

The Corporation of the City of Kawartha Lakes
Council Report

Report Number WWW2018-009

Date: August 14, 2018
Time: 2:00 p.m.
Place: Council Chambers

Ward Community Identifier: Ward Number 8 and 4

Title: Woodville Drinking Water System Provincial Officer's Order Number 1-IXCS7

Description: Woodville Drinking Water System Provincial Officer's Order

Author and Title: Kayla Strackholder, Contract Coordinator

Recommendation(s):

That Report WWW2018-009, "Woodville Drinking Water System Provincial Officer's Order Number 1-IXCS7", be received.

Department Head: _____

Financial/Legal/HR/Other: _____

Chief Administrative Officer: _____

Background:

At the Council Meeting of November 23, 2004 Council adopted the following resolution directing staff to forward all Provincial Officer's Orders regarding water systems to Council:

CARRIED UNANIMOUSLY CR2004-1263

THAT staff be directed to bring forward to Council, upon reception, any and all Provincial Orders regarding water systems.

This report is consistent with this resolution as it provides an overview of the recent Provincial Officer's Report and Order received by the City. As well this report provides the action staff has taken to ensure compliance with the order. The full Provincial Officer's Report and Order is appended as Appendix A. The following provides a summary of the order:

On July 04, 2018, the Ontario Clean Water Agency received Provincial Officer's Order Number 1-IXCS7 for the Woodville Drinking Water System (DWS), owned by The Corporation of the City of Kawartha Lakes.

The Provincial Officer's Report identified a series of events that lead to the non-compliance and the following is a summary of the issues the Ministry of the Environment, Conservation and Parks (formerly the Ministry of the Environment and Climate Change, MOECC) identified in their Report:

On May 8, 2018 the Ministry of the Environment, Conservation and Parks (the Ministry) met with Ontario Clean Water Agency (OCWA) personnel to conduct a compliance inspection of the Woodville Drinking Water System. During the inspection it was identified that the cartridge filters installed, may not have met the recently developed ANSI/NSF Standard 53 certification that was a requirement as per Schedule E of the Municipal Drinking Water License (number 141-115).

On May 23, 2018 the Ministry requested that OCWA contact the filter manufacturer to confirm if the filters installed meet the NSF 61 equivalence (which is a further standard in addition to NSF Standard 53).

On June 15, 2018, OCWA and the filter manufacturer confirmed that the filters installed did meet NSF 61 equivalence however, are not NSF 53 certified. The filters need to meet the new NSF certification in order to prove they are capable of disinfecting water. It is a requirement under Schedule 1 of O.Reg. 170/03, to provide properly disinfected water at all times to users. Therefore, the Ministry believed it was warranted to advise OCWA to report to the Health Unit and the Spills Action Centre that the water may not be disinfected to the new NSF standard and corrective actions were immediately implemented by the City and OCWA. Until sufficient filters were installed, OCWA obtained verification samples

to confirm the water was safe to drink which the results confirmed as bacteria levels were not found to be present. Also to further ensure the water was safe to drink OCWA increased the free chlorine residual to provide further disinfection and increased the amount of bacteriological samples collected.

The Provincial Officer ordered that cartridge filters be replaced with the NSF Standard 53 (or equivalent) certified filters by no later than July 27, 2018. They also required that detailed documentation be provided indicating the corresponding specifications.

Rationale:

On July 6, 2018, OCWA provided the City and the Ministry with their response to the Provincial Officer's Order. They confirmed that the required NSF 53 certified filters were installed and had attached the documentation requested to validate the response. A copy of OCWA's resolution is appended as Appendix B. OCWA was using the proper filters previously, however their last shipment of filters did not have the NSF 53 certification. The correct NSF 53 filters had been previously ordered and installed at the facility however; the supplier had shipped the wrong ones. The filters were the exact same as the NSF 53 filters with the exception of the part numbers being off by one letter and not having gone through the standard testing for of the NSF 53 requirements, and therefore not being certified. It should be noted that during the time that the improper filters were installed, there was no negative health impacts to the consumers and water was safe to drink. Bacteriological sample results support that the filters that were in installed still met the drinking water quality standards. OCWA will be reviewing/updating their procedures to provide staff sufficient training to prevent a future occurrence.

OCWA has confirmed that they have thoroughly inspected all other facilities, which they operate for the City, to ensure that they are meeting the proper NSF 53 or equivalent filters, and/or are meeting the log removal credits required.

During their investigation two other drinking water facilities were identified to be potentially affected by the new requirement for NSF 53 certified cartridge filtration for log removal; Manorview (Bethany) and Western Trent/Palmina Drinking Water Systems. It was later determined that the cartridge filters at Manorview DWS are not required to be NSF 53 certified, as log removal credits are being achieved from UV disinfection in addition to chlorination at the facility.

For the Western Trent/Palmina Drinking Water System (DWS) the requirement for NSF 53 certified cartridge filtration is still under review by the Ministry's Environmental Assessment and Permissions branch. The reason that Western Trent/Palmina DWS may be interpreted differently by the Ministry with regards to filtration certification is that the two systems have different components to their treatment process, such that the Western Trent/Palmina System may not require the same level of filtration as the Woodville System. Sampling has indicated that Western Trent is consistently safe to drink, however similar to Woodville additional sampling will be undertaken until the Ministry confirms the method of filtration/log removal which is required. City staff,

OCWA and the Ministry are working together and discussing recommendations to ensure compliance at this facility.

Other Alternatives Considered:

No other alternatives may be considered outside of the stipulated requirements within the Provincial Officer's Order, in order to comply with applicable legislation to reduce liability to the City.

Financial/Operation Impacts:

No financial impacts to consider. The Provincial Officer's Order was addressed to OCWA and no fines were associated with the Order.

Relationship of Recommendation(s) To The 2016-2019 Strategic Plan:

This Report is consistent with Council Adopted Strategic Plan in that it contributes to the following goals:

- Goal 2 – An Exceptional Quality of Life
- Goal 3 – A Healthy Environment.

These goals are reflected by our efforts to provide safe drinking water that is essential for the quality of life of residents and visitors. We will continue to work with OCWA and the Ministry to ensure compliance with the Safe Drinking Water Act and associated regulations.

Consultations:

Director, Public Works
Manager, Environmental Services
Supervisor, Water and Wastewater Operations

Attachments:

Appendix A – Woodville Drinking Water System POO Number 1-IXCS7



Woodville Drinking
Water System POO Nt

Appendix B – OCWA Resolution Woodville WTP POO 1-IXCS7



OCWA Resolution
Woodville WTP POO 1

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Department Head: Bryan Robinson