



The Corporation of the Town of LaSalle

To: Members of the Water and Wastewater Committee

Prepared by: Lena Petros, Manager of Water and Wastewater

Department: Public Works

Date of Report: March 10, 2021

Report Number: PW-WWC-2021-01

Subject: Summary Report for 2020

Recommendation

That the report of the Manager of Water and Wastewater dated March 10, 2021 (PW-WWC-2021-01) regarding Water Summary Report for 2020 be received.

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 2020.

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 1436 Chlorine Residual samples were collected in 2020 by our certified operators.

This section of the regulation was successfully complied with for the year 2020.

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 41 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 541 Escherichia Coli, total Coliform and 156 H.P.C. samples were collected in 2020.

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 in each calendar quarter, 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 7 2020, Apr 6 2020, Jul 6 2020 and Oct 5 2020 with an average value of 17 µg/L.

Haloactic acids

13-6.1 The owner of a drinking water system that provides chlorination or chloramination and the operating authority for the system shall ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water system's distribution system, or plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of haloacetic acids.

Consecutive Haloactic acid samples were collected on Jan 7 2020, Apr 6 2020, Jul 6 2020 and Oct 5 2020 with an average value of 5.73 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 (69-86 mg/L as CaCO₃) and pH (6.69-7.07).

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 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.

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, Conservation and Parks 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 the Environment, Conservation and Parks 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.

No adverse samples were reported 2020.

Schedule 17. Corrective Action

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

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 3,502,690 m³
 - January 246,079
 - February 181,605
 - March 224,781
 - April 217,782
 - May 267,763
 - June 485,377
 - July 459,058
 - August 393,096
 - September 362,809
 - October 242,489
 - November 226,488
 - December 195,363
- 2) Monthly Average = 291,890 m³
- 3) Maximum Daily Flow = unavailable

Consultations

Not Applicable.

Financial Implications

Not Applicable.

Prepared By:

A handwritten signature in black ink, appearing to read 'Lena Petros', with a stylized, cursive script.

Manager, Water and Wastewater

Lena Petros, C.E.T.

Link to Strategic Goals

1. Enhancing organizational excellence - Not Applicable
2. Strengthen the community's engagement with the Town - Not Applicable
3. Grow and diversify the local economy - Not Applicable
4. Build on our high-quality of life - Not Applicable
5. Sustaining strong public services and infrastructure - Not Applicable

Communications

Not Applicable.

Notifications

Not Applicable.

Report Approval Details

| | |
|----------------------|------------------------------|
| Document Title: | Summary Report for 2020.docx |
| Attachments: | |
| Final Approval Date: | Mar 11, 2021 |

This report and all of its attachments were approved and signed as outlined below:



Deputy Chief Administrative Officer

Peter Marra



Chief Administrative Officer

Joe Milicia