

REGION OF OTTAWA CARLETON

REPORT

RÉGION D'OTTAWA CARLETON

RAPPORT

Our File/N/Réf.           **50** 19-99-0012-V  
 Your File/V/Réf.

DATE                           20 December 1999

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

FROM/EXP.                 Environment and Transportation Commissioner

SUBJECT/OBJET           **MUNSTER HAMLET - WASTEWATER TREATMENT FACILITY  
 - ENGINEERING DESIGN AND CONSTRUCTION  
 MANAGEMENT - CONTRACT ETL99-2036**

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### **DEPARTMENTAL RECOMMENDATION**

**That the Corporate Services and Economic Development Committee and Council approve the award of Contract ETL99-2036 to Doran Contractors Ltd. for the provision of Engineering Design and Construction Management Services related to the construction of a Pumping Station and pipeline from Munster Hamlet to Richmond, in the amount of \$1,191,332.**

### **BACKGROUND**

The existing wastewater treatment facility in Munster Hamlet consists of a lagoon and spray irrigation system that has several limitations. The lagoons have insufficient capacity for treatment of flows to the facility and the spray field is undersized. In addition, the structural integrity of the lagoons is poor, resulting in inadequate containment of the wastewater. An Environmental Study Report (ESR) completed in 1996, recommended an upgrade and expansion of the existing lagoon and spray irrigation system.

On 11 March 1998, Council directed that a review be conducted by an independent engineering firm of new and innovative technologies as well as those reviewed in the 1996 Environmental Study Report. As a result of this direction, the firm of Conestoga-Rovers and Associates (CRA) was retained to complete the work and their final report was considered by Planning and Environment Committee on 10 November and by Council on 25 November 1998.

The evaluation of alternatives included an extensive public and government consultation process. This consultation took the form of the creation of an eleven member Public Liaison Committee (PLC), two formal public meetings, five community newsletters and solicitation of input from various government agencies at two different stages of the project.

The evaluation included information received from the private sector through a Request for Proposal process that saw the submission of five proposals to deal with the sewage treatment needs of the community. These proposals were exhaustively reviewed in the evaluation process.

The report prepared by CRA identified that the preferred solution for addressing the wastewater treatment requirements for Munster Hamlet is to construct a pipeline to convey the wastewater to the Region's wastewater collection system. Subsequent to this recommendation, a Route Selection Process was undertaken. The preferred route for the pipeline was determined to be one running into Richmond and connecting directly into the Pumping Station wet well.

This information was summarized in an addendum to the original Environmental Study Report and was submitted to the MOE and placed on the public record for review. There were several 'Bump-Up' requests which were reviewed by the MOE and subsequently rejected in late October 1999.

In addition to the Environmental Assessment, a Regional Official Plan Amendment was required to connect the Munster system to the Regional collection system as it was not shown in the Official Plan. There were several appeals to the Ontario Municipal Board on the proposed amendment and a pre-hearing has been scheduled for 21 January 2000 with the full hearing likely to be held in late March or early April 2000.

## RATIONALE

On 14 July 1999, Council directed that " Staff be directed to enter into negotiations with the Taggart Construction Limited/Thorburn Penny Limited/Oliver Mangione McCalla & Associates group to proceed with the completion of the Munster Hamlet Wastewater Treatment pipeline and associated works by construction management."

Once the MOE had rejected the 'Bump-Up' requests, the only item to be resolved was the OMB Appeals. As a decision from the OMB is unlikely before July 2000, it was felt that in order to exercise due diligence with respect to complying with our MOE Certificate of Approval, design work should begin as soon as possible. To that end, negotiations began with the consortium.

As a result of the negotiations, it was agreed that the consortium would provide all the required Engineering Services for the completion of the design and all required Construction Management services to implement the final design.

Engineering Services to be provided include:

- a) Review of geo-technical information obtained;
- b) Preparation of Pre-design report;
- c) Completion of detailed design including specifications and drawings for all aspects of the pipeline, pumping station and required remedial measures;
- d) Tendering of the various design packages including a post-tender report making recommendations for the award of contracts;
- e) Preparation of applications for all required approvals and permits.

