

Report to Council

Report Title: Emergency Chepstow Well Repairs
Prepared By: Gregg Furtney, Director of Operations
Department: Utilities
Date: September 22, 2020
Report Number: UT2020-14 **File Number:** C11UT
Attachments: N/A

Recommendation:

That the Council of the Municipality of Brockton hereby receives Report Number UT2020-14 - Emergency Chepstow Well Repairs, prepared by Gregg Furtney, Director of Operations and in doing so approves that the emergency repair work be funded by the Water budget, Maintenance – Watermains Account.

Report:

Background:

In August and September (2020) Veolia had been noticing that the Chepstow well flow rate had been declining over a number of weeks. Initially the flow rate dropped from a normal day maximum of 2.10 litres per second to 1.70 litres per second. It then dropped further to a maximum daily flow rate of 1.4 litres per second.

Veolia became concerned that the well may fail entirely. A well failure could have meant that the 21 residents of Chepstow that are hooked up to the Municipal Drinking Water System would have been without water for several days.

In consultation with Brockton Staff, it was decided that an emergency repair needed to take place before a complete well failure happened. Had the failure happened, the costs associated with such an emergency repair would have been significant. Instead of being without water for several days, residents were only without water for a few hours. At no time was the quality of safe drinking water ever compromised.

Analysis:

The well repair work consisted of:

1. Removal of the existing pumping equipment
2. A pumping video inspection with a small pump to assess the condition of the well.
3. Flow profile to quantify flow zones in well
4. Furnish and install new pumping equipment (Pump, motor, wire, well seal & sounding tube)
5. Disinfect well and pumping equipment

6. Complete a multi-rate step test to determine well and pumping equipment performance after chlorine contact time has elapsed.
7. Review pumping records and water levels and compare with historical records
8. Provide a report documenting the inspection that includes a copy of the video survey.

Veolia was able to obtain two (2) quotes for the emergency repair work, as directed by Brockton's Procurement Policy:

1. Lotowater Technical Services Inc. = \$15,745 + HST
2. W.D. Hopper and Sons Ltd = \$12,448 + HST

In consultation with Brockton Staff, Veolia proceeded with the quote from H.D. Hopper and Sons Ltd. The work was completed on Tuesday September 15th and Wednesday September 16th, 2020. Both Veolia staff and Brockton staff were very pleased with the repair work.

Sustainability Checklist:

What aspect of the Brockton Sustainable Strategic Plan does the content/recommendations in this report help advance?

- | | |
|---|-----|
| • Do the recommendations help move the Municipality closer to its Vision? | Yes |
| • Do the recommendations contribute to achieving Cultural Vibrancy? | N/A |
| • Do the recommendations contribute to achieving Economic Prosperity? | N/A |
| • Do the recommendations contribute to Environmental Integrity? | Yes |
| • Do the recommendations contribute to the Social Equity? | Yes |

Financial Impacts/Source of Funding:

- Do the recommendations represent a sound financial investment from a sustainability perspective? Yes

Staff recommend that emergency repair work on the Chepstow Well be taken from the Water budget, account Maintenance – Watermains. The cost of the emergency repair work was \$12,448 plus HST.

Reviewed By:



Trish Serratore, Chief Financial Officer

Respectfully Submitted by:



Gregg Furtney, Director of Operations

Reviewed By:

A handwritten signature in black ink, appearing to read "Sonya Watson", with a long, sweeping horizontal line extending to the right.

Sonya Watson, Chief Administrative Officer