

3

CLOSED CIRCUIT TELEVISION SEWER INSPECTIONS AND ASSESSMENT CONSULTANT AWARD

The Environmental Services Committee recommends the adoption of the recommendation contained in the following report dated October 26, 2009, from the Commissioner of Environmental Services.

1. RECOMMENDATION

It is recommended that:

1. Regional Council authorize retaining the consulting firm of Andrews Infrastructure to provide engineering services for Closed Circuit Television (CCTV) sanitary sewer inspections and assessment at a cost not to exceed \$313,950 inclusive of GST.

2. PURPOSE

This report seeks the authorization to retain the proponent recommended by Environmental Services staff to support the Region's sewer inspections program.

The Purchasing By-law requires Council authorization to award Requests for Proposals when the recommended proponent does not have the lowest cost.

3. BACKGROUND

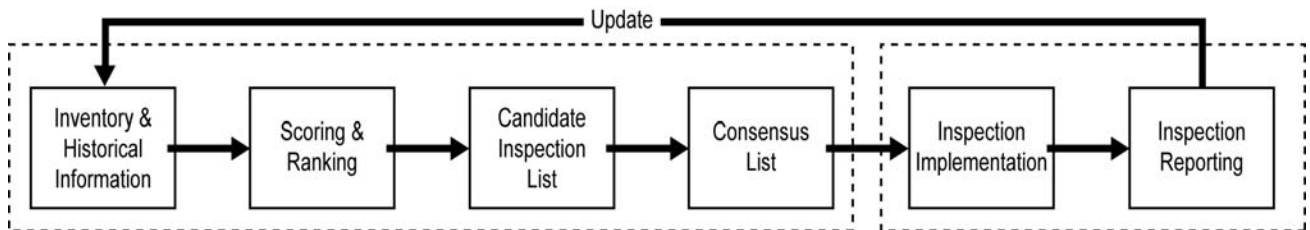
24.6 kilometres of York Region's sanitary sewer identified for closed circuit television inspections in the Town of Markham, City of Vaughan, Town of Richmond Hill and Town of Aurora

Environmental Services has an infrastructure management program to monitor performance of the Region's water and wastewater infrastructure through comprehensive inventory, inspection, condition assessment, and maintenance initiatives. The focus of this program is to identify any deficiencies at Regional facilities so as to determine timely, optimized and cost-effective inspection, maintenance, renewal, rehabilitation, and replacement measures.

The intent of the sewer inspection program, which is a key component of the infrastructure management program, is to monitor performance of the Region's sewers through CCTV technology to identify any defects.

As deterioration of the sewers is an on-going process, a screening methodology has been established so that the sewers can be prioritized and scheduled for timely CCTV inspection in a cost-effective manner, while the deterioration of the sewers is under close monitor and control. This screening process is outlined in Figure 1.

Figure 1



The 24.6 kilometres of large diameter gravity sanitary sewers listed in the scope of the CCTV inspection and assessment project has been identified using this screening methodology. *Attachment 1* shows the locations of the sewers to be inspected.

4. ANALYSIS AND OPTIONS

Request for Proposal issued for CCTV inspection and assessment services

In accordance with the Purchasing By-law, a Request for Proposal (RFP) was issued and eleven companies picked up the RFP.

The following scope of services was identified in the RFP:

- CCTV inspections of large diameter sewers.
- CCTV inspection coordination and management, including QA/QC, site investigation/assessment and status reports.
- Sewer condition and assessment reporting.
- Develop/prepare a safe work plan, traffic control plan and road occupancy permits.

Proposals were evaluated using the two envelope system

Two proposals were received and evaluated using the two envelope system with technical and financial information submitted in separate envelopes. Technical proposals were evaluated prior to any knowledge of financial information. Technical content was weighted at 70%.

The Region's proposal evaluation team reviewed the two technical/management proposals based on the following criteria headings:

- Firm/project manager/key staff credentials, years of experience in project management and CCTV inspections and assessment projects.
- Quality of references.
- Demonstrated understanding of Regional requirements.
- Methodology for Quality Assurance and Control for complex sewer inspections.
- Quality of methodology and approach for complex sewer inspections.
- Compliance with RFP.

The financial evaluation composed the remaining 30% of the total evaluation. Technical and financial results are summarized in Table 1 below. A technical score of 42 points, or 60% of the technical points was required to open the financial proposal. Both companies met the minimum technical score required.

Table 1
Consultant Proposal Evaluation Summary

Name of Company	Technical Score (70%)	Financial Score (30%)	Total Score (100%)	Total Price Inclusive of GST
Andrews Infrastructure	52.40	29.20	81.60	\$313,950.00
Capital Sewer Services Inc.	44.60	30.00	74.60	\$305,157.00

Proposals were evaluated resulting in Andrews Infrastructure with the highest score

The recommended proponent with the highest score of greater than five total overall points was Andrews Infrastructure Inc. Their proposal demonstrated a clear understanding of the projects varied requirements as well as providing an experienced team committed to working with Environmental Services staff and other third parties as required.

5. FINANCIAL IMPLICATIONS

The upset limit fee for the proposed work is \$313,950.00, including GST. Funding for the project is included in the Region's 2009 Capital Budget and 10-Year Capital Program.

This cost includes the CCTV sewer inspections, project management and QA/QC, site investigations and assessment, sewer condition assessment and reporting.

6. LOCAL MUNICIPAL IMPACT

The York Region sewer inspections program benefits all nine local municipalities by ensuring that their wastewater is properly conveyed when it has reached the Region's wastewater collection systems. With the use of CCTV sewer inspections the Region can identify if there are any deficiencies which may affect the local municipal sewer systems. As shown in *Attachment 1*, parts of Region's gravity sewer system located within the Town of Markham, the City of Vaughan, the Town of Richmond Hill, and the Town of Aurora will be inspected in 2010. Table 2 below shows the length of the Region's gravity sewer system to be inspected in each local municipality.

Table 2
Location and Sewer Length to be Inspected

Local Municipality	Length (km)
Town of Markham	15.8
City of Vaughan	6.5
Town of Richmond Hill	0.07
Town of Aurora	2.3

The sewer inspection program is also directly related to the York and Local Municipal Inflow and Infiltration Reduction Program, which also benefits the Region and all nine local municipalities.

7. CONCLUSION

Environment Services staff reviewed two proposals for the provision of engineering services for the Region's sewer inspections program in accordance with Regional procedures and the Purchasing By-law. It is recommended that the Region retain the firm with the highest score, Andrews Infrastructure, at a cost of \$313,950.00, inclusive of GST.

For more information on this report, please contact Brett Bloxam, Director, Operations, Maintenance and Monitoring at Ext. 5320.

The Senior Management Group has reviewed this report.

(The attachment referred to in this clause is attached to this report).

The Regional Municipality of York CCTV Inspection Map for Gravity Sewers 2010

