

STAFF REPORT

Department: Environmental Services & Special Projects

Date: March 7, 2024

Item: Annual Drinking Water Report

Recommendation: Be It Resolved That: Council Receive the Annual Drinking Water Report for 2023.

Background:

- The Annual Drinking water report must be presented to Council by March 31st in every calendar year. The contents of the report are legislated by various Acts and Regulations, see cover letter for greater detail.

Analysis:

- Section 3 of the report discusses the amount of water treated and pumped by the municipality. The section highlights the overall operational performance of the plant and is operating at 57% of the capacity. This information is important when considering development and its impacts on the treatment plant.
- The Municipality scored 100%, meaning no issues were identified.
- In the section "System Failures and Corrective Action", page 4, identifies the steps/action taken with regard to non-compliance issues that were identified in 2022 and confirms that the corrective action was completed.
- Page 5 of the report identifies an Adverse Water Quality Incident (AWQI) process upset incident on February 1, 2023 resulting in a health advisory. A chemical feed line was blocked, preventing the additive of chemical that creates a sludge blanket that filters water as it passes through it. Without the chemical additive, the sludge blanket was lost resulting in some unfiltered water passing through the treatment process. The chemical blockages were removed, the sludge blanket reestablished, disinfection was completed to review if the necessary log removals were achieved.
- The remainder of the report identifies all the testing results for the year, no exceedances were detected.



Interpreting the sample results:

Mg/liter = 0.001/liter or 1 part per million. For perspective, chlorinated water leaves the treatment plant in a range of 1.0-1.5 mg/liter. The average home receives their water at the tap at 0.5-0.7 mg/liter. An Adverse water quality in the distribution system 0.05mg/liter. Pool water is about 4mg/liter.

Ug/liter = 0.000001/liter or 1 part per billion
MDL=Minimum Detection Limit
MAC= Maximum Acceptable concentration
TW= Treated Water

Existing Policy: Council to receive the Annual Drinking Water Report before March 31st.

Strategic Goal: Excellence in Government

Financial Commitment: none

Budgeted: Yes No

Implementation: [Click or tap here to enter text.](#)

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CAO/Clerk: Joseph Burke

Approval of Recommendation: Yes No

Comments: