

# MINUTES

## PUBLIC UTILITIES COMMISSION

CIVIC CENTRE  
ROOM 212

JULY 9, 2007  
3:00 PM

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PRESENT: Chairman Bryon Fluker, Commissioners Steve Pinsonneault, Frank Vercooteren, Mayor Randy Hope, and General Manager Scott Praille.

ABSENT: Commissioners Steve Pickard, Sheldon Parsons, Joe Faas, A/CAO Gerry Wolting, Senior Level Advisor Jack Sonneveld and Facilities and Systems Manager, Rob Bernardi.

### 1. CALL TO ORDER

Chairman Fluker called the meeting to order at 3:13 PM.

### 2. DECLARATION OF PECUNIARY INTEREST

NONE

### 3. REPORTS

a) Award of Tender: McNaughton Ave E Watermain Replacement

MUNICIPALITY OF CHATHAM-KENT  
INFRASTRUCTURE AND ENGINEERING SERVICES  
PUBLIC UTILITIES COMMISSION

TO: PUC Chairperson and Commissioners  
FROM: Stephen E. Jahns, B.A.Sc., P.Eng., CMMIII  
Manager, Infrastructure and Transportation  
Engineering and Transportation Division  
DATE: July 4, 2007  
SUBJECT: Tender Award: Contract T07-155  
McNaughton Avenue East Watermain Replacement  
Community of Chatham, Municipality of Chatham-Kent

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### RECOMMENDATION

It is recommended that:

1. The tender in the amount of \$ 280,898.90 including GST for the McNaughton Avenue East Watermain in the Community of Chatham be awarded to Sherway Contracting (Windsor) Limited.

### BACKGROUND

The watermain replacement on McNaughton Avenue East between Michener Road and the Chesapeake and Ohio Railroad in the Community of Chatham was identified as a project in the 2007 lifecycle water budget approved by the Public Utilities Commission (PUC). The existing watermain consists of a 150 mm diameter cast iron line. This existing watermain is approximately 50 years old and has a history of frequent breaks requiring numerous emergency repairs.

In addition, PUC staff have received complaints from area residents regarding pressures and confirmed these concerns with residual pressures and fire flows in this area by undertaking hydrant flow testing. The replacement of the existing lines with 300mm poly vinyl chloride (PVC) pipe will enhance the pressure, distribution grid and provide additional fire protection to the surrounding neighbourhood.

Todgham & Case Associates carried out the project engineering. The Purchasing Officer received and opened tenders for the work on July 3, 2007.

The results are as indicated in the following table:

CONTRACT T07-155 McNAUGHTON AVENUE EAST WATERMAIN COMMUNITY OF CHATHAM		
Rank	Tenderer	Tender Amount (incl. GST)
1	Sherway Contracting (Windsor) Ltd Windsor, Ontario.	\$ 280,898.90
2	G.W. Clarke Drainage Contractor Ltd Blenheim, Ontario.	\$ 307,245.74
3	Henry Heyink Limited Chatham, Ontario.	\$ 331,296.64

Todgham & Case Associates has reviewed the tenders and advised that the tenders are complete in all respects. The consultant has indicated that the low bid is approximately 6% over the engineer's estimate and 8% below the average of all bids received. A copy of the letter of recommendation is attached in Appendix A.

Staff concurs with the recommendation to award the tender to Sherway Contracting (Windsor) Limited who submitted the lowest tender bid.

#### COMMENTS

The project consists of the installation of a new 300mm diameter replacement watermain on McNaughton Avenue East from Michener Road to the Chesapeake and Ohio Railroad in the Community of Chatham. The project includes new private water service connections, fire hydrants and all necessary appurtenances (valves, tees, etc.). Due to a very congested road allowance, the watermain will be aligned beneath the asphalt pavement forming the road surface. As part of this contract, asphalt pavement will be replaced over all trenches created to successfully complete this work. Consideration for final surface asphalt will be reviewed at a later date in conjunction with the Municipalities urban asphalt pavement resurfacing program.

