

**NWB Water License Application**  
**Project 303 – QEC Iqaluit Bulk Fuel Storage Upgrade**  
**Executive Summary**

This application is for a water license to perform hydrostatic testing on a new Field Erected Fuel Storage Tank to be constructed at the QEC Power Plant in Iqaluit. There is an existing Fuel Storage Tank Farm at the plant, this project is to expand the capacity of that Tank Farm by constructing a new single tank with a capacity of 5,700m<sup>3</sup>. The location of the new tank shall be approximately 63°45'17.2"N 68°30'24.7"W.

The hydrostatic testing will consist of filling the tank at a rate of 299m<sup>3</sup> / day for a total of 5,700m<sup>3</sup> of water. The intended source of the water shall be a nearby lake adjacent to the Anuri Road sub-division, South-East of the Iqaluit Power Plant. The intended discharge area is the field immediately North West of the Power Plant, where the water will be absorbed by the land and/or feed into the stream adjacent to the plant which runs directly into the ocean. See "Appendix A – Map of Project Undertaking" for more details on the location of the source lake and discharge area. Should the primary source lake (near Anuri Rd. Sub Division) not have sufficient water to supply the entire 5,700m<sup>3</sup> of water, ICL has proposed two additional standby lakes to the North West of the Power Plant as potential supplementary water sources.

The tank will be clean prior to filling and will contain no contaminants, the anticipated "waste water" will be clean and have only contacted steel. The purpose of the testing is to inspect the soundness of all welds and joints in the tank. If a leak is detected the tank will need to be emptied, the affected area repaired, and the testing will need to recommence.

The tentative schedule for the project has the tank's construction being completed by late August 2018, with hydrostatic testing beginning late August / early September. Provided there are no leaks detected the testing should take 21 days.

APPENDIX A - Map of Project Undertaking

