

REGIONAL MUNICIPALITY OF OTTAWA-CARLETON  
MUNICIPALITÉ RÉGIONALE D'OTTAWA-CARLETON

REPORT  
RAPPORT

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Our File/N/Réf. Your File/V/Réf.	<b>50 18-97-0014-V</b>
DATE	10 August 1998
TO/DEST.	Co-ordinator Corporate Services and Economic Development Committee
FROM/EXP.	Environment and Transportation Commissioner
SUBJECT/OBJET	<b>BRITANNIA &amp; LEMIEUX ISLAND WATER PURIFICATION PLANTS - SPILL CONTAINMENT CONTRACT CW-8632 AND CONSULTANT APPOINTMENT CC-8612</b>

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### DEPARTMENTAL RECOMMENDATIONS

**That the Corporate Services and Economic Development Committee approve:**

- 1. The award of Contract CW-8632 for the construction of spill containment facilities at the Britannia & Lemieux Island Water Purification Plants to George W. Drummond Limited, Nepean, for a total contract provision of \$460,348;**
- 2. A modification to Contract CC-8612 with CH2M Gore & Storrie, Ottawa, for engineering services for the next phase of the project including Programmable Logic Control (PLC) programming, commissioning and construction administration services for the Water Purification Plants spill containment facilities in the amount of \$75,474, bringing the revised total contract provision to \$100,474.**

### BACKGROUND

Both the Britannia and Lemieux Island Water Purification Plants have recently undergone significant chemical facility upgrades. The final aspect of this work is to provide chemical containment facilities at both plants to deal with the scenario of a major liquid chemical spill. The designs provide liquid chemical containment facilities such that any chemical spilled during chemical off-loading will be contained preventing discharge to the Ottawa River overland or through the storm drainage systems.

Construction of these facilities is scheduled for completion by the end of December 1998.

## RATIONALE

Tenders for Contract CW-8632 (excluding G.S.T.) were received as follows:

<u>Contractor</u>	<u>Tender Bid</u>
George W. Drummond Limited, Nepean	\$391,120
J. C. Sulpher Construction, Gloucester	\$429,063
C.A.C.E. Construction Ltd., Gloucester	\$435,330

The Departmental estimate (excluding G.S.T.) is \$362,300 and is under the lowest bid.

Based on the review of the tender documents, the Department recommends acceptance of the tender from the low bidder, George W. Drummond Limited, Gloucester. The requested contract award of \$391,120, plus an allowance of \$39,112 for contract variations due to unforeseen conditions, and \$30,116 for the G.S.T. allowance, brings the total contract award to \$460,348.

CH2M Gore & Storrie (CG&S) was the consultant involved in upgrading both the Britannia and Lemieux Island Water Purification Plants chemical storage and feed systems. Services provided included; design, SCADA programming, operator training and construction administration services. The scope of the design work did not originally include a review of the outside stormwater drainage system.

During commissioning of the chemical feed and storage system it was recognized that with the exception of minor spills, outside facilities for the containment of accidental chemical spills was not provided at either Water Purification Plant. CG&S were selected for the design of the spill containment system because it required an intimate knowledge of the new chemical storage and feed systems in order to properly integrate these facilities through the SCADA system.

The proposed design provides containment facilities for major spills (up to full tanker truck volumes) to prevent any chemical spill from discharging directly to the Ottawa River through the stormwater drainage systems.

As the designers of the spill containment facilities, CG&S are therefore uniquely suited to carry out the next phase of the project including supervision of construction activities, completion of the SCADA programming, staff training and commissioning.

The recommended contract provision of \$75,474, including contingency allowance for unforeseen variations and G.S.T. results in a total revised contract provision of \$100,474.

## CONSULTATION

The public consultation process is not applicable.

EXPENDITURE JUSTIFICATION

Modifications to the chemical unloading areas at both the Britannia and Lemieux Island Water Purification Plants will prevent serious environmental damage should a liquid chemical spill occur due to mechanical failure of unloading equipment or operator error.

FINANCIAL STATEMENT

	922-41710	922-41760
	\$	\$
Approved Budget to Date	43,845,949	1,518,000
Total Paid & Committed	<u>(42,950,618)</u>	<u>(369,464)</u>
Balance Available	895,331	1,148,536
THIS REQUEST	<u>(330,290)</u>	<u>(205,532)</u>
Balance Remaining	<u>565,041</u>	<u>943,004</u>

Funds are available in the 1998 Capital Budget, Account No. 922-41760 Water Division Facilities Upgrade Programme (Reference page 444) for the Britannia Water Purification Plant Spill Containment Works and from the Lemieux Island Rehabilitation Programme, Account No. 922-41710, (Reference page 444) for the Lemieux Island Water Purification Plant Spill Containment Works.

*Approved by  
M.J.E. Sheflin, P.Eng.*

MS/jw

FINANCE DEPARTMENT COMMENT

Funds are available as indicated.

*Approved by T. Fedec  
on behalf of the Finance Commissioner*