Contract administrative services to be provided include:

- a) Verification and approval of contractor's monthly billings, the preparation and justification of change orders, the review and evaluation of contractor's claims;
- b) Review of shop drawings, the review and approval of alternate materials, the review of alternate methods and equipment requested by the contractor;
- c) Review and resolution of contractual disputes arising from conflicting interpretations of the contract documents;
- d) Monitoring of the contractor's work with regards to work schedules;
- e) Securing from authorities the necessary approvals and permits for the project;
- f) Preparation of record drawings, the review/preparation of maintenance and operation manuals, the provision of technical support during the commissioning and warranty periods;
- g) Chairing and minute-taking of regular project co-ordination meetings.

Inspection services to be provided include:

- a) Review of the contractor's work to ensure compliance with the requirements of the contract documents;
- b) Surveying and field stakeout for the layout control, and calculation of pay quantities for the work performed;

- c) Calculation and recording of quantities and the preparation of progress and final payment certificates, the compilation of survey notes, daily diaries, records and reports substantiating progress during construction and on completion of work;
- d) Routing testing of compaction of backfill materials and air content and slump measurement of concrete, to verify conformance with the specifications;
- e) Monitoring of a commissioning programme to test the performance of all systems constructed before final approval;
- f) Performing final inspections at the conclusion of the construction contract and the preparation and verification of deficiency reports.

Preliminary surveying and geo-technical work was commissioned and completed prior to the onset of winter conditions in order to allow the design work to proceed during the winter months if necessary. This work was undertaken under a separate authority.

It must be noted that the possibility exists that the amendment will not be approved by the Board. However, given that the "Bump-up" requests for an Individual Environmental Assessment were dismissed by the Ministry of the Environment and given the pressing need to put in place an alternative to the existing lagoons, staff believe that the risk in proceeding at this time with the design phase of this assignment is an acceptable one. The design phase constitutes approximately 50% of the work. It should be noted that, as with all consultant assignments of this type, the contract can be terminated at any time with the Region incurring only the costs for the work completed until Notice to Terminate is given.

Based on these negotiations, staff recommend that Contract ETL99-2036 be awarded to Doran Contractors Ltd. (parent company of Taggart Construction Ltd.) for the provision of Engineering Design and Construction Management Services in the amount of \$1,191,332. This includes a contract amount of \$968,170, G.S.T. in the amount of \$77,937 and a provision for variations in the amount of \$145,225.

### SCHEDULE

Once approval has been received for this phase of the work, it is anticipated that the work can be tendered by June 2000. This work is pending a ruling from the Ontario Municipal Board on the appeals that had been received. The pre-hearing is scheduled for January 2000 with a full hearing anticipated in late March or early April. As it can take several months for a ruling to be handed down, ETD would like to be in a position to tender the work immediately upon receipt of the ruling. The construction work could then be completed by late spring or early summer of 2001. These dates are tentative and may be affected by the outcome of the OMB Hearing and subsequent ruling.

CONSULTATION

All public consultation required as part of the Class Environmental Assessment process has occurred.

EXPENDITURE JUSTIFICATION

This work is required in order to comply with the provincially legislated Class Environmental Assessment process and to maintain compliance with our Certificate of Approval.

FINANCIAL STATEMENT

	\$
Approved Budget to Date	5,927,446
Total Paid and Committed	<u>(3,064,559)</u>
Balance Available	2,862,887
THIS REQUEST	<u>(1,191,332)</u>
Balance Remaining	<u><u>1,671,555</u></u>

Funds have been provided in the 1999 Capital Budget, Account No. 932-42035 (Order No. 900221), Munster Lagoon Rehabilitation and Upgrade, Purchase Requisition No. 10036925.

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

SF/jw

SUPPLY MANAGEMENT DIVISION

I concur,

*G. Ford on behalf of  
the Finance Commissioner*

FINANCE DEPARTMENT COMMENT

Funds are available as indicated.

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