

January 22, 2018  
by KZ (KWL)

### **PROJECT DESCRIPTION AND OVERALL SCOPE (from Project Summary Report)**

In July of 2011, NRRM was directed by the Ministry of Environment (MOE) to extend the outfall pipe for NRRM's wastewater treatment plant (WWTP) because it does not meet regulatory requirements. There were two significant non-compliance issues:

- Relocation of our existing WWTP outfall to the main channel of the Muskwa River (currently discharges on land); and
- The need to install a system to disinfect WWTP effluent (ultraviolet (UV) disinfection system was constructed and commissioned in 2013).

The Asset Management Program noted this as NRRM's highest priority project over the following 5 years. Planning and design of the gravity outfall system has been completed, and construction is set to commence in June 2017.

The scope of this project includes relocation and replacement of the entire gravity outfall system from the WWTP site to the Muskwa River. Work includes the installation of a new outfall diffuser system in the river. This portion of the work is expected to take place in the winter months when water levels are at their lowest and the river is frozen for access.

### **PROJECT UPDATE**

The In-River works commenced with the construction of an ice platform in December 2017. An ice platform thickness of 52" was required to withstand the load of the crane and other major equipment for the duration of construction. Ongoing monitoring of the ice thickness is taking place over the course of this work.

The construction of the coffer dam sheet pile structure started in early January 2018. The coffer dam structure is needed to provide a working space for the construction crew to install the outfall diffuser piping within the Muskwa River. The coffer dam structure is expected to be in place, dewatered and prepared for the next phase of construction by the end of January.

Next steps (dates are subject to change):

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|---------------------------------|--------------------------|
| 1) Boring Pit Excavation:       | Jan. 31 to Feb. 4, 2018  |
| 2) Horizontal Augur Boring:     | Feb. 5 – 19, 2018        |
| 3) Diffuser Installation:       | Feb. 14 to Mar. 22, 2018 |
| 4) Clean-Up and Demobilization: | Mar. 23 – 31, 2018       |