A site map of the project extents has been attached in Appendix B.

The project breakdown is summarized in the Financial Implications section of this report.

#### COMMUNITY STRATEGIC PLAN

The recommendations in this report supports the following objective and strategic direction:

##### **B. Economy – We are a prosperous community**

##### **B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities**

#### Desired Outcomes / Proposed Activities

- **Support new infrastructure investments and modernize existing infrastructure**

The recommendations will not adversely impact on the remainder of the Community Strategic Plan.

#### CONSULTATION

The Tenders were opened by the Purchasing Officer and reviewed by the Tendering Committee comprised of the Purchasing Officer, Corporate Services, the Manager, Financial Services/Treasurer, Corporate Services and the Director, Engineering and Transportation Division, Infrastructure and Engineering Services.

The General Manager of Water and Wastewater Services was consulted in the preparation of this report and supports the recommendation.

#### FINANCIAL IMPLICATIONS

The project summary is set out in the following table.

<b>CONTRACT T07-155</b> <b>McNAUGHTON AVENUE EAST WATERMAIN</b> <b>COMMUNITY OF CHATHAM</b>		
A) Project Funding:	2007 Watermain Replacement Budget	\$ 1,250,000.00
B) Project Costs:	Low Tender, incl. GST	\$ 280,898.90
	Engineering Design & Inspection	\$ 42,000.00
	Less GST Rebate 6%	-\$ 15,899.94
	<b>Project Total</b>	<b>\$ 306,998.96</b>
C) Watermain Replacement Budget Update	Total Approved Budget	\$ 1,250,000.00
	Previously Approved	-\$ 171,793.79
	Current Project	-\$ 306,998.96
	<b>Balance Remaining</b>	<b>\$ 771,207.25</b>

Prepared by:

Reviewed by:

\_\_\_\_\_  
 Stephen E. Jahns, P.Eng., CMMIII  
 Manager, Infrastructure and Transportation  
 Engineering and Transportation Division

\_\_\_\_\_  
 Gary Northcott, P. Eng.  
 Director  
 Engineering and Transportation Division

Reviewed by:

Reviewed by:

\_\_\_\_\_  
 Leo Denys, P. Eng.  
 General Manager  
**Infrastructure and Engineering Services**

\_\_\_\_\_  
 Acting Chief Administrative Officer  
 Gerry Wolting, B.Math, CA

**Moved by Commissioner Pinsonneault and seconded by Mayor Hope.**

**“That the tender in the amount of \$ 280,898.90 including GST for the McNaughton Avenue East Watermain in the Community of Chatham be awarded to Sherway Contracting (Windsor) Limited.”**

**Motion carried**

b) Award of Tender: Combined Sanitary Sewer Evaluation (Chatham)

MUNICIPALITY OF CHATHAM-KENT  
 INFRASTRUCTURE AND ENGINEERING SERVICES  
 PUBLIC UTILITIES COMMISSION

TO: PUC Chairperson and Commissioners

FROM: Stephen E. Jahns, B.A.Sc., P.Eng., CMMII  
 Manager, Infrastructure and Transportation  
 Engineering and Transportation Division

DATE: July 4, 2007

SUBJECT: Award of Tender: T07-147  
 Combined Sanitary Sewer Evaluation  
 Community of Chatham, Municipality of Chatham-Kent

**RECOMMENDATIONS**

It is recommended that:

1. The tender in the amount of \$111,973.10 (\$105,635.00 + GST) be awarded to the firm of Capital Commercial Pipe Services Limited of Hamilton, Ontario.

**BACKGROUND**

Over the past year, Chatham-Kent PUC has received a number of reports from Engineering and Transportation Division which have outlined the results of sanitary and combined sewer investigations conducted within the Municipality of Chatham-Kent. Such reports have typically been of a reactive nature in that these investigations sought to identify the cause(s) of existing issues being experienced

with sewers within a particular community or neighborhood within the Municipality. Such issues may include poor conveyance of flows, continued maintenance issues, and possibly even flooding.

