



**Spencerville Pumping Station # 1
Upgrades
2025 Budget**

Spencerville Pumping Station# 1 Upgrade

Executive Summary

Spencerville Pumping Station # 1 was commissioned in 1989. The station utilizes two 5 horsepower (HP) Myers pumps to transmit untreated sewage to the Spencerville Stabilization Ponds for treatment. The Myers pumps are frequently being serviced and replaced due to wear and plugging. This project was scheduled for 2026 however due to the frequency of repairs the project has been moved to 2025. At the September 30th Council meeting, the engineering for the upgrade was awarded to Novatech.

Business Need

The pump panel is aging and the pumps are frequently being replaced due to impellor wear and plugging up. The proposed upgrade would include replacing the pump, rail and panel systems to Flygt. Flygt systems are working well in Cardinal and are of superior quality to the Myers system. The impellor design allows for improved performance, fewer blockages and are reliable.

Novatech has completed some preliminary engineering and provided an initial Class D estimate totaling \$206,641.50. We are budgeting \$250,000 for this project as final engineering is not complete and the large variability in cost for bypass operations.

This is a significant project for a small user-based system to finance. Utilizing a portion of the 2025 OCIF funding is recommended. OCIF funding for 2025 is \$475,142. The Spencerville Wastewater Reserve Fund currently has a balance of \$408,597.99.

Options or Solutions Analysis

Option 1: Proceed with issuing tender package and return to Council with results and recommendation.

Option 2: Status quo. Delay project with the increased risk of pump and panel failures.

Financial and/or Non Financial Benefits

Option 1: The total project cost for the project is estimated to be \$250,000. Utilizing \$175,000 from OCIF and the remainder from the Spencerville Wastewater Reserve Fund could be one option depending on the tender results. Upgrading aging infrastructure will ensure we are maintaining a reliable system for the users of Spencerville. This project also aligns with section 4.4 of the strategic plan, maintaining good infrastructure within Edwardsburgh/Cardinal.

Option 2: No initial capital cost.

Risk Analysis

The increased frequency of operator confined space entries to assist in pulling the pumps from the wet well has an increased risk of leading to operator injuries. In addition, pump and panel failures increase the risk of sanitary main backups and overflow events to the South Nation River. Sanitary main backups pose a health risk to residents and can compromise public trust. Overflow events have both a health and environmental impact.

Recommendation

That Municipal Council include the estimated \$250,000 project into the 2025 budget for the Spencerville Wastewater system and authorize staff to issue tender documents requesting submissions from qualified bidders and return to Council with tender results and final recommendation.

Implementation Plan

Issue request for tender documents by January 2025. Council award of successful bidder by end of February. Installation and commissioning in July or August 2025.

Documentation

Novatech's preliminary cost estimate

Acceptance Sign-off

Lead Department

Prepared By: [Eric Wemerman, Chief Water/Sewer Operator] **Date:** 11/12/2024

Signature: *Eric Wemerman*

Approved By: Jessica Crawford, Treasurer **Date:** [month][day], [year]

Signature: _____

Approved By: Sean Nicholson, CAO **Date:** 11/25/2024

Signature: 