

**2016 Annual Report for TC Licence No. 1BR-RLF1520
Resolute Bay Land Treatment Unit**



Executive Summary

In 2002, Transport Canada (TC) constructed two Land Treatment Units (LTUs) at the Resolute Bay Airport for the treatment of soils excavated from the Former Firefighter Training Area (FTA) and Above Ground Storage Tank (AST) area at the airport (see Figure 1). LTU 1 is divided into 3 zones separated by berms. Zone 1 and 2 contained heavier hydrocarbons while zone 3 contained lighter. LTU 2 is a single cell and contains lighter hydrocarbons. The LTUs received approximately 5,800 m³ of soil from the FTA and the AST area in 2002.

TC applied treatment to the LTUs, based on available funding from year-to-year.

Two smaller LTUs (3&4) are present in the area; however, TC is not the custodian.

In 2015, TC received a Licence from the Nunavut Water Board (NWB) for maintenance and decommissioning activities for the LTUs. TC retained a qualified engineering consultant to complete soil and groundwater monitoring. Analytical results from an accredited laboratory for nine test pits across the two LTUs indicate that one of more the following parameters exceeded the CCME guidelines: BTEX, PHC F1 and/or PHC F2. All soil samples complied with all other parameters, including metals. The six groundwater monitoring wells could not be sampled as the water was frozen.

In 2016, TC retained a qualified engineering consultant to inspect the LTUs and sample the six groundwater wells. After purging, the monitoring wells did not have enough water to collect a sample. The consultant also posted trilingual signage on each well, as required by the NWB licence.

TC has are no immediate plans for site closure and/or decommissioning of the Resolute Bay LTUs, but will continue annual monitoring in accordance with its NWB Licence and keep the NWB apprised of its future plans for ongoing operation and maintenance of the LTUs.



Figure 1. Location of TC-owned LTU 1 and LTU 2 at the Resolute Bay Airport.