

Woodward Upgrades Project Newsletter

A part of the Clean Harbour Program

October 2018

The Clean Harbour program is a series of projects designed to have a direct impact on the health of our local environment, specifically the water quality of Hamilton Harbour. The largest investment of the Clean Harbour program is a multi-phase plan to upgrade the Woodward Wastewater Treatment Plant. Because the plant is the largest single source of water flowing into Hamilton Harbour, the quality of that effluent has a direct and powerful impact on the harbour's water quality and environmental health. The total budget for the upgrades is \$340 million.



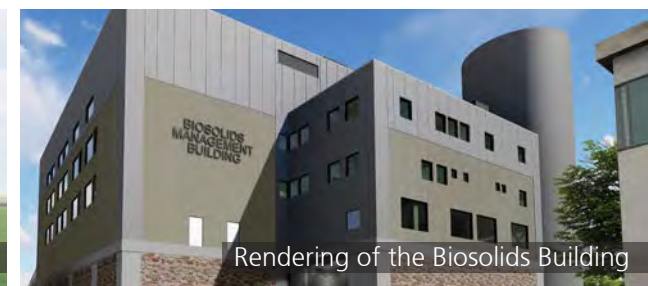
Rendering of the new Wastewater Pump Station



Rendering of the Power Centre



Rendering of the Tertiary Treatment Building



Rendering of the Biosolids Building

Main Wastewater Pump Station

The pump station will replace the existing facility and include:

- The installation of 12 pumps with a total capacity of 1,700 million litres of wastewater per day
- Larger and deeper wet well to mitigate system flooding, provide increased system storage and reduce solids build up during dry weather

To date, excavation of the shaft of the new pumping station is complete, tunneling is near completion for the effluent channel, and preparations are underway for the base slab pour.

Contract Value: \$87,560,000

Progress to Date



Power Centre/Chlorination Upgrades

The Electrical Project will replace the 2 existing substations and standby power building and include:

- Dual 13.8 KV loop installed in ductbanks around the wastewater and water treatment plants, approximately 1.8km in length
- Four - 3 mega watt diesel generators providing a total of 12 mega watts of standby power

To date, excavation and foundations for the Power Centre are complete, installation of duct banks are underway, and site perimeter fencing has been installed.

Contract Value: \$60,886,000

Progress to Date



Tertiary Treatment

The Tertiary Treatment project will add disc filtration to bring the wastewater treatment plant to a tertiary level of treatment, as well as expanding the South Aeration and Clarifier tanks, construction of a new Chlorine Contact Tank (CCT), and improvements to Red Hill Creek (RHC) to facilitate a new Plant Effluent Outfall.

To date, this project has reached a 90% level of Detailed Design and is expected to begin construction in Q1 2019.

Contract Value: TBD

Progress to Date



Biosolids Management

The P3 Biosolids project is for the design, building, financing, operation, and maintenance of a new Biosolids processing facility. This project is funded in part by Infrastructure Canada and will have a 30 year operating term upon completion of construction.

To date, the project has reached a 100% level of design, completed demolition of the old facility, and has begun work on the foundation of the new facility.

- Total Contract Value: \$233,100,000
- Capital Value: \$52,258,276

Progress to Date



Aerial View of Woodward Wastewater Treatment Facility Upgrade Projects

