

**EXECUTIVE SUMMARY**  
2016 Annual Report for TC Licence No. 1BR-FTA1217  
Cambridge Bay Land Treatment Units

Arcadis Canada Inc. (Arcadis) completed supervision and monitoring activities at the Apron land treatment unit (LTU) and the Fire Training Area (FTA) LTU located on Victoria Island, Nunavut. Between July 25, 2016 and August 5, 2016, Arcadis carried out the following activities: collection of surface water samples from LTU sumps, supervision of tilling of Apron LTU, supervision of dewatering activities at both LTUs, collection of soil samples, groundwater monitoring and sampling program. The consultant also posted trilingual signage on each well, as required by the NWB licence. Kitnuna Project Inc. (Kitnuna), a local contractor from Cambridge Bay, was contracted to perform tilling of the Apron LTU and the sump dewatering activities at both LTUs.

Overall, both LTUs appeared to be in good condition. A potential seepage issue was identified in the FTA LTU, however analytical results suggest that seepage is not likely at this time. Groundwater analytical results do not suggest that the integrity of the LTU's liners and berms have been compromised. Sump water analytical results confirmed that water met the NWB licence requirements for pH, oil and grease, dissolved lead, total zinc and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX), however results indicated that both LTUs have some metal exceedances. Sump water results indicated that poly- and perfluoroalkyl substance (PFAS) were below the Federal Environmental Quality Guidelines (FEQCs) for aquatic receptors in the Apron LTU but above FEQCs in the FTA LTU. Soil analytical results from both LTUs indicated some samples had exceedances of Petroleum Hydrocarbon Fractions (PHCs).

TC has no immediate plans for site closure and/or decommissioning of the Cambridge 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.