

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

REPORT
RAPPORT

Our File/N/Réf. 31 18-96-0018-W
Your File/V/Réf.

DATE 20 March 1997

TO/DEST. Co-ordinator
 Corporate Services and Economic Development Committee

FROM/EXP. Environment and Transportation Commissioner

SUBJECT/OBJET **FLEET STREET PUMPING STATION
HYDRAULIC CAPACITY STUDY
CONTRACT CA9315
CONSULTANT APPOINTMENT**

DEPARTMENTAL RECOMMENDATION

That the Corporate Services and Economic Development Committee and Council approve the appointment of Delcan Corporation, Ottawa, to provide engineering services for a study of the hydraulic capacity of the Fleet Street Pumping Station (Contract CA9315), for a total contract provision of \$88,785.

BACKGROUND

The Fleet Street Pumping Station has utilized water driven turbines to pump potable water to the distribution system within the central core of the City of Ottawa since it was constructed in 1874. Due to its age and unique mechanical systems the station has been designated as both a heritage facility within the City of Ottawa and a facility of historical water treatment and distribution significance by the American Water Works Association.

Rehabilitation and modification of deteriorated portions of the pumping station and its components are required to maintain effective operations. Prior to proceeding with this work it is appropriate to determine the ultimate hydraulic capacity of the pumping station and whether additional power generation is technically and economically feasible. Required short term improvements to the facility include replacement of the sluice gates and discharge piping which could impact upon the ultimate capacity at the facility.

RATIONALE

This study will provide alternatives for the optimum utilization of the facility and give direction to the required rehabilitation and modification work. The study will determine the pumping station's existing and ultimate capacity for the following major components: turbines; pumps; suction and discharge piping; and channel hydraulics in the aqueduct, fore bay and tailrace. The potential for power generation will also be analysed. The duration of the proposed study is approximately four months.

Proposals were received from four local consulting firms with turbine, power generation and water distribution experience; all of whom were interviewed for the study assignment. Delcan Corporation was selected by a panel of staff based on the merits of their proposal which included an assessment of staff capabilities, experience, project methodology.

This report seeks approval for the engineering fees in the amount of \$75,500, plus \$5,285 G.S.T. and a contingency allowance of \$8,000 for a total fee of \$88,785.

CONSULTATION

The public consultation process is not applicable.

EXPENDITURE JUSTIFICATION

This study will identify efficiencies in water delivery and investigate the cost-effective use of power generation at this unique facility thereby ensuring the Region continues to provide its customers with a secure and high quality potable water system at the lowest cost.

FINANCIAL STATEMENT

	\$
Approved Budget to Date	1,070,000
Total Paid & Committed	<u>(7,000)</u>
Balance Available	1,063,000
THIS REQUEST	<u>(88,875)</u>
Balance Remaining	<u>974,125</u>

Funds will be provided in the 1997 Capital Budget, Account No. 922-41754, (Reference page 255).

*Approved by D. Brousseau
on behalf of
M.J.E. Sheflin, P.Eng.*

MS/jb

FINANCE DEPARTMENT COMMENT

Funds are available as indicated.

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