The award of this tender marks a departure from such reactive investigations as the 2007 PUC Lifecycle Sanitary Sewer Budget has been developed to include allowances for the planned and systematic inspection of both sanitary and combined sewers within the urban communities of Chatham-Kent. By phasing the work over a five or six year cycle, this process seeks to investigate the vast majority of such sewer infrastructure.

Tenders were let in June, 2007 and were received and opened on July 3, 2007 by the Purchasing Officer. The results are as presented in the following table:

Table 1 - Tender Results Contract T07-147 Combined Sanitary Sewer Evaluation Community of Chatham, Municipality of Chatham-Kent		
Rank	Bidder and Location	Tender Amount (including GST)
1	Capital Commercial Pipe Services Limited Hamilton, Ontario	\$111,973.10
2	Sewer Maintenance Systems – Kingsville, Ontario	Returned letter stating no bid to be submitted

Engineering and Transportation Division has reviewed the tenders and notes that they are complete in all respects. All fees associated with this project will be funded through the 2007 PUC Lifecycle Sanitary Sewer Budget. A detailed financial breakdown associated with this project is provided in the Financial Implications section of this report.

COMMENTS

In late 2006, Engineering and Transportation Division developed the 2007 PUC Lifecycle Sanitary Sewer Budget which included allowances for the planned and systematic inspection of both sanitary and combined sewers within the urban communities of Chatham-Kent. In late 2006 and early 2007, Engineering and Transportation Division, in dialogue with the PUC and its supervisory staff, undertook to develop the first wave of tenders associated with this work.

The tenders include the following scope of work so as to evaluate and document the existing sewer infrastructure within the study areas:

- flushing of sanitary sewer lines
- cctv inspection to document existing condition
- fog testing
- maintenance hole inspection

Flushing of sanitary sewer lines serves the purpose of cleansing existing lines of any accumulated matter and affords evaluators a clearer view of the sewer infrastructure during evaluation by closed circuit television methods. CCTV inspection also allows the PUC delivery of video or DVD copies of all inspections should they be required for reference in future years.

Fog testing is the process of forcing “fog” filled air into the sewer system. The fog under pressure will fill the line and any connections. Whether in a municipal mainline sewer, residential or industrial system, breaks or illegal taps in the sewer line will allow the fog to escape and surface through the ground or pipe work quickly revealing the source of the problem.

The process of fog testing sees a non-toxic “fog” introduced into the existing system. Additional pressure (only enough to overcome atmospheric pressure) is introduced to facilitate dispersion of the fog throughout the entire system. Provided openings exist for the fog to flow, fog tests are effective, regardless of surface characteristics, soil make-up and depth of sewer lines.

Fog testing is the most cost effective and efficient way to locate infiltration (inflow) and exfiltration (outflow) problems in sewer systems. It is used to find leaks, inflow sources and most restrictive conditions within the sewer lines. Fog testing is also an extremely efficient method for tracking piping systems and other mapping purposes.

The work identified within this contract is located within the area identified in Appendix A and seeks to evaluate 19.3 kilometres of sanitary sewer lines and 285 maintenance holes structures.

Prior to the commencement of any work, the contractor is required to circulate notices to area residents advising them of the work schedule and details regarding the nature of the work to be done.

COMMUNITY STRATEGIC PLAN

The recommendations in this report support the following objectives and strategic directions:

A. Health – We are a healthy community

- A1: Provide sufficient capacity to sustain community health and economic growth

B. Economy – We are a prosperous community

- B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities

Desired Outcomes/Proposed Activities

- Support new infrastructure investments and modernize existing infrastructure

The recommendations will not adversely impact on the remainder of the Community Strategic Plan.

CONSULTATION

The tenders were developed by Engineering and Transportation Division and consider operational information brought forward by PUC and Public Works Supervisory Staff.

