

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON FEBRUARY 7, 2017</b>
<b>FROM:</b>	<b>JOHN LUCAS, P.ENG. DIRECTOR - WATER AND WASTEWATER</b>
<b>SUBJECT:</b>	<b>2016 MINISTRY OF THE ENVIRONMENT AND CLIMATE CHANGE INSPECTION REPORT FOR THE CITY OF LONDON WATER DISTRIBUTION SYSTEM</b>

### RECOMMENDATION

That on the recommendation of the Director - Water and Wastewater, this report regarding the findings of the 2016 Ministry of the Environment and Climate Change Inspection of the City of London Water Distribution System **BE RECEIVED** for information.

### PREVIOUS REPORTS PERTINENT TO THIS MATTER

[“Ministry of the Environment and Climate Change Inspection Report for the City of London Water Distribution System - 2014”, Civic Works Committee, February 3, 2015, Agenda item #7.](#)

[“2015 Ministry of the Environment and Climate Change Inspection Report for the City of London Water Distribution System”, Civic Works Committee, February 2, 2016, Agenda item #7.](#)

### BACKGROUND

Municipal drinking water systems in Ontario are held to very high standards. The Ontario Ministry of the Environment and Climate Change (MOECC) ensures that these standards are being met through two separate mechanisms.

For water system management, the MOECC developed a Drinking Water Quality Management Standard (DWQMS) which combined elements of existing ISO 9001 and HACCP standards. Municipalities are required to maintain Quality Management Systems (QMSs) that meet the requirements of this standard. Conformance to the DWQMS is monitored through annual internal and external audits. The 2016 QMS audit results were reported to the Civic Works Committee on November 1, 2016.

Water system operations are governed by provincial regulations, and by the conditions prescribed in MOECC-issued Drinking Water Works Permits and Municipal Drinking Water Licences. The MOECC performs annual inspections to ensure that municipalities are operating water systems in compliance with all applicable legal requirements.

MOECC inspections include staff interviews and facility inspections, as well as a review of operating procedures, water analysis reports, operational records, and staff certification and training records.

This report outlines the results of the 2016 MOECC inspection, which was conducted in December, 2016.

## DISCUSSION

MOECC inspections can be in the form of rigorous “detailed” inspections, or less stringent “focused” inspections. For London’s 2016 inspection, the MOECC conducted a focused inspection, and explained the decision as follows:

*“This system was chosen for a focused inspection because the system’s performance met the ministry’s criteria, most importantly that there were no deficiencies as identified in O. Reg. 172/03 over the past 3 years.”*

On January 10, 2017, the MOECC issued the *City of London Distribution System Inspection Report* for the 2016 inspection. Inspection reports summarize the inspection findings, and list any incidents of non-compliance with regulatory requirements.

One incident of non-compliance was identified, which the MOECC reported as follows:

***“The owner had not ensured that all equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit.***

*During the physical inspection, a review of the current Drinking Water Works Permit (DWWP) #006-201 Issue #3 against the equipment installed in each facility of the system was completed. It was noted that the following alterations were made:*

- 1. The generator at the Fanshawe Wells was removed in September 2016.*
- 2. Three pumps at the Wickerson Pumping Station were removed and replaced.*

*A Form 2 and a Form 3 were completed for the alterations for the system and were available for inspection; however, a Director Notification Form was not completed and submitted as required for the alterations.*

***Action(s) Required:***

*On January 9, 2017, The Owner submitted a Director Notification Form for all alterations made to the system as per Drinking Water Works Permit 006-201 Issue #3.*

*No further actions required.”*

The MOECC has established a recording and reporting framework for any changes that are made to municipal water systems. Depending upon the nature of the system modification, one of the following three forms must be completed prior to commencement of the work:

- Form 1 - Record of watermains authorized as a future alteration
- Form 2 - Record of minor modifications or replacements to the drinking water system
- Form 3 - Record of addition, modification or replacement of equipment discharging a contaminant of concern to the atmosphere

Certain system modifications also require that municipalities complete and submit an additional form called a “*Director Notification Form - Alterations to a Drinking Water System*”, within 30 days of completion of the work.

With respect to the pump upgrades at the Wickerson Pumping Station and the removal of the diesel generator at the Fanshawe Wells, the appropriate Form 2 and Form 3 were completed as required, but staff misinterpreted the MOECC reporting guidelines and did not complete the required Director Notification Forms.

When the inspector informed staff of the oversight, the forms were immediately completed and submitted. As noted in the MOECC report, no further actions are required.

The results of the annual MOECC Inspections are used to generate *Ministry of the Environment Drinking Water System Inspection Rating Records*. Each year, these rating records (or “report cards”) for Ontario drinking water systems are compiled and made available to the public. Due to the single incident of non-compliance reported above, the City of London received a Final Inspection Rating of 96.05% for 2016.

The following summarizes London’s recent Final Inspection Ratings:

- 2012 – 95.83%
- 2013 – 100.00%
- 2014 – 98.98%
- 2015 – 100.00%
- 2016 – 96.05%

The complete 2016 *City of London Distribution System Inspection Report* is available at:

[www.london.ca/residents/Water/Water-System/Pages/Summary-and-Annual-Reports.aspx](http://www.london.ca/residents/Water/Water-System/Pages/Summary-and-Annual-Reports.aspx)

<b>SUMMARY</b>
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The Ontario Ministry of the Environment and Climate Change (MOECC) performs rigorous annual inspections to ensure that municipalities are operating water systems in compliance with all applicable legal requirements.

The MOECC recently completed the 2016 inspection of London's drinking water system, and outlined the findings in the *City of London Distribution System Inspection Report*.

London received a Final Inspection Rating of 96.05% for the 2016 MOECC inspection.

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