



# INFORMATION REPORT

<b>To:</b>	Mayor Stratthdee and Members of Council
<b>From:</b>	Jed Kelly, Director of Public Works
<b>Date of Meeting:</b>	28 March 2017
<b>Subject:</b>	<b>PW 17-2017 2016 Summary Report of the Wastewater System</b>

## INFORMATION

To update Council regarding the recent submission of the 2016 Annual Wastewater Treatment Plant report to the Ministry of Environment and Climate Change (MOECC) and to summarize key aspects within the annual report for Council.

## RECOMMENDATION

THAT PW 17-2017 2016 Summary Report of the Wastewater System be received for information.

## BACKGROUND

The Town is required to submit an annual report to the MOECC prior to March 31 of each year for the previous year's plant operations. Each year this report is prepared by Ontario Clean Water Agency (OCWA) and submitted to the MOECC on the Town's behalf.

## REPORT

In 2016, the St. Marys Wastewater Treatment Plant (WWTP) provided effective wastewater treatment. The following is a summary of information presented within the annual report:

- The annual average daily flow was 3,994.84 m<sup>3</sup>/day, or 72% of the plant's rated design capacity of 5,560m<sup>3</sup>/day;
- The total flow treated at the plant in 2016 was 1,459,176 m<sup>3</sup>;
- Flows treated by the treatment plant increased approximately 4% compared to 2015;
- Operational Difficulties were encountered in 2016 due to high strength effluent loadings;
- 3,894 m<sup>3</sup> of biosolids were hauled from the plant and applied to agricultural lands or to storage;
- Biosolids analysis showed that the biosolids met the quality criteria specified in the Ontario Guidelines for Sewage Biosolids Utilization on Agricultural lands;
- There were no primary or secondary bypass events which took place in 2016;
- There were no formal odour complaints with regards to plant operations received in 2016.
- ECA Discharge limits were met at the facility in 2016 with the exception of the following:
  - March 30, 2016 – Phosphorus of 1.42 mg/L compared to a limit of 1.0 mg/L;
  - July 28, 2016 – Phosphorus of 2.26 mg/L compared to a limit of 1.0 mg/L;
  - September 27, 2017 – Daily Ammonia of 9.0 mg/L compared to a limit of 6.0 mg/L.

- One (1) spill occurred at the facility on April 4, 2016 where an estimated 1 cubic metre of mixed liquor was released to the surrounding ground. Leak was the result of a hole in the bottom of the return activated sludge tank.

## **SUMMARY & IMPLICATIONS**

There are no implications related to the submission and review of the 2016 Annual Report for the Wastewater Treatment Plant. Staff time allocated for the preparation and review of the report was allocated for as part of the 2017 annual budget.

Exceedances reported in 2016 were related to a variety of conditions such as high flows, equipment failures, etc. It is the Town's responsibility to operate and maintain the works such that concentrations do not exceed the discharge limits. Municipal by-law discharge limits assist the Town in maintaining the facility but need to be verified for compliance and subsequent enforcement, if necessary.

## **OTHERS CONSULTED**

Jed Kelly, Director of Public Works – Town of St. Marys  
Brent Kittmer, CAO / Clerk – Town of St. Marys  
Renee Hornick, Operations Manager – Ontario Clean Water Agency

## **ATTACHMENTS**

1. 2016 Summary Report for the Wastewater Treatment Plant

Respectfully submitted,



Dave Blake, C.E.T.  
Supervisor of Environmental Services



Brent Kittmer  
CAO / Clerk