The tenders were opened by the Purchasing Officer and reviewed by the Tendering Committee comprised of the Purchasing Officer, Corporate Services, the Director, Financial Services/Treasurer, Corporate Services and the Director, Engineering and Transportation Division, Infrastructure and Engineering Services.

The General Manager, Chatham-Kent PUC was consulted in the preparation of this report and supports the recommendation.

FINANCIAL IMPLICATIONS

The project summary is set out in the following table.

Table 2 – Financial Implications Contract T07-147 Combined Sanitary Sewer Evaluation Community of Chatham, Municipality of Chatham-Kent			
A) Project Costs	Low Tender (incl. GST)	\$	111,973.10
	Engineering Design & Inspection	\$	0.00
	Less GST Rebate 6%	-\$	6,338.10
	<b>Project Total</b>	<b>\$</b>	<b>105,635.00</b>
B) Lifecycle Sanitary Sewer Budget Update Summary	Total Approved 2007 Budget	\$	1,600,000.00
	<u>Previously Approved Projects:</u>		
	T07-148 Sanitary Sewer Evaluation Dresden	-\$	14,108.02
	T07-150 Sanitary Sewer Evaluation Ridgetown	-\$	22,024.98
	T07-151 Sanitary Sewer Evaluation Thamesville	-\$	6,733.95
	T07-146 Sanitary Sewer Evaluation Blenheim	-\$	26,696.30
	T07-149 Sanitary Sewer Evaluation Mitchell's Bay	-\$	13,342.25
	T07-153 Sanitary Sewer Evaluation Wallaceburg	-\$	48,213.16
	T07-154 Sanitary Sewer Evaluation Wheatley	-\$	21,576.00
	T07-152 Sanitary Sewer Evaluation Tilbury	-\$	30,426.00
	<u>Current Project:</u>		
T07-147 Sanitary Sewer Evaluation – Chatham	-\$	105,635.00	
<b>Balance Available</b>	<b>\$</b>	<b>1,311,244.34</b>	

Prepared by:

Reviewed by:

\_\_\_\_\_  
Stephen E. Jahns, B.A.Sc., P.Eng., CMM II  
Manager, Infrastructure and Transportation  
Division Infrastructure and Engineering Services

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Gary Northcott, P. Eng.  
Director, Engineering and Transportation Engineering and Transportation  
Infrastructure and Engineering Services

Reviewed by:

Approved by:

\_\_\_\_\_  
Leo Denys, P. Eng.  
General Manager  
Infrastructure and Engineering Services

\_\_\_\_\_  
Acting Chief Administrative Officer  
Gerry Wolting, B.Math, CA

**c) Award of Tender: Sanitary Sewer Evaluation (Tilbury)**

MUNICIPALITY OF CHATHAM-KENT  
INFRASTRUCTURE AND ENGINEERING SERVICES  
PUBLIC UTILITIES COMMISSION

TO: PUC Chairperson and Commissioners

FROM: Stephen E. Jahns, B.A.Sc., P.Eng., CMMII  
 Manager, Infrastructure and Transportation  
 Engineering and Transportation Division

DATE: July 4, 2007

SUBJECT: Award of Tender: T07-152  
 Sanitary Sewer Evaluation  
 Community of Tilbury, Municipality of Chatham-Kent

**RECOMMENDATIONS**

It is recommended that:

1. The tender in the amount of \$32,251.56 (\$30,426.00 + GST) be awarded to the firm of 1223254 Ontario Limited operating as Sewer Maintenance Services of Kingsville, Ontario.

**BACKGROUND**

Over the past year, Chatham-Kent PUC has received a number of reports from Engineering and Transportation Division which have outlined the results of sanitary and combined sewer investigations conducted within the Municipality of Chatham-Kent. Such reports have typically been of a reactive nature in that these investigations sought to identify the cause(s) of existing issues being experienced with sewers within a particular community or neighborhood within the Municipality. Such issues may include poor conveyance of flows, continued maintenance issues, and possibly even flooding.

