



Subject: DWQMS Third Quarter Report

Report to: Thorold City Council

Recommendations

1. That Report PWCS 112-2024 **BE RECEIVED** for information purposes.

Key Facts

- The purpose of this report is to keep Council, (owners) informed and updated with the status of the drinking water system(s)
- There was one adverse drinking water sample within the third quarter
- The drinking water system(s) are operating proficiently

Budgetary Status

N/A

Analysis

In accordance with the City's Drinking Water Systems Operations and Maintenance Manual, Staff is required to provide Council, owners of the system, quarterly reports of all "adverse water quality incidents" and the review of completed "Daily Log Sheets".

Quarterly and Annual reports help council obtain data on the City's water infrastructure and allows for more educated decisions when dealing with water issues. Any action required is described in recommendations above, most reports are informational only.

As always, additional data can be requested from staff and provided to council at any time.

Drinking water samples are taken on a weekly basis in accordance with Ontario Regulation 170/03. Daily Log Sheets are to be completed by designated operators at the end of each shift in accordance with Ontario Regulation 128/04. The following summary report includes the third quarter of 2024 for the period beginning July 1, to September 30, 2024.

Quarter 3

“Adverse Water Quality Incident Summary”

Total Number Drinking Water Samples Collected = 242

Total Number of Adverse Drinking Water Samples = 1

The adverse sample was a result of 1 Total Coliform. Proper procedures were taken to address and resolve the adverse received from the weekly samples. No major issues resulted from the adverse sample and the follow up samples were clear and within specifications deeming the system safe and operable.

O.Reg 170/03, s. 8.3 The owner of a drinking water system that provides secondary disinfection and the operating authority for the system shall ensure that at least two distribution samples are taken each week in accordance with subsection (3.1) and are tested immediately for,

(a) free chlorine residual, if the system provides chlorination and does not provide chloramination;

Total Number of Free Chlorine Residual Tests = 353

Total Number of Adverse Free Chlorine Residual Tests = 0

Highest Chlorine Residual Reading = 1.08

Lowest Chlorine Residual Reading = 0.20

(b) for at least five years after each entry in it was made, in the case of a log or record-keeping mechanism that is kept on a loose-leaf or electronic basis or kept on a similarly continuous basis. O. Reg. 128/04, s. 27 (6).

(7) The owner or operating authority shall submit to the Director copies or summaries of the records kept under this section when requested to do so by the Director. O. Reg. 128/04, s. 27 (7).

Total number of completed shifts = 63

Total number of daily log's **NOT** completed or not completed correctly = 0

This report has been prepared for information purposes in accordance with Section E2 of the City's Drinking Water System Operation and Maintenance Manual, Quarterly Reporting Requirements.

Impact on the Environment, Climate Change

There are no known environmental or climate change related impacts to this Report.

Alternatives Reviewed

N/A

Relationship to Strategic Plan

- Vibrant and Prosperous Community
 - Livable Community
 - Community Wellbeing
- Sustainability
 - Sustainable Infrastructure
 - Environmental Sustainability

Other Pertinent Reports

N/A

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