnes of municipal solid waste per year. In addition to Vancouver and Delta, the Landfill provides refuse disposal for Richmond, White Rock, and the University Endowment Lands.

The fill plan for the Landfill is comprised of nine phases as described in the 2000 Vancouver Landfill Design and Operations Plan. Phase 1 was completed in June 2006. Currently, landfill operations are occurring in Phase 2. As each phase is filled, the Operational Certificate requires that environmental protection systems be installed to close the phase. Environmental protection systems include final cover, landfill gas (LFG) collection works and leachate management works. These systems minimize the environmental impact of completed areas of the Landfill by maximizing landfill gas capture and minimizing leachate generation.

On June 16, 2005, Vancouver City Council approved a number of capital projects at the Vancouver Landfill. One of the capital projects approved was Phase 1 Closure, at a proposed cost of \$11,875,000.

In July 2006, the General Manager of Engineering Services and Manager of Materials Management sought Expressions of Interest from consultants with expertise in landfill closure design. CH2M Hill, Golder Associates and Gartner Lee Limited submitted qualified expressions of interest.

In September 2006, the General Manager of Engineering Services and Manager of Materials Management sought proposals through an RFP (PS06078) from the consulting companies pre-qualified for this project through the Expression of Interest. The scope of work for consulting services included conceptual and detailed design for Phase 1 Closure including landfill gas system upgrades, as well as construction management services.

## **DISCUSSION**

Proposals for the Vancouver Landfill Phase 1 Closure Project were submitted by CH2M Hill, Golder Associates and Gartner Lee Limited on October 17, 2006. Prior to reviewing the proposals, the General Manager of Engineering Services and the Manager of Materials Management developed an evaluation matrix (the "Matrix") to compare the three proposals. The Matrix compared the proponents' project teams, general proposal contents and proposal

details. Proponents were scored out of a total of 69 points. Proposal cost was not assigned a numerical value in the Matrix.

An evaluation team composed of Engineering Services staff (the “Evaluation Team”) evaluated the proposals based on the Matrix. The Evaluation Team gave CH2M Hill a score of 60, Gartner Lee Limited a score of 48 and Golder Associates a score of 38. Therefore, the Evaluation Team recommended that CH2M Hill be selected for the Project.

The Evaluation Team noted that:

- CH2M Hill’s proposal provided extensive detail on all aspects of the Project requirements as listed in the RFP. As requested by the City, the proposal provided a detailed breakdown of each team member’s role in the Project as well as detailed explanations of sustainability issues, site investigations and closure design. This level of detail shows a clear understanding of the Project requirements.
- CH2M Hill’s proposal focused primarily on the design and construction of an effective and cost efficient final cover system and also considered various challenges related to increasing landfill gas collection and maximizing the diversion of surface water.
- CH2M Hill’s pricing proposal was inclusive of all of the RFP requirements. Their proposal included value added services beyond the basic RFP requirements, at no additional cost to the Project.
- CH2M Hill’s team includes Sperling Hansen Associates to complete site investigations, final cover design and construction inspection; and Hayes Consulting to co-ordinate the design efforts. These subconsultants are highly experienced in landfill closure works in British Columbia.

In addition to evaluating the proposals, the Evaluation Team conducted meetings with each proponent on January 10, 2007. The purpose of these meetings was to seek clarification on issues related to the proposals. Questions specific to each proposal were prepared by the Evaluation Team prior to the meetings. Proponents’ responses demonstrated their level of understanding of the City’s needs and of their proposed methods for meeting those needs. CH2M Hill team members provided detailed responses to the City’s questions demonstrating their thorough understanding of the Project.

Selecting the consultant that proposes the most suitable team and provides the best proposal minimizes the City’s risk on the overall project. Potential risks include:

- scope changes in the consultant’s budget due to unforeseen circumstances;
- delivery of a project that does not meet the City’s needs; and
- construction contract scope changes due to lack of detail in project specifications.

The General Manager of Engineering Services and the Manager of Materials Management recommend hiring CH2M Hill to complete the Project because their proposal provides the best overall value to the City.

## FINANCIAL IMPLICATIONS

On June 16, 2005, Council approved the Vancouver Landfill Phase 1 closure and landfill gas collection works at a total cost of \$11,875,000 to be funded from the Solid Waste Capital

Reserve. Funding for this Professional Engineering Services contract (\$820,611 plus GST) will be provided from the approved Phase 1 Closure project budget.

#### **ENVIRONMENTAL IMPLICATIONS**

The improvements proposed in this report are aimed at minimizing the environmental impacts resulting from operating the Vancouver Landfill.

\* \* \* \* \*