



Township of

# North Dundas

COUNCIL REPORT	
<b>To:</b>	CAO, Mayor and Members of Council
<b>From:</b>	Angela Rutley
<b>Date of Meeting:</b>	January 11, 2011
<b>Subject:</b>	Water and Sewer Department

## 1. Installation of Cathodic Protection on Well #7 waterline:

In order to receive an extension of our ISF funding agreement for this project, I have to submit a written request for an extension by January 17, 2011. This request must include specific documentation including a council resolution committing to finishing the project and accepting responsibility for any costs incurred beyond the new deadline of October 31, 2011. I anticipate that we will be able to complete the remaining paving by July 31, 2011 so this will not be a problem. The required council resolution is attached.

## 2. Winchester Feedermain, Pumping Station and Reservoir:

The work on the construction of phase 1 – the feedermain is complete. We are scheduled to do a final walk through Friday, January 7<sup>th</sup> to ensure that all deficiencies were addressed. Phase 2 - Construction of the reservoir and pumping station continues according to schedule.

## 3. OSWAP – Phase 3:

The third phase of the Ontario Small Waterworks Assistance Program has been launched. OSWAP-3 will have two intakes. The first intake closes on February 15, 2011 and the second intake closes on February 15, 2012. OSWAP-3 is a merit based capital program that will provide two-thirds of the funding for successful projects. Projects must be completed by December 31, 2014. Eligible projects include water or wastewater capital projects that:

- Reduce the amount of water treated; and/or
- Reduce the amount of wastewater treated; and/or
- Reduce the energy usage in water and wastewater systems.

Some potential projects for North Dundas are:

- Energy efficiency improvements – installing variable frequency drives at Winchester Well #1 & 6 and gas heat at the Winchester Lagoon building
  - Estimated cost \$60,000
- Anode installation and valve replacement to reduce water breaks and leakage
  - Estimated cost \$20,000/yr x 4 years = \$80,000
- Winchester Lagoon EA – study to determine best method to reduce infiltration and improve effluent quality
  - Estimated cost \$100,000 but questionable whether it would be eligible
- Installation of a section of storm sewer to service an area with known sump pump connection in sanitary sewer – reduce infiltration and amount of wastewater treated
  - Estimated cost?

I hope to have further information regarding the last alternative for the Council meeting.

#### 4. Dawley Drive – Municipal Services: Recap of Current Situation

In 2010 municipal water and sewer mains were installed along Dawley Drive. In October, based on discussion with Council, I prepared draft by-law 38-2010 which set the rates and requirements for connection to the systems, a copy of which is attached. The highlights are;

- a) 25 year limit to connect
- b) cost to connect increased by CPI each year
- c) fee can be debentured over a 15 year period
- d) cost per sewer unit for an existing building in 2010 = \$16,862.73
- e) cost per sewer unit for a new building in 2010 = \$17,652.50

The property owners from Dawley Drive voiced their objection to the By-Law.

In November, Howard and I met with four of the Dawley Drive business owners at their request. After a lengthy discussion, the property owners present agreed that the following would be acceptable to them;

- a) 25 year limit to connect
- b) Cost to increase by CPI each year
- c) Fee can be debentured over a 15 year period

**IF** We remove the Main. St, offset of \$4,514.98 that is included in the proposed fee of \$16,862.73/sewer unit for a total fee of \$12,347.75/sewer unit.

I presented their proposal to Council with the following recommendation. If Council accepts the property owner's proposal, the removal of the Main St. offset should only be offered for a limited time, to existing businesses only. For example, businesses must pay the cost in full or enter into a debenture by December 31, 2011 to be eligible for the reduced cost. After that, the full cost of \$16,872.73 plus CPI will apply.

At this point, I am waiting for a decision from Council on whether they would like to use one of the above options or something different. I will then revise the By-Law accordingly and bring it to a future Council meeting.

Prepared by: Angela Rutledge

Approved by: [Signature]



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<b>To:</b>	CAO, Mayor and Members of Council
<b>From:</b>	Angela Rutley
<b>Date of Meeting:</b>	January 11, 2011
<b>Subject:</b>	Water and Sewer Department Supplemental report

## 1. OSWAP – Phase 3:

Analysis of potential projects for North Dundas:

- a) Energy efficiency improvements – installing variable frequency drives at Winchester Well #1 & 6 and gas heat at the Winchester Lagoon building
  - o Estimated cost \$60,000
  - o This will result in energy savings but the total value of the project is low
- b) Anode installation and valve replacement to reduce water breaks and leakage
  - o Estimated cost \$20,000/yr x 4 years = \$80,000
  - o This should result in reduced water breaks but the quantity of water saved will be difficult to estimate and justify
- c) Winchester Lagoon EA – study to determine best method to reduce infiltration and improve effluent quality
  - o Estimated cost \$100,000 but questionable whether it would be eligible
  - o This wouldn't result in any direct energy or water/wastewater savings, the EA is just a study, not the implementation of the recommendation
- d) Installation of a section of storm sewer to service an area with known sump pump connection in sanitary sewer – reduce infiltration and amount of wastewater treated. Two potential locations:
  - 1) Winchester: Howard, Annable, Bailey area
    - a. estimated cost \$160,000 per Road Superintendent, \$295,500 per engineer
    - b. growth in Winchester is faster than in Chesterville
    - c. Bailey St. pumping station, collection line and lagoons all facing capacity issues

- 2) Chesterville: Thompson Road and Faubert Avenue
  - a. Estimated cost \$130,000 per Road Superintendent, \$249,700 per engineer
  - b. Residents in the proposed area are complaining about lack of drainage and a desire to fill in the roadside ditch
  - c. Capacity issue at the pumping station
- o This project would result in a direct decrease in wastewater treated as storm water from sump pumps would be diverted to a new storm water system. This would help address peak wastewater flows that are the greatest concern at the pumping stations.

Recommendation: After considering the merits of the potential projects, the amount of funding requested and the likelihood of being approved, I would recommend that we apply for the installation of a section of storm sewer at a cost of \$300,000. We could start with one of the areas and if the funds allow, proceed to the second area. This would require a Township contribution of \$100,000 that should be budgeted in the roads department and could be charged as a local improvement to the residents in the affected area (as was done with Streeterpete Road in Chesterville).

2. Dawley Drive – Municipal Services

Most of the invoices have been received for this project. For a change, we did not encounter many extras during this project so the project has come in under budget. Our original budget was \$400,000. There are still a few things to be done in the Spring but it looks like the final bill will be approximately \$325,000.

Therefore the cost can be allocated as follows;

\$325,000 project cost  
 - \$53,050 Green Tech contribution  
 \$271,950 outstanding balance  
 -\$100,000 from reserves (water and sewer or Township?)  
 \$171,950 to be allocated  
 Allocate to 20 units (as per Main St. by-law)  
 = \$8,597.50  
 + \$4,514.98 Main St. allocation  
**\$13,112.48/sewer unit**

Prepared by: Angela Rutley

Approved by: \_\_\_\_\_