The award of this tender marks a departure from such reactive investigations as the 2007 PUC Lifecycle Sanitary Sewer Budget has been developed to include allowances for the planned and systematic inspection of both sanitary and combined sewers within the urban communities of Chatham-Kent. By phasing the work over a five or six year cycle, this process seeks to investigate the vast majority of such sewer infrastructure.

Tenders were let in June, 2007 and were received and opened on July 3, 2007 by the Purchasing Officer. The results are as presented in the following table:

Table 1 - Tender Results Contract T07-152 Sanitary Sewer Evaluation Community of Tilbury, Municipality of Chatham-Kent		
Rank	Bidder and Location	Tender Amount (including GST)
1	Sewer Maintenance Systems – Kingsville, Ontario	\$32,251.56
2	Capital Commercial Pipe Services Ltd - Hamilton, Ontario	\$42,394.70 <sup>A</sup>
3	Benko – London, Ontario	\$44,022.34

Note A: Corrected value arithmetic error noted but did not result in a change in rank.

Engineering and Transportation Division has reviewed the tenders and notes that they are complete in all respects. All fees associated with this project will be funded through the 2007 PUC Lifecycle Sanitary Sewer Budget. A detailed financial breakdown associated with this project is provided in the Financial Implications section of this report.

**COMMENTS**

In late 2006, Engineering and Transportation Division developed the 2007 PUC Lifecycle Sanitary Sewer Budget which included allowances for the planned and systematic inspection of both sanitary and combined sewers within the urban communities of Chatham-Kent. In late 2006 and early 2007, Engineering and Transportation Division, in dialogue with the PUC and its supervisory staff, undertook to develop the first wave of tenders associated with this work.

The tenders include the following scope of work so as to evaluate and document the existing sewer infrastructure within the study areas:

- flushing of sanitary sewer lines
- cctv inspection to document existing condition
- fog testing
- maintenance hole inspection

Flushing of sanitary sewer lines serves the purpose of cleansing existing lines of any accumulated matter and affords evaluators a clearer view of the sewer infrastructure during evaluation by closed circuit television methods. CCTV inspection also allows the PUC delivery of video or DVD copies of all inspections should they be required for reference in future years.

Fog testing is the process of forcing “fog” filled air into the sewer system. The fog under pressure will fill the line and any connections. Whether in a municipal mainline sewer, residential or industrial system, breaks or illegal taps in the sewer line will allow the fog to escape and surface through the ground or pipe work quickly revealing the source of the problem.

The process of fog testing sees a non-toxic “fog” introduced into the existing system. Additional pressure (only enough to overcome atmospheric pressure) is introduced to facilitate dispersion of the fog throughout the entire system. Provided openings exist for the fog to flow, fog tests are effective, regardless of surface characteristics, soil make-up and depth of sewer lines.

Fog testing is the most cost effective and efficient way to locate infiltration (inflow) and exfiltration (outflow) problems in sewer systems. It is used to find leaks, inflow sources and most restrictive conditions within the sewer lines. Fog testing is also an extremely efficient method for tracking piping systems and other mapping purposes.

The work identified within this contract is located within the area identified in Appendix A and seeks to evaluate 6.6 kilometres of sanitary sewer lines and 95 maintenance holes structures.

Prior to the commencement of any work, the contractor is required to circulate notices to area residents advising them of the work schedule and details regarding the nature of the work to be done.

COMMUNITY STRATEGIC PLAN

The recommendations in this report support the following objectives and strategic directions:

A. Health – We are a healthy community

A1: Provide sufficient capacity to sustain community health and economic growth

B. Economy – We are a prosperous community

B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities

Desired Outcomes/Proposed Activities

- Support new infrastructure investments and modernize existing infrastructure

The recommendations will not adversely impact on the remainder of the Community Strategic Plan.

