



Village of Point Edward

WPCP Collection System

Annual Performance Report

2024

ECA# 036-W601

Owned and Operated

by

The Village of Point Edward

Prepared by:

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Manager of Environmental Services



1 Wastewater Collection Facilities

1.1 General Information

The Village of Point Edward WPCP Collection System of works for the collection and transmission of sewage, consisting of trunk sewers, separate sewers, sewage pumping stations and one (1) Sewage Treatment Plant. The Village of Point Edward operates four (4) sewage pumping stations and is required to report annual performance on all four (4) of the facilities as per the Village of Point Edward WPCP Collection System ECA 036-W601.

This report covers the authorized system consisting of sewers, force mains, and the following four (4) pump stations:

Asset ID	Pump Station	Location
454034	Michigan Pump Station	725 Michigan Ave
454039	Venetian Pump Station	1501 Venetian Blvd
454038	Helena Pump Station	516 Helena
454037	Kendall Pump Station	135 Kendall

The current configuration of the four (4) pump stations conveys all the flow to the Village of Point Edward WPCP indicating that each pump station has adequate capacity.

1.2 Operations / Monitoring Data

All stations are controlled by all necessary equipment and controls to operate. PLC / HMI programming to control and monitor station equipment, level and alarms as well as trending. In general, current pump stations are operating as designed.

Currently the stations have no sewage quality monitoring equipment



Asset ID	Pump Station	Location	Capacity
454034	Michigan Pump Station	725 Michigan Ave	3.0m diameter Well equipped with 2 pumps rated for 25.2 L/s at 8.6m TDH – 2177 m ³ /d
454039	Venetian Pump Station	1501 Venetian Blvd	2 – 3.0m diameter Wells equipped with 2 pumps rated for 45.6 L/s at 13m TDH – 3940 m ³ /d
454038	Helena Pump Station	516 Helena	3.0m diameter Well equipped with 2 pumps rated for 26.0 L/s at 7.3m TDH – 2246 m ³ /d
454037	Kendall Pump Station	135 Kendall	17.3 m ³ capacity well equipped with 2 pumps rated for 18.5 L/s at 6.5 m TDH – 1598 m ³ /d

1.3 Calibration, Maintenance and Repairs

Currently the pump stations do not have equipment that requires calibration. Regular inspections and maintenance are performed by operations staff and tracked using a maintenance system (MESH GO Evo). MESH is used to record routine and preventative maintenance & scheduling. Larger or specialized maintenance activities such as Flushing , well cleaning & CCTV is completed by third party contractors.

- **Pump Stations**

All 4 pump stations have weekly operational checks, annual cleaning, annual inspections and pump maintenance. Michigan Pump Station has a backup generator which has weekly checks and monthly generator run checks. Pumps are pulled and blockages are removed when needed. Pump stations without a stationary generator have a hookup and manual / automatic transfer switches which are used during power outage events. Annual generator service is completed by Toromont.



- **Sanitary Main Inspection and Flushing**

Third party contractors complete required sewer main flushing annually. When required contractors are hired to perform CCTV inspection with video footage and findings reported to Environmental Services Manager.

1.4 Complaints

Currently there have been no complaints received/recorded by the Environmental Services Department for the sanitary sewer collection system that are identified as non private plumbing issues.

1.5 Alterations to the Authorized System

A new replacement pump was installed at the Helena PS due to the failure of an existing pump.

1.6 Overflows and Spills

There were no overflows or spills for the reporting period.

1.7 Summary of Efforts to Prevent Overflows, Spills and Bypasses

The Village of Point Edward has had no overflows, spills or bypasses to report and is continually committed to preventing such events with ongoing and continuous improvement within the collection system and pump stations assets and policies. The capital request to add new permanent diesel backup generators with automatic transfer switches has been added for consideration in the capital budgets.