

TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: October 23, 2008

SUBJECT: PROCUREMENT AUTHORIZATION
PRINCIPAL GEO-ENGINEERING CONSULTANT FOR
TORONTO-YORK SPADINA SUBWAY EXTENSION
CONTRACT A85-77

ACTION ITEM

RECOMMENDATION

It is recommended that the Commission authorize the award of a Contract to Golder Associates Ltd. for the Principal Geo-Engineering Consultant for Toronto-York Spadina Subway Extension, in the upset limit amount of \$8,000,000.00.

FUNDING

Sufficient funds for this expenditure are included in the Toronto-York Spadina Subway Extension Project, as set out on pages 1479 to 1482 of the TTC 2009-2013 Capital Program (Category - Expansion) which was approved by the Commission on August 27, 2008.

BACKGROUND

Geo-engineering services constitute an essential part of the engineering works to gather geo-engineering information and to manage subsurface risks for the Toronto-York Spadina Subway Extension (TYSSE) Project. Professional services known collectively as Geo-Engineering Services include engineering aspects of Geological, Geotechnical, Geophysical, Geo-hydrological, and Geo-Environmental disciplines. Geo-engineering data and interpretations are needed for the design of subway tunnels, stations, bus terminals, commuter parking lots, roadways, passenger pick-up and drop-off areas, and other ancillary structures such as emergency exit buildings. Moreover, geo-environmental services consist of investigation for and assessment of impact on surficial and subsurface environmental issues to develop soil and ground water management strategies for the project and fulfill compliance requirements of environmentally related Acts and Regulations. The geo-engineering data will eventually be used to define baselines within a risk management strategy framework for the delivery of the TYSSE Project and construction contracts.

The geo-engineering services for the TYSSE Project have been separated into two general roles: Principal Geo-Engineering Consultant and Geotechnical Engineering Consultants, as follows:

- 1) The Principal Geo-Engineering Consultant will have an oversight role for geo-engineering services and will be responsible for establishing field investigation and laboratory test programs, coordinating geo-engineering works, interpreting data, providing interpretive and design reports, and a spectrum of other geo-engineering reports such as a soil and ground water management strategy report. The Principal Geo-Engineering Consultant shall assure consistency in collecting and compiling all geo-engineering factual data and interpretations and in preparing reports including, but not limited to, soil and groundwater management strategy report, geo-engineering design report, and Geotechnical Baseline Report, geo-engineering drawings and stratigraphic profiles, specifications, and other documents.
- 2) The Geotechnical Engineering Consultants will be responsible for geo-engineering (drilling boreholes along with all other relevant works) and geophysical site investigations, field, in-situ and laboratory tests, preparation of geo-engineering factual data, and other specialty geo-engineering services as required by the Commission. These services are the subject of a separate Commission Report Contract A85-78.

Separate Requests for Proposals were prepared to procure services of consulting firms to assume the roles and fulfill the corresponding responsibilities.

This recommendation is for the provision of the Principal Geo-Engineering Consultant.

DISCUSSION

A Request for Proposal for Contract A85-77, Principal Geo-Engineering Consultant for Toronto-York Spadina Subway Extension was publicly advertised on the TTC's website as of August 19, 2008. Twelve companies requested copies of the proposal documents. Two companies submitted proposals as summarized in Appendix "A".

Both proposals received were reviewed and rated by the evaluation team based on the criteria listed in Appendix "A". The recommendation for award of this contract is based on the highest rated qualified proponent with reasonable pricing.

The proposal submitted by Golder Associates Ltd. was considered superior in all aspects of the proposal requirement over the other proposal submitted. They were rated best choice overall as the proposed Project Manager and project team have the best relevant experience

and they demonstrated the best understanding of the scope of work required. Golder Associates Ltd. has previously satisfactorily performed work for the Commission.

Upon review of the confidential pricing information from Golder Associates Ltd., the all-inclusive hourly billing rates are considered fair and reasonable based on the qualifications and experience of the profile of the project team and in comparison to the previous contracts.

Golder Associates Ltd. has satisfactorily performed work for the Commission in similar capacities in the past.

JUSTIFICATION

The award of a Contract to Golder Associates Ltd. will allow Commission staff to engage the requisite geotechnical services to fulfil project geotechnical exercises, obligations, roles and responsibilities required for the Toronto-York Spadina Subway Extension.

October 7, 2008
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Attachment – Appendix 'A'

APPENDIX 'A'

PRINCIPAL GEO-ENGINEERING CONSULTANT FOR TORONTO-YORK SPADINA SUBWAY EXTENSION CONTRACT A85-77

LIST OF PROPONENTS (in alphabetical order)

1. AEON Egmond Limited

2. Golder Associates Ltd. *

* recommended company

PROPOSAL EVALUATION CRITERIA

A. CORPORATE QUALIFICATIONS/EXPERIENCE

- Background and Capabilities
- Number of Years in Business
- Depth of Available Resources at Proponent's Local Greater Toronto Area (GTA) Office
- Relevant Corporate Experience (Completed Since 1990)

B. PROJECT STAFF QUALIFICATIONS/EXPERIENCE

- i) Project Manager
 - Years of Experience
 - Academic Qualifications
 - Professional Registrations
 - Capsule Curricula Vitae
 - Experience Profile and Work of a Similar Size and Nature
- ii) Project Team/Sub-consultants
 - Years of Experience
 - Academic Qualifications
 - Professional Registrations
 - Capsule Curricula Vitae
 - Experience Profile and Work of a Similar Size and Nature

C. UNDERSTANDING OF THE WORK

- Proposed Geo-Engineering Vision and Project Methodology