CONSULTATION

The tenders were developed by Engineering and Transportation Division and consider operational information brought forward by PUC and Public Works Supervisory Staff.

The tenders were opened by the Purchasing Officer and reviewed by the Tendering Committee comprised of the Purchasing Officer, Corporate Services, the Director, Financial Services/Treasurer, Corporate Services and the Director, Engineering and Transportation Division, Infrastructure and Engineering Services.

The General Manager, Chatham-Kent PUC was consulted in the preparation of this report and supports the recommendation.

FINANCIAL IMPLICATIONS

The project summary is set out in the following table.

Table 2 – Financial Implications Contract T07-152 Sanitary Sewer Evaluation Community of Tilbury, Municipality of Chatham-Kent			
A) Project Costs	Low Tender (incl. GST)	\$	32,251.56
	Engineering Design & Inspection	\$	0.00
	Less GST Rebate 6%	-\$	1,825.56
	Project Total	\$	30,426.00
B) Lifecycle Sanitary Sewer Budget Update Summary	Total Approved 2007 Budget	\$	1,600,000.00
	<u>Previously Approved Projects:</u>		
	T07-148 Sanitary Sewer Evaluation Dresden	-\$	14,108.02
	T07-150 Sanitary Sewer Evaluation Ridgetown	-\$	22,024.98
	T07-151 Sanitary Sewer Evaluation Thamesville	-\$	6,733.95
	T07-146 Sanitary Sewer Evaluation Blenheim	-\$	26,696.30
	T07-149 Sanitary Sewer Evaluation Mitchell's Bay	-\$	13,342.25
	T07-153 Sanitary Sewer Evaluation Wallaceburg	-\$	48,213.16
	T07-147 Sanitary Sewer Evaluation Chatham	-\$	105,635.00
	T07-154 Sanitary Sewer Evaluation Wheatley	-\$	21,576.00
	<u>Current Project:</u>		
T07-152 Sanitary Sewer Evaluation – Tilbury	-\$	30,426.00	
Balance Available	\$	1,311,244.34	

Prepared by:

Reviewed by:

Stephen E. Jahns, B.A.Sc., P.Eng., CMM II  
 Manager, Infrastructure and Transportation  
 Division Infrastructure and Engineering Services

Gary Northcott, P. Eng.  
 Director, Engineering and Transportation Engineering and Transportation  
 Infrastructure and Engineering Services

Reviewed by:

Approved by:

Leo Denys, P. Eng.  
 General Manager  
 Infrastructure and Engineering Services

Acting Chief Administrative Officer  
 Gerry Wolting, B.Math,CA

**d) Award of Tender: Sanitary Sewer Evaluation (Wheatley)**

MUNICIPALITY OF CHATHAM-KENT  
 INFRASTRUCTURE AND ENGINEERING SERVICES  
 PUBLIC UTILITIES COMMISSION

TO: PUC Chairperson and Commissioners  
 FROM: Stephen E. Jahns, B.A.Sc., P.Eng., CMMII  
 Manager, Infrastructure and Transportation  
 Engineering and Transportation Division  
 DATE: July 4, 2007  
 SUBJECT: Award of Tender: T07-154  
 Sanitary Sewer Evaluation  
 Community of Wheatley, Municipality of Chatham-Kent

**RECOMMENDATIONS**

It is recommended that:

1. The tender in the amount of \$22,870.56 (\$21,576.00 + GST) be awarded to the firm of 1223254 Ontario Limited operating as Sewer Maintenance Services of Kingsville, Ontario.

**BACKGROUND**

Over the past year, Chatham-Kent PUC has received a number of reports from Engineering and Transportation Division which have outlined the results of sanitary and combined sewer investigations conducted within the Municipality of Chatham-Kent. Such reports have typically been of a reactive nature in that these investigations sought to identify the cause(s) of existing issues being experienced with sewers within a particular community or neighborhood within the Municipality. Such issues may include poor conveyance of flows, continued maintenance issues, and possibly even flooding.

