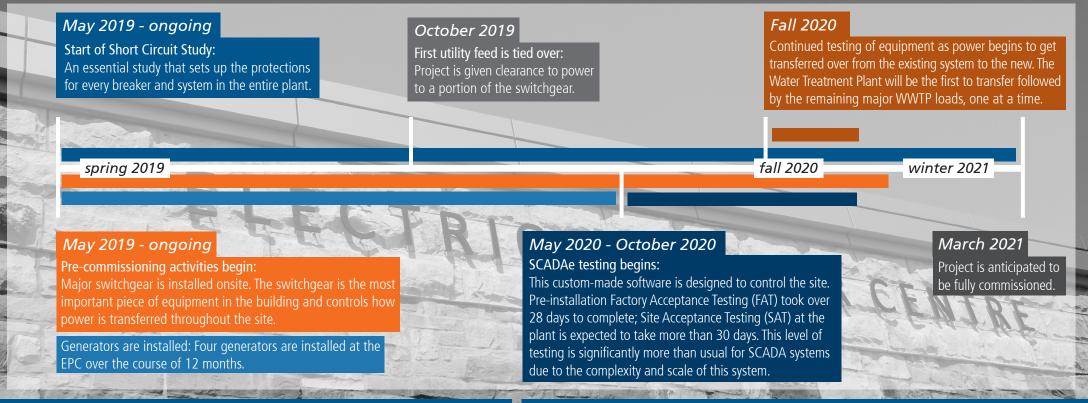
# Woodward Upgrades Project Newsletter

A part of the Clean Harbour Program

# **September 2020**

# **Electrical Power Centre Commissioning is Underway**

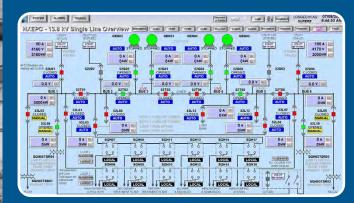
The Electrical Power Center is a complex project involving both the Wastewater Treatment Plant and Water Treatment Plant processes at 700 Woodward Avenue. Commissioning involves many stages and systems that need to be fully tested and demonstrated for operation. Below is a broad overview (at a high level) of some key steps of the commissioning process to get the Electrical Power Centre up and running!





Before the generators can be commissioned, many important auxiliary systems need to be in place:

- HVAC
- Fire Suppression
- Diesel fuel
- Exterior radiators
- Control Systems



SCADA stands for Supervisory Control and Data Acquisition and the 'e' is for electrical. Application screens/ pages of the SCADA system, (left) are referred to as the HMI screen(s), Human Machine Interface. These act as the main interface in which the operator (or electrician operator in SCADAe) monitors and operates the system.



# **Project Updates**



### **Main Pumping Station**

0% 75% 100%

Construction: May 2017 - May 2021

Architectural works including the stone cladding are nearing completion and construction of the roof decking is complete. Work on interior electrical and mechanical installations as well as and final service installation is progressing. Exterior civil works including final grading have begun, and we are continuing with preparations for commissioning.



### **Electrical and Chlorination Upgrades**

0% 88% 100%

Construction: Oct.2017-Jun.2021

With construction of the new Energy Power Centre complete, focus is now on commissioning, with ongoing preparations for power transfer to the new system to be able to disconnect/demolish the existing WTP and WWTP substations.



### **Tertiary Treatment Upgrades**

0% 32% 100%

Construction: May 2019 - Dec 2021

Construction of the structures for Phase 1 of the South Plant upgrades are done, with works now focused on the mechanical and electrical preparations for commissioning the first half of the South Plant. Concrete work continues for the Tertiary Facility, with the structure now above grade, and excavation of the new Chlorine Contact Tank continues.

# **Operational Readiness Team is Back**



As part of the Woodward Upgrades Program, the Operational Readiness initiative was established in 2016 and was created to conduct a thorough risk and gap review of essential work groups and processes such as staffing resources, treatment process dependability and budgetary controls. The group, which is being led by the Woodward Upgrades team, has recently been re-established and includes members from:

- WUP
- Plant Operations
- Plant Maintenance

Utilizing their collective efforts, the Operational Readiness Team will focus on the transition, operations, asset transfer and maintenance of the new equipment and processes.

Specifically, the Team will:

- Develop and schedule a maintenance plan and standard operating procedures for the new Main Pumping Station, the Electrical Power Centre and the Tertiary Building
- Implement preventative maintenance planning
- Rebuild the equipment asset register and update the inventory to streamline the removal of obsolete parts
- Ensure the safe operation of the new equipment and processes.

We are grateful to all the members of the Team and their essential work as part of the Woodward Wastewater Treatment Plant upgrades.