

THE CORPORATION OF THE CITY OF SARNIA
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ENGINEERING AND OPERATIONS DIVISION

OPEN SESSION REPORT

TO: Mayor and Members of Council

FROM: David Jackson, General Manager of Engineering and Operations

DATE: March 1, 2021

SUBJECT: Drinking Water Distribution System – Annual Summary Report

Recommendation:

For Council's Information

Background:

Under the Safe Drinking Water Act, O. Reg. 170/03, Schedule 22, City Council must be informed annually by the operators of their water distribution system on the status of the system. A summary report is prepared to highlight and expand upon the major points of the Annual Report which is attached to this report, posted on the City of Sarnia's website and is also available in the Public Works Division office at 651 Devine Street.

Comments:

This summary report is prepared for City Council as owners of the "Drinking Water System" in accordance with Schedule 22 of O. Reg. 170/03 and informs City Council that the Sarnia Drinking Water Distribution System:

- a) is owned by the Corporation of the City of Sarnia and is located within the Municipality of the City of Sarnia.
- b) obtains drinking water from the Lambton Area Water Supply System supply/treatment/storage works with an additional connection fed through the St. Clair Water Distribution System.
- c) is a connected large municipal residential drinking water system as described in Sub Section 5 (I) of O. Reg. 170/03 and does not include water works for the collection, production, treatment, storage or

supply of water other than water distribution works or in-distribution storage works whose sole purpose is water demand management.

Sampling and Monitoring Programs:

During the four quarters of 2020, 1,300 Microbiological test samples, 260 HPC samples, 16 lead samples, 4 THM samples, 4 HAA and 1883 chlorine residual samples were taken on a demand of 10.9 million m³(cubic meters) of water.

Ministry of the Environment Conservation and Parks (MECP) – Annual Inspection

The annual MECP inspection took place on June 22, 2020 and was conducted off site over a two-week period. The City of Sarnia received a 97.88% Inspection Summary Rating Record. The following Non-Compliance with Regulatory Requirements were noted:

Non-Compliance with Regulatory Requirements:

1. The owner/operating authority was not in compliance with the requirement to prepare Form 1 documents as required by their Drinking Water Works Permit during the inspection period.

Action(s) Required:

To ensure Form 1s are prepared as prescribed, the owner/operating authority of the Sarnia Distribution System is required to develop a tracking number/system for all Form 1s and a list of all watermain projects describing whether the project was exempt from approval, covered under a Form 1 or covered under a Schedule C application. A copy of the tracking system is required to be provided to the undersigned by September 31, 2020.

All Non-Compliance actions required of The City of Sarnia were corrected by the deadline.

Lead Testing

A lead testing program is in progress as per the requirement by O. Reg. 170/03 s. 15.1. Sarnia remains under the relief from sampling requirements whereas distribution system sampling only is required. There were two sample periods in 2020 with a total of 16 sampling points in the distribution system. There were no lead exceedances within the Sarnia distribution system. The City of Sarnia replaces lead services that are encountered during reconstruction projects and repair and maintenance operations.

**Table 1 - Volume Record of the Lambton Area Water Supply System
January 1, 2020 - December 31, 2020**

Month	Volume (cubic meters)
January	776,102
February	727,623
March	774,972
April	747,172
May	919,009
June	1,158,038
July	1,391,997
August	1,145,092
September	961,960
October	805,309
November	754,089
December	749,016
2020 Year Total	10,910,387
2019 Year Total	10,691,693

Drinking Water Quality Management Standard (DWQMS)

The Drinking Water Quality Management Standard is the Quality Management Standard approved under s. 21 of the Safe Drinking Water Act, 2002 (SDWA), and complements this legislative and regulatory framework by endorsing a proactive and preventive approach to assuring drinking water quality. This approach includes consideration of elements that are fundamental to ensuring the long-term sustainability of a Drinking Water System.

The DWQMS completes a surveillance audit (selected elements of the DWQMS) once every year and a reaccreditation audit (all elements of the DWQMS) once every three years.

SAI Global conducted the surveillance audit on December 9. The results of the audit were that there were no major or minor non-conformances and only one Opportunity for Improvement (OFI) was noted.

The following opportunity for improvement has been identified:

- Element # 13 - Consider referencing the supplier list as contained in the Public Works

The recommendation was implemented immediately.

Consultation:

The annual report has been posted on our website to fulfill a requirement of the Safe Drinking Water Act. The annual report is attached to this report.

Financial Implications:

There are no financial implications from this report. All costs associated with the supply, testing and reporting of the water system are included in the 2021 operating budget.

Reviewed by:

David Jackson

General Manager of Engineering and
Operations

Approved by:

Chris Carter

Chief Administrative Officer

This report was prepared by Mark Suknandan, Environmental Compliance Coordinator.

Attachment: 2020 Water Distribution Report Annual - City of Sarnia