TO: CHAIR AND MEMBERS
ENVIRONMENT AND TRANSPORTATION COMMITTEE
MEETING ON OCTOBER 12, 2004

FROM: RON STANDISH, P.Eng.
DIRECTOR, WASTEWATER AND TREATMENT
ENVIRONMENTAL AND ENGINEERING SERVICES

SUBJECT GREENWAY POLLUTION CONTROL CENTRE DEVICENET INTEGRATION PROJECT ES5334

RECOMMENDATION

That, on the recommendation of the Director, Wastewater and Treatment, Environmental and Engineering Services, the following actions BE TAKEN with respect to the awarding of Engineering Services for DeviceNet integration at the Greenway Pollution Control Centre, Project No. (ES5334):

(a) the proposal submitted by MVA Engineering Group Ltd, 219 Consortium Court, London, ON, N6E 2S8, at its proposed price of $195,720.00, (excluding G.S.T.) for the integration of the DeviceNet communication network into the existing Greenway Pollution Control Centre SCADA System BE ACCEPTED; it being noted that this award is in accordance with Council Policy 7(9A)(e);

(b) the financing for the Greenway Pollution Control Centre DeviceNet Integration Project BE APPROVED as set out in the Sources of Financing Report attached hereto as Appendix "A";

(c) the Civic Administration BE AUTHORIZED to undertake all the administrative acts that are necessary in connection with Greenway Pollution Control Centre DeviceNet Integration Project; and

(e) the approval given herein BE CONDITIONAL upon the Corporation entering into a formal contract or issuing a purchase order relating to this matter.

PREVIOUS REPORTS PERTINENT TO THIS MATTER


Purpose:

This submission pertains to Phase III of a five phase multi-year project. Initially, MVA Engineering Group Ltd. (MVA) was appointed by the City to carry out a report on the condition of the electrical system at Greenway Pollution Control Centre. This report determined that the system was well beyond designed life and was unstable, unreliable and needed to be replaced. Subsequently, MVA provided engineering services to the City to design the upgrade/replacement of the system.

With Phase II (Substation/equipment Installation, Tender No. 03-30) having just been completed and approval by Council on September 20, 2004 for Phase III (Electrical Upgrade Installation of new power conductors etc., Tender 04-58) will now enable the connection of all loads to this newly completed electrical distribution system.

This component of Phase III is an engineering assignment requiring strict controls to maintain plant operations. The critical nature of these works requires an engineering firm with an intimate working knowledge of all electrical and communications components of the Greenway Pollution Control Centre (PCC) and related operations. MVA’s project team are already familiar with the critical aspects of the Phase III works and of this project concerning timing, change-over requirements and implementation of the existing SCADA and PLC systems. Therefore, MVA is qualified to provide the integration of the DeviceNet communication network into the existing Greenway PCC SCADA system. MVA has provided a work program and breakdown of costs that addresses the scope and requirements of this assignment. As outlined in the proposed scope of works, MVA will provide the necessary PLC programming, logic development and modifications, change-over, start-up and commissioning to enable a working system. With their knowledge and experience on these systems, the continued use of this consultant for this assignment is to the financial advantage of the City.

Summary:

We have invested $6,400,000.00 in the construction of the new Electrical rooms/Substation, 5000 volt feeder system and associated Motor Control Center’s (MCC’s) as part of Phase I and Phase II. Phase III will connect all field equipment to the newly installed MCC’s including resident inspection and contract administration for an anticipated final cost of $2,839,445.00 as reported under BOC Report 2004-09-15, Award of Contract for Phase III of Greenway PCC Electrical System Upgrade.

This project for MVA Engineering Group Ltd. to provide the integration of the DeviceNet communication network into the existing Greenway PCC SCADA system represents excellent value to the City. Based on the above, we recommend sole sourcing MVA Engineering for this assignment. Funding for this project is available from Capital Account ES5334.

There are no additional operating costs anticipated for the 2004 and subsequent Environmental and Engineering Services budget associated with the approval of this project.
Acknowledgements:

This report was prepared by Mark Spitzig, and Perry Rose of the Pollution Control Operations Division.

<table>
<thead>
<tr>
<th>PREPARED BY:</th>
<th>RECOMMENDED BY:</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOHN E. B. FITZGERALD, P.Eng.</td>
<td></td>
</tr>
<tr>
<td>DIVISION MANAGER</td>
<td></td>
</tr>
<tr>
<td>POLLUTION CONTROL OPERATIONS</td>
<td></td>
</tr>
<tr>
<td>RON STANDISH, P.Eng.</td>
<td></td>
</tr>
<tr>
<td>DIRECTOR, WASTEWATER AND TREATMENT</td>
<td></td>
</tr>
<tr>
<td>ENVIRONMENTAL AND</td>
<td></td>
</tr>
<tr>
<td>ENGINEERING SERVICES</td>
<td></td>
</tr>
</tbody>
</table>

September 27, 2004

MS/PR/pr

Attach: Appendix "A" – Sources of Financing

c.c. Peter W. Steblin, General Manager of Environmental and Engineering Services and City Engineer

MVA Engineering Group Ltd.

Y:\Shared\proselGREENWAY PCC ELECTRICAL UPGRADE PH 3\BOC REPORTS/ Award of work to MVA for Devicenet Integration/Copy of Greenway ElDevicenet Integration BoardReport final.doc
APPENDIX 'A'

Chair and Members
Environment and Transportation Committee

RE: Greenway Pollution Control Centre DeviceNet Integration
ES6334 Greenway PCC Electrical Upgrade
MVA Engineering Group Ltd. - $195,720

September 27, 2004
(Appoint Consulting Engineer)

FINANCE AND CORPORATE SERVICES DEPARTMENT REPORT ON THE SOURCES OF FINANCING:
The Director of Financial Planning and Policy confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Director, Wastewater & Treatment, the detailed source of financing for this project is:

<table>
<thead>
<tr>
<th>Approved Budget</th>
<th>Committed To Date</th>
<th>This Submission</th>
<th>Balance for Future Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering</td>
<td>$1,805,043</td>
<td>$1,609,323</td>
<td>$195,720</td>
</tr>
<tr>
<td>Construction</td>
<td>10,947,204</td>
<td>8,119,157</td>
<td></td>
</tr>
</tbody>
</table>

NET ESTIMATED EXPENDITURES

<table>
<thead>
<tr>
<th>Approved Budget</th>
<th>Committed To Date</th>
<th>This Submission</th>
<th>Balance for Future Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering</td>
<td>10,947,204</td>
<td>8,119,157</td>
<td>2,828,047</td>
</tr>
</tbody>
</table>

TOTAL FINANCING

<table>
<thead>
<tr>
<th>Approved Budget</th>
<th>Committed To Date</th>
<th>This Submission</th>
<th>Balance for Future Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Debenture By-law No. W.-1752(b)-98</td>
<td>$12,752,247</td>
<td>$9,728,480</td>
<td>$195,720</td>
</tr>
</tbody>
</table>

Note:
There are no additional operating costs anticipated for the 2004 and subsequent Environmental and Engineering Services budget associated with the approval of this project.

JG

Martin Hayward
Director of Financial Planning & Policy