The award of this tender marks a departure from such reactive investigations as the 2007 PUC Lifecycle Sanitary Sewer Budget has been developed to include allowances for the planned and systematic inspection of both sanitary and combined sewers within the urban communities of Chatham-Kent. By phasing the work over a five or six year cycle, this process seeks to investigate the vast majority of such sewer infrastructure.

Tenders were let in June, 2007 and were received and opened on July 3, 2007 by the Purchasing Officer. The results are as presented in the following table:

Table 1 - Tender Results Contract T07-154 Sanitary Sewer Evaluation Community of Wheatley, Municipality of Chatham-Kent		
Rank	Bidder and Location	Tender Amount (including GST)
1	Sewer Maintenance Systems – Kingsville, Ontario	\$22,870.56
2	Capital Commercial Pipe Services Ltd. – Hamilton, Ontario	\$29,892.00
3	Benko – London, Ontario	\$31,030.51 <sup>A</sup>

Note A: Corrected value arithmetic error noted but did not result in a change in rank.

Engineering and Transportation Division has reviewed the tenders and notes that they are complete in all respects. All fees associated with this project will be funded through the 2007 PUC Lifecycle Sanitary Sewer Budget. A detailed financial breakdown associated with this project is provided in the Financial Implications section of this report.

COMMENTS

In late 2006, Engineering and Transportation Division developed the 2007 PUC Lifecycle Sanitary Sewer Budget which included allowances for the planned and systematic inspection of both sanitary and combined sewers within the urban communities of Chatham-Kent. In late 2006 and early 2007, Engineering and Transportation Division, in dialogue with the PUC and its supervisory staff, undertook to develop the first wave of tenders associated with this work.

The tenders include the following scope of work so as to evaluate and document the existing sewer infrastructure within the study areas:

- flushing of sanitary sewer lines
- cctv inspection to document existing condition
- fog testing
- maintenance hole inspection

Flushing of sanitary sewer lines serves the purpose of cleansing existing lines of any accumulated matter and affords evaluators a clearer view of the sewer infrastructure during evaluation by closed circuit television methods. CCTV inspection also allows the PUC delivery of video or DVD copies of all inspections should they be required for reference in future years.

Fog testing is the process of forcing "fog" filled air into the sewer system. The fog under pressure will fill the line and any connections. Whether in a municipal mainline sewer, residential or industrial system, breaks or illegal taps in the sewer line will allow the fog to escape and surface through the ground or pipe work quickly revealing the source of the problem.

The process of fog testing sees a non-toxic "fog" introduced into the existing system. Additional pressure (only enough to overcome atmospheric pressure) is introduced to facilitate dispersion of the fog throughout the entire system. Provided openings exist for the fog to flow, fog tests are effective, regardless of surface characteristics, soil make-up and depth of sewer lines.

Fog testing is the most cost effective and efficient way to locate infiltration (inflow) and exfiltration (outflow) problems in sewer systems. It is used to find leaks, inflow sources and most restrictive conditions within the sewer lines. Fog testing is also an extremely efficient method for tracking piping systems and other mapping purposes.

The work identified within this contract is located within the area identified in Appendix A and seeks to evaluate 4.4 kilometres of sanitary sewer lines and 49 maintenance holes structures.

Prior to the commencement of any work, the contractor is required to circulate notices to area residents advising them of the work schedule and details regarding the nature of the work to be done.

COMMUNITY STRATEGIC PLAN

The recommendations in this report support the following objectives and strategic directions:

## A. Health – We are a healthy community

A1: Provide sufficient capacity to sustain community health and economic growth

## B. Economy – We are a prosperous community

B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities

Desired Outcomes/Proposed Activities

- Support new infrastructure investments and modernize existing infrastructure

The recommendations will not adversely impact on the remainder of the Community Strategic Plan.

