

# Watermain Replacement Program

WAT24001

AS PART OF THE TAY TOWNSHIP  
2024 CAPITAL BUDGET



OPERATIONAL SERVICES





## Project Summary

The 2024 Watermain Replacement Program was a significant project aimed at upgrading the water infrastructure across various locations. Here's an overview of the project:

### Project Overview:

- Total Length Replaced: Approximately 1.21 kilometers of watermain was replaced in various areas.

### Locations Affected:

- Alberta Street
- Fifth Avenue
- A Section of Second Avenue

### Status:

The program is ongoing, with work completed in 2024, but it will carry forward into 2025 for further work or additional phases to continue improving the water distribution system.

### Purpose and Benefits:

- Improved Water Quality and Reliability: Replacing aging watermains helps reduce the risk of leaks, contamination, and service interruptions, ensuring a more stable and safe water supply.
- Infrastructure Upgrades: The project is part of a larger effort to modernize the community's water infrastructure, providing long-term improvements to both residential and commercial water services.

## ***Alberta Street/Second Avenue***

The watermain replacement project on Alberta Street was an essential upgrade to the area's water distribution system. This replacement project is a key part of the ongoing infrastructure improvement efforts in the area.

### **Project Details:**

- Location: Alberta Street, from Fifth Avenue to Talbot Street
- Existing Infrastructure: The original 150mm cast iron watermain was replaced, which likely had issues with corrosion, leaks, or capacity limitations.

### **Project Timeline:**

- Start Date: October 23, 2024
- Completion and Connection Date: December 17, 2024

### Watermain Replacement work:

- Approximately 700m of 150mm cast iron watermain replaced with new 150mm PVC watermain
- 16 new services and curb stops
- 8 new main valves
- 4 new hydrants
- Pressure testing and chlorination
- Connections to the Algoma Avenue, Second Avenue, Keewatin Avenue, and First Avenue watermains



*Buildup of corrosion in the existing cast iron pipe – this pipe is abandoned and no longer in use.*



*An existing PVC pipe at Alberta Street and Algoma Avenue. No corrosion will be in PVC pipes!*





## ***Fifth Avenue/Hayes Street***

The watermain replacement work on Fifth Avenue is an important infrastructure improvement project aimed at enhancing the water system. A project summary specific to this work will be presented as part of the 2025 Capital Budget, outlining additional details and further steps.

### **Project Details:**

- Location: Fifth Avenue, from Arpin Street to Hayes Street
- Work Completed: Approximately 510 meters of the existing watermain was replaced with a 150mm PVC watermain, improving the durability and efficiency of the water distribution system.

### **Project Timeline:**

- Start Date: October 22, 2024
- Carried Forward into 2025: The project will continue into 2025, including the installation of a new sanitary main and related services.

### Watermain Replacement work in 2024 included:

- New 150mm PVC watermain
- 44 new services and curb stops
- 5 new hydrants
- Connection to the Athabaska watermain
- Connection to the new Alberta Street watermain
- Pressure testing and chlorination





## BUDGET SUMMARY

- 2024 Capital Budget Cost: \$1,610,750
- 2024 Actual Year to Date Cost: \$987,471
- Accrual Cost: \$1,947
- *Remaining amount will be carried forward to 2025*

### Watermain Replacement Cost Breakdown:

○ Alberta/Bell Watermain – valves, hydrants, service parts	\$447,665
○ Fifth/Hayes – watermain, services, gravel	\$441,104
○ Alberta/Bell Earthworks – gravel, trucks, fees	\$54,068
○ Water Model – township data, model, meetings	\$27,465
○ Various Locations Design – drawings, GPS	\$13,823
○ Various Locations Surveying – topography drawings	\$5,291
○ Subtotal	\$898,416
○ Accrual Cost	-\$1,947
<b><u>TOTAL</u></b>	<b><u>\$987,471</u></b>



Township staff using the GPS unit for all curb stops, hydrants, and valves for our Geographic Information System (GIS) data and to create As-Built drawings.



Chlorination testing using swabs on Fifth Avenue