

# Long Island Lake

## Recreational Fisheries Management Objectives

<b>Version Date:</b> October 2017	<b>Prepared by:</b> Denyse Gullion	<b>Reviewed by:</b> Marcel Macullo	<b>Approved by:</b> Curtis Brock
<b>Waterbody ID:</b> 5134	<b>Surface Area:</b> 221 (Ha)	<b>Hydrologic Unit Code Name (HUC_8):</b> Dapp Creek	<b>Hydrologic Unit Code (HUC_8):</b> 17030302
<b>Sport Fish Species: Northern Pike, Yellow Perch</b>			
<b>Indigenous Fishery: No</b>			
<b>Environment and Parks Region:</b> Upper Athabasca Region (UAR)	<b>Fisheries Management Zone: Northern Boreal (NB2)</b>		<b>Fisheries Management Office:</b> Athabasca

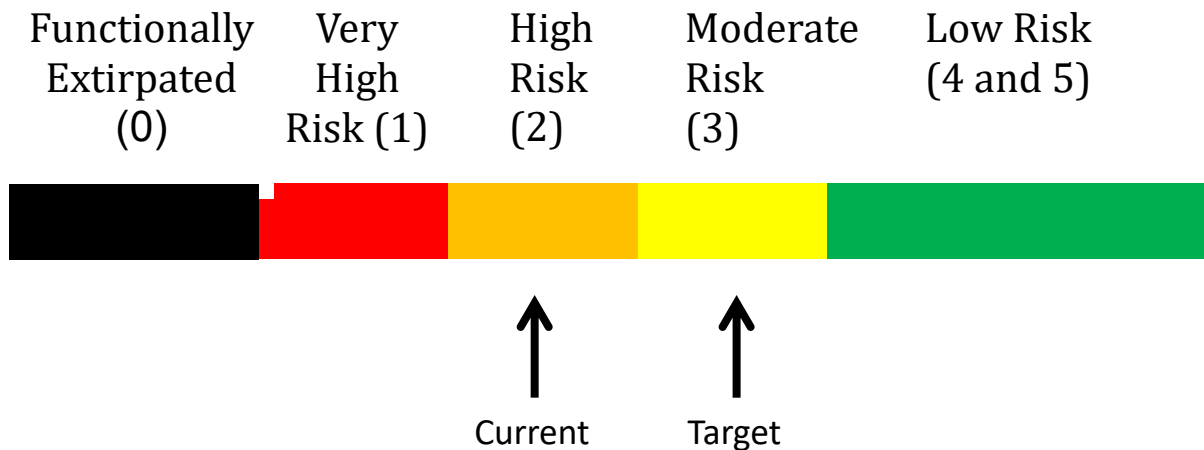
### Background

Long Island Lake is located approximately 40km north of Westlock and 130 km north of Edmonton. It supports a sport fishery for northern pike and yellow perch that receives high angling pressure due to the campground facilities, youth camp, summer village, small subdivision and relatively short distance from the Greater Edmonton area. In 1960s eyed eggs of walleye were introduced into the lake but failed to produce a sustainable population and the walleye became extirpated.

### Section 1. Fish Population Status

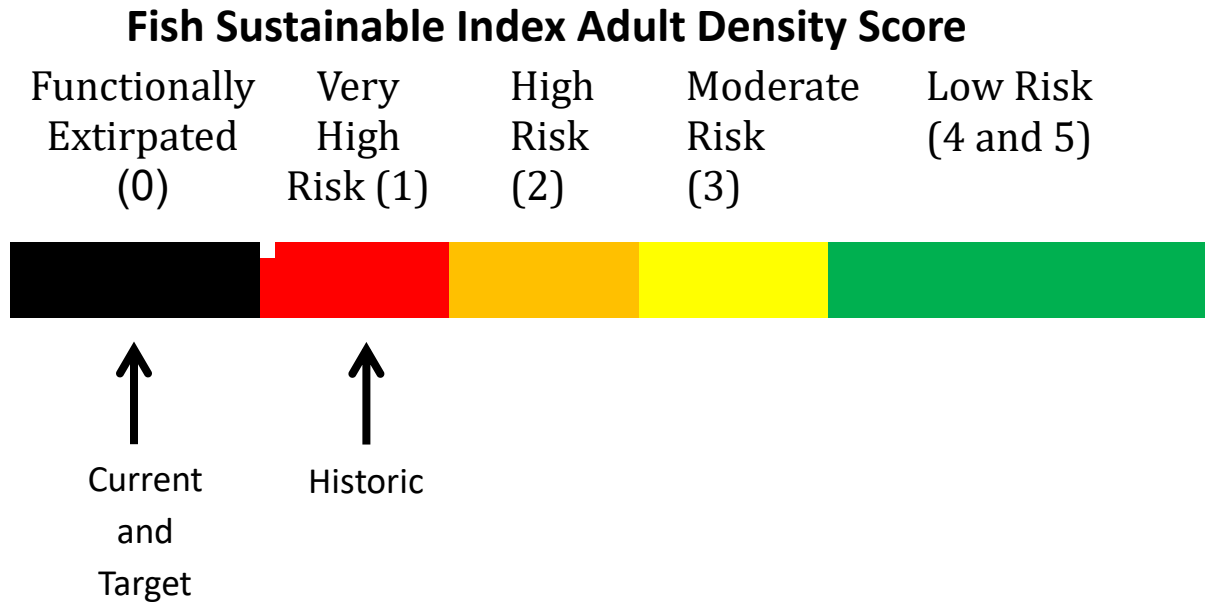
#### Northern Pike – Adult Abundance

#### Fish Sustainable Index Adult Density Score



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**Walleye – Adult Abundance**



**Yellow Perch – Adult Abundance – Undetermined**

**Recreational Fishery Management Objectives and Management Summary:**

The **focal species** for recreational management is **Northern Pike**. The secondary species managed for recreational objectives is Yellow Perch. These sport-fisheries are not directly assessed at intervals, and therefore are passively managed. The **Overharvest Protection Need** is assessed as **Very High**.

**Northern Pike** – The recreational fishery management objective for northern pike is **Sustainable Harvest**. The corresponding FSI score for the current mature density of northern pike was assessed as **Very High Risk** to sustainability. The northern pike population is currently not meeting the status and criteria for the objective of a sustainable harvest fishery. The required management action to maintain this outcome is a **Catch and Release** regulation.

**Yellow Perch** – The recreational fishery management objective being applied is the provincial default (**Sustainable Harvest**). The status of the yellow perch population has not been assessed. The current management action is a regulation of 15 perch, any size.

**Walleye** – Have been extirpated from this fishery and at this time there are no future plans to reintroduce.

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## Management Summary

Management Priority	Species	Overharvest Protection Need	Management Action	Sport Fishing Harvest Regulation
1	Northern Pike	Very High	Recovery	<ul style="list-style-type: none"><li>• 3 &gt; 63cm (2017-18)</li><li>• <b>Catch and Release (Implementation April 1<sup>st</sup>, 2018-19)</b></li></ul>
2	Yellow Perch*	Very High	Maintenance – Sustainable Harvest	15 any size
3	Walleye	Very High	Extirpated	NA

\*Recreational management objectives for Lake Whitefish, Yellow Perch, and Burbot have not been fully developed into management frameworks, and will be subject to change pending on-going work and development. However, general action statements have been listed for these species within the context of relative abundance, catch rates and trends associated with index netting assessments, in relation to the management of these species at a provincial level.