CONSULTATION

The tenders were developed by Engineering and Transportation Division and consider operational information brought forward by PUC and Public Works Supervisory Staff.

The tenders were opened by the Purchasing Officer and reviewed by the Tendering Committee comprised of the Purchasing Officer, Corporate Services, the Director, Financial Services/Treasurer, Corporate Services and the Director, Engineering and Transportation Division, Infrastructure and Engineering Services.

The General Manager, Chatham-Kent PUC was consulted in the preparation of this report and supports the recommendation.

FINANCIAL IMPLICATIONS

The project summary is set out in the following table.

Table 2 – Financial Implications Contract T07-154 Sanitary Sewer Evaluation Community of Wheatley, Municipality of Chatham-Kent			
A) Project Costs	Low Tender (incl. GST)	\$	22,870.56
	Engineering Design & Inspection	\$	0.00
	Less GST Rebate 6%	-\$	1,294.56
	Project Total	\$	21,576.00
B) Lifecycle Sanitary Sewer Budget Update Summary	Total Approved 2007 Budget	\$	1,600,000.00
	<u>Previously Approved Projects:</u>		
	T07-148 Sanitary Sewer Evaluation Dresden	-\$	14,108.02
	T07-150 Sanitary Sewer Evaluation Ridgetown	-\$	22,024.98
	T07-151 Sanitary Sewer Evaluation Thamesville	-\$	6,733.95
	T07-146 Sanitary Sewer Evaluation Blenheim	-\$	26,696.30
	T07-149 Sanitary Sewer Evaluation Mitchell's Bay	-\$	13,342.25
	T07-153 Sanitary Sewer Evaluation Wallaceburg	-\$	48,213.16
	T07-147 Sanitary Sewer Evaluation Chatham	-\$	105,635.00
	T07-152 Sanitary Sewer Evaluation Tilbury	-\$	30,426.00
<u>Current Project:</u>			
T07-154 Sanitary Sewer Evaluation – Wheatley	-\$	21,576.00	
Balance Available	\$	1,311,244.34	

Prepared by:

Reviewed by:

\_\_\_\_\_  
Stephen E. Jahns, B.A.Sc., P.Eng., CMM II  
Manager, Infrastructure and Transportation  
Division Infrastructure and Engineering Services

\_\_\_\_\_  
Gary Northcott, P. Eng.  
Director, Engineering and Transportation Engineering and Transportation  
Infrastructure and Engineering Services

Reviewed by:

Approved by:

\_\_\_\_\_  
Leo Denys, P. Eng.  
General Manager  
Infrastructure and Engineering Services

\_\_\_\_\_  
Acting Chief Administrative Officer  
Gerry Wolting, B.Math, CA

**Moved by Commissioner Vercouteren and seconded by Mayor Hope.**

**“That the tender in the amount of \$111,973.10 (\$105,635.00 + GST) be awarded to the firm of Capital Commercial Pipe Services Limited of Hamilton, Ontario.**

**That the tender in the amount of \$32,251.56 (\$30,426.00 + GST) be awarded to the firm of 1223254 Ontario Limited operating as Sewer Maintenance Services of Kingsville, Ontario.**

**That the tender in the amount of \$22,870.56 (\$21,576.00 + GST) be awarded to the firm of 1223254 Ontario Limited operating as Sewer Maintenance Services of Kingsville, Ontario.”**

**Motion carried**

**4. INFORMATION**

a) Public Meeting – Gregory Drive/Balloon Rd Watelrine

**Moved by Commissioner Vercouteren and seconded by Commissioner Pinsonneault.**

**“To receive the information.”**

**Motion carried**

5. **NEXT MEETING**

The next PUC Commission meeting is scheduled for Monday July 23, 2007 at 3:00 PM in Room 212 at the Civic Centre.

6. **ADJOURNMENT**

**Moved by Commissioner Pinsonneault and seconded by Commissioner Vercouteren.**

**“That the meeting be adjourned at 3:25 PM.”**

**Motion carried**