



## TOWN OF MINTO

DATE: March 21, 2017

REPORT TO: Mayor and Council

FROM: Mark Robertson Wastewater Foreman

SUBJECT: Sanitary Manhole Repair Program

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### STRATEGIC PLAN:

11.2 Continue to operate water treatment and distribution with the highest standards of public safety in mind and according to Provincial requirements using highly trained Town staff, and maintain cross training and enhanced duties to assume responsibility for sewage collection and treatment facilities from Centre Wellington. Maintain both water and sewer facilities using qualified Town staff so long as it is cost effective and efficient to do so.

### BACKGROUND

The 2017 Capital budget includes \$100,000 for Harriston Inflow and Infiltration. Part of that budget is proposed to be allocated to sanitary manhole repair in which benching in the base of the manhole is repaired, lining of the structure is sealed and covers are repaired and patched. The work prevents surface water and groundwater from entering the sewage system creating unnecessarily high flows.



The Town hired Discount Drain to complete manhole repairs in Palmerston beginning in 2012. In 2012 35 manholes were repaired and in 2013 over \$400,000 on this work repairing 133 manholes. The company continued its work in Harriston in 2014 through 2016 when 95 manholes were repaired totaling \$465,000. In 2017 13 manholes have been repaired for \$56,000. This work was sole sourced to Discount Drain because during that period there were no other competitive companies providing a product that was affordable. A map of structures repaired is attached.



In April 2013 Council considered a report looking at other suppliers including Fer-pal, Strataworks and Liquiforce. Fer-pal at the time only re-lined watermain, while Strataworks could supply a lining product for manholes but the Town staff would have to apply that product. Liquiforce had a comparable product to Discount Drain but their cost was nearly twice as high. The Town has continued on with Discount to do this work to some success.

Recently staff became aware of a firm called Specialty Grouting Services out of Mount Forest. They have completed work in places such as Waterloo, Mount Forest and Orangeville who are telling us they are pleased with the quality of the product and its installation. Their preliminary pricing is reasonable which creates an opportunity for the Town to go to competitive bids on this work.

#### **COMMENTS:**

From all indications the sanitary manhole repair program has been very successful for the Town decreasing flows significantly in Palmerston and Harriston (see chart below).

<b><u>Palmerston Flows:</u></b>	<b><u>2016</u></b>	<b><u>2015</u></b>	<b><u>2014</u></b>	<b><u>2013</u></b>
Total flow:	444,986 m3	421,492 m3	525,991 m3	591,779 m3
Average daily flow:	1219 m3/d	1155 m3/d	1,441 m3/d	1,623 m3/d
Peak daily flow:	6816 m3	3938 m3	6,470 m3	6,286 m3
<b><u>Harriston Flows:</u></b>	<b><u>2016</u></b>	<b><u>2015</u></b>	<b><u>2014</u></b>	<b><u>2013</u></b>
Total flow:	552,279.1 m3	511,804 m3	632,126 m3	711,232 m3
Average daily flow:	1596.5 m3/d	1,408.5 m3/d	1,734 m3/d	1,950 m3/d
Peak daily flow:	6147.7 m3	4,115.0 m3	8649 m3	6700 m3

In the fall of 2013 the capacity in Palmerston was increased by 19 infill lots and 98 development lots. In Harriston a 15% increase in available rated capacity has been achieved from 2013 - 2016. The work completed by Discount Drain has been good by all indications. They have been advised that the Town is evaluating another supplier and that a bid process may be needed before further work is assigned.

Staff would like to have Specialty Grouting Service repair on sanitary manhole as a test program to assess their product and work. If the product and company be able to offer a comparable service a proposal request would be prepared and sent for open bid. Staff would plan on Council award in May so this important work can continue this summer.

#### **FINANCIAL CONSIDERATIONS:**

The sanitary manhole repair program is funded from the annual capital budget.

**RECOMMENDATION:**

That Council receives the Wastewater Foreman's March 27, 2017 report Sanitary Manhole Repair Program and approves a test program with Specialty Grouting followed by a proposal request for competitive bids on this work if appropriate.

Mark Robertson, Wastewater Foreman





