



The Corporation of the Town of LaSalle

Date	March 7, 2018	Report No:	PW-WWC-02-18
Directed To:	Water/Wastewater Committee	Attachments:	
Department:	Public Works	Policy References:	
Prepared By:	Lena Petros C.E.T. – Manager of Water/Wastewater		
Subject:	Summary Report for 2017		

RECOMMENDATION:

That the committee and Municipal Council to receive the Summary Report for 2017 as per Schedule 22 of the Ontario Regulation 170/03 requirement for LaSalle Water Distribution System.

REPORT:

Schedule 1 – Treatment Equipment

The Town of LaSalle Water Distribution System receives its treated water from Enwin Utilities. It has a schedule in which to flush water mains in areas of concern to maintain secondary disinfection. Flushing is done by water staff and automatic water flushers installed in various locations of concern. Areas are flushed until we have measured over 0.20 milligrams per liter chlorine residual and not less than 0.05 milligrams per liter.

Schedule 6 – Operational Checks, Sampling & Testing – General.

This schedule outlines the frequency of sampling, the requirements for chlorine residuals, testing to be carried out at the time the microbiological samples are collected, and the location at which samples are collected and form of sampling to be undertaken.

Also, this schedule outlines how samples are handled, recorded, stipulates the proper containers which are to be provided by the accredited laboratory, labeling of containers, and the time period needed for delivery of samples.

This section of the regulation was successfully complied with for the year 2017.

Schedule 7 – Operational Checks

7.3 - Seven (7) samples of free chlorine residuals are to be taken each week at different locations.

7.5 (1) - This schedule requires the owner of a drinking water system and the operating authority for the system shall ensure that every test required by this schedule is conducted by a certified operator or a water quality analyst.

Total of 1371 Chlorine Residual samples were collected in 2017 by our certified operators.

This section of the regulation was successfully complied with for the year 2017.

Schedule 10. - Microbiological Sampling and Testing

This schedule provides the requirements for sampling & testing of microbiological parameters the number of samples to be taken each month. In this schedule it states if the system serves 100,000 people or less, at least eight distribution samples plus one additional sample for every 1,000 people served by the system, are taken every month with at least one of the samples being taken in each week. Each of these samples are to be tested for Escherichia Coli and Total Coliform and at least 25% of the samples required to be taken under subsection one (1) are tested for general bacteria population expressed as colony counts on a heterotrophic plate count. LaSalle water operators collected at least 40 samples per month, with at least one of the samples taken weekly and tested for Escherichia Coli, Total Coliform, & H.P.C. samples are taken to Caduceon Laboratories which is an accredited lab within the required timeframe.

Total of 500 Escherichia Coli, total Coliform and 157 H.P.C. samples were collected in 2017.

Schedule 13. - Chemical Sampling & Testing

Trihalomethane

13(6) The owner of a drinking water system that provides chlorination shall ensure that at least one distribution sample is taken every three (3) months, from a point in the drinking water system that is likely to have an elevated potential for the formation of trihalomethanes. Consecutive THM samples were collected on Jan 16 2017, Apr 18 2017, Jul 17 2017 and Nov 21 2017 with an average value of 18.4 µg/L.

Schedule 15.1 – Lead

The system is exempt from plumbing and distribution lead sampling. However, 8 distribution samples were collected and tested for Alkalinity (79-88 mg/L as CaCO₃) and pH (7.0-7.37).

Schedule 16. Reporting Adverse Test Results and Other Problems

If a sample collected and tested indicates an adverse result as outlined in the regulations, the owner of a drinking water system must report the result to the Medical Officer of Health and the MOE Spills Action Center. If an observation, other than an adverse test results indicates that a drinking water system is directing water that may not be adequately disinfected to users of the water system, the observation must be reported to the Medical Officer of Health and the Spills Action Center of the MOE.

If a report is required under this section, an immediate report must be provided to a medical officer of health by speaking directly to a person at the Medical Officer of Health office or a person designated to be on call. In addition, an immediate report must be provided to the Ministry of the Environment by contacting the Ministry's Spills Action Center.

These verbal reports of adverse water conditions must be verified by written notice within 24 hours to the Medical Officer of Health and the Ministry of Environment specifying the nature of the adverse results, actions being taken or observation and what corrective action is being taken.

Within seven days of resolution of a problem, a follow up written notice is to be provided outlining the resolution that gave rise to the adverse result report.

Total of 2 adverse samples were reported. These were resolved by flushing and re-sampling the water.

Schedule 17. Corrective Action

This schedule outlines required corrective action to be followed with the determination of an adverse water result requiring notification.

In all cases the required action was followed as directed by the Medical Officer of Health.

Schedule 22. Summary Reports for Municipalities

The owner of a drinking water system shall ensure that, not later than March 31st of each year a report is prepared in accordance with subsections (2) and (3) for the preceding calendar year and is given to the Municipal Council. The report to include a summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.

1) Total Town Consumption for the year based on Enwin Utilities Sales = 3,270,594 m³

January	253,194
February	220,085
March	247,889
April	231,128
May	269,253
June	353,032
July	399,443
August	395,340
September	191,937
October	275,437
November	225,941
December	207,915

2) Monthly Average = 272,549.50 m³

3) Maximum Daily Flow = unavailable

Respectfully Submitted

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Manager of Water/Wastewater



Reviewed by:

✓ CAO L	Treasury	Clerks	Public Works PM	Planning	Cult. & Rec	Building	Fire
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