



CITY OF WEYBURN

Annual Water Treatment Report

July 13th, 2020

To: Mathew Warren, City Manager
From: Jennifer Wilkinson, Director of Engineering
Subject: 2019 Annual Water Treatment Report

Introduction:

The Waterworks and Sewage Works Regulation states that at least once a year, every permittee of a waterworks supplying water intended or used for human consumptive or hygienic use shall provide consumers supplied by the waterworks with a notification of:

- a) The quality of water produced or supplied by the water works in comparison with levels set out in these regulations;
- b) The permittee's compliance with sample submission requirements described in the permittee's permit

The City of Weyburn's Public Water Treatment System Annual Report for 2019 summarizes the water utility's ability to produce safe potable water and comply with provincial regulations.

Summary:

The City of Weyburn Water Treatment Facility with two trains (Plant 100 and Plant 200), is a large municipal Residential Class 4 chemically assisted filtration plant capable of delivering approximately 10,000 cubic meters of treated water to the community each day.

The City has a population of 10,679 according to the 2016 census, based on 2016 data. The yearly average estimated daily volume was 4981.5 m³/day. Peak daily flow recorded up to 10,000 m³ in the summer and minimum daily flow recorded in the winter was 3,000 m³.

There were no difficulties encountered in meeting the treated water demand of the City. Water samples collected as required by the permit throughout the process, at varying frequencies, are tested for different parameters to evaluate treatment efficiency and to ensure finished water quality.

Test parameters include:



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1. Critical indicators related to potential acute health effects such as *E. Coli*.
2. Trace contaminants typically associated with chronic long term effects such as heavy metals and synthetic organic compounds.
3. Non-health related parameters that aid in assessing process efficiency or the aesthetic quality of the drinking water such as alkalinity or p-H.

With the exception of marginal exceedance of the drinking water standards for Tri Halo Methane (THMs) and Halo Acetic Acid (HAAs) concentration, all test results from 2019 met the stringent requirements of the Saskatchewan Drinking Water Quality Standards.

Recommendation:

It is recommended that Council approve the City of Weyburn's Public Water Treatment System Annual Report for